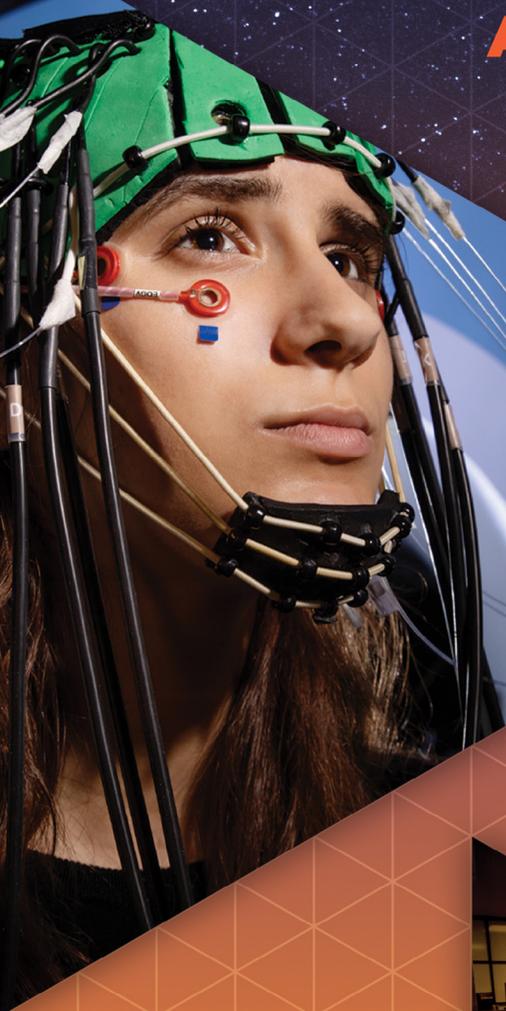


# UNDERGRADUATE RESEARCH WEEK

APRIL 23-29, 2023



# Welcome

## 2023 Undergraduate Research Week

Welcome to Undergraduate Research Week 2023 (URW) and its signature event, the 16th annual Undergraduate Research Symposium. I hope you look forward to this moment as I do, when we can engage with our undergraduate researchers across a diverse array of campus events, witness the enthusiasm and innovation of our students, and celebrate their hard work. The URW program is larger than ever, with more events than we have seen previously, and with a twenty percent rise in the numbers of Symposium presenters. To accommodate the latter's growth, for the first time ever we have added a noon hour poster session—a happy challenge to have!

I continue to be grateful for the continuing support of our undergraduate researchers by our faculty, staff, students, and community partners. The presentations found herein reflect the caliber of our students, the range and diversity of academic disciplines across our campus, and the institutional support and commitment to undergraduate research as an important component of the Illinois experience. As is true of the mentors who support them, our students and their research hold the potential to change the world for the better.

A particular thanks is due the Office of Undergraduate Research team, without whom the planning of such a large-scale event would be impossible: Dr. Chris Holmes, our Associate Director; Kari Darby, our new Coordinator of Research Programs; our Social Media & Communications undergraduate interns – Liv Borawski, a History major, and Melany Romero, a Clinical Psychology Major; and Ellie Lee, our Graphic Design undergraduate intern, a Graphic Design major. We have an incredible team and their hard work is reflected in this URW program.

Finally, many thanks to the Office of the Provost and our Advisory Board for their ongoing support and counsel, and to our Undergraduate Research Ambassadors who continue to make their mark in supporting both their undergraduate colleagues and OUR programming and events.



**Karen Rodriguez'G, PhD**  
Director, Office of Undergraduate Research

## The Office of Undergraduate Research



**Christopher Holmes, PhD**  
Associate Director



**Kari Darby**  
Coordinator of Research Programs



**Liv Borawski**  
Social Media & Communications  
Intern



**Melany Romero**  
Social Media & Communications  
Intern



**Ellie Lee**  
Graphic Design  
Intern

Sign up for the Office of Undergraduate Research e-newsletter to receive occasional emails about research programs, events, and opportunities.

Sign up at:  
[go.illinois.edu/subscribeOUR](https://go.illinois.edu/subscribeOUR)



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# Undergraduate Research Week Events

## Research Workshops - Undergraduate Research Week Edition

All week

The Office of Undergraduate Research (OUR) regularly hosts workshops to support students in their undergraduate research journeys at the University of Illinois. As part of our celebration of Undergraduate Research Week, OUR will be conducting sections of our Getting Started in Undergraduate Research Workshop and Research to Resume Workshops. In collaboration with the National and International Scholarships Program, we are also offering a workshop titled "Where Research Can Take You". We invite you to register and attend these workshops, and as a token of our appreciation, you will receive an OUR laptop sticker and an Illinois-themed Lanyard. For those attending the virtual workshops, you can pick up your items at the Symposium on April 27.

### Getting Started in Undergraduate Research Workshop

During this workshop, we will discuss the various forms of undergraduate research that take place on campus, guide students to develop a plan of action to locate research opportunities on campus and discuss ways to contact faculty research mentors.

**This workshop will take place on Tuesday, April 25 at 11:00 AM.**

For workshop location and registration, please visit: [go.illinois.edu/OURWorkshops](http://go.illinois.edu/OURWorkshops)

### Research to Resume Workshop

During this workshop, we will discuss strategies to successfully communicate research skills and experiences through job, graduate school, and internship application documents.

**This workshop will take place on Tuesday, April 25 at 12:00 PM.**

For workshop location and registration, please visit: [go.illinois.edu/OURWorkshops](http://go.illinois.edu/OURWorkshops)

## Where Can Research Take You?

Congratulations on conducting research and sharing it with the campus community! Now, what's your next adventure? You are invited to hear from the [National and International Scholarships Program \(NIS\)](#) about opportunities to continue your work (and earn funding) or to utilize your research experience as a launching pad to other (funded) opportunities. NIS assists high-achieving students in figuring out their pathways to doing great things; many students find that a nationally competitive scholarship allows them to reach for their loftiest goals. This online, 30-minute power session is designed to help you explore scholarship options that will further support your work.

**The session is open to undergraduates of all majors and will take place on Thursday, May 4, at 11:00 am.**

Register at: [go.illinois.edu/WhereCanResearchTakeYouWorkshop](http://go.illinois.edu/WhereCanResearchTakeYouWorkshop)

## Communication Undergraduate Research Event

Department of Communication

**Wednesday, April 19, 5:00 PM – 6:00 PM;**

**Posters will remain on display until 3:00 PM April 21.**

**Lincoln Hall, Room 3001**

**702 S Wright St, Urbana, Illinois**

Undergraduate Communication students will present their experiences conducting research and their final research projects in the third annual research spotlight event. This event is sponsored by the Department of Communication and the Joe Wenzel Fund.

*Classifying Politics in Online Communities*

**Maxine Ma**, Senior, Communication, LAS  
(Research Mentor: Stewart Coles, Communication)

*Comparing and Contrast Nominal Group Technique*

**Ruiqi Pan**, Sophomore, Communication, LAS  
(Research Mentor: Chandler MacSwain, Communication)

*Career Centers & Personal Branding*

**Joy Wang**, Junior, Communication, LAS  
**Brendan Buckley**, Junior, Communication, LAS  
(Research Mentors: Katherine Bunsold, Communication & Chandler MacSwain, Communication)

*Abortion: Stigma and Disclosure*

**Sydney Turner**, Sophomore, Communication & Psychology, LAS  
(Research Mentor: Megan Jacobs Farnworth, Communication)

*Social and Ethical Information Sources of Student Stakeholders about Emerging Technologies in Agriculture*

**Mag Shou**, Junior, Communication, LAS  
(Research Mentors: Sarah Benevento, Communication & Cabral Bigman-Galimore, Communication)

*The Role of Traumatic Brain Injuries in Romantic Relationships*

**Hadyn Fischer**, Sophomore, Psychology, LAS  
(Research Mentors: Kirsten Pool, Communication & Leanne Knobloch, Communication)

## Illinois Scholars Undergraduate Research (ISUR) Program Research Expo

**Grainger College of Engineering**  
Tuesday, April 25, 4:00 PM – 6:00 PM  
Illini Union Rooms A, B, and C  
1401 W Green St, Urbana, Illinois

The Grainger College of Engineering Illinois Scholars Undergraduate Research (ISUR) Program Research Expo showcases the various science and engineering projects our scholars and their mentors have been working on this year. ISUR is a two-semester, structured, mentored research experience for undergraduate students in science and engineering. Through the learning-by-apprenticeship model, students learn about the research process, develop their research and technical communication skills, and gain experience needed for graduate school acceptance or research in industry.

Under the ISUR umbrella are the following programs: Clare Boothe Luce Research Program, DaRin Butz Foundation Research Program, Semiconductor Research Corporation Undergraduate Research Program (SRC URP), Accelerated Learning and Engineering Research Training (ALERT) Program in Electronic and Cyber Security, and the IBM-Illinois Discovery Accelerator Institute Undergraduate Research Experience (IIDAI URE).

This year, we also have presentations from students in other undergraduate research programs in Grainger Engineering: Promoting Undergraduate Research in Engineering (PURE) and CS Student Ambassadors/Research Scholars (CS STARS).

## Accelerated Learning and Engineering Research Training (ALERT) Program in Electronic and Cyber Security

*Square Patch Antenna*  
**Maximilian Damewood**, Junior, Engineering Physics, ENG

*Next Generation Power Semiconductor: Diamond*  
**Victoria Garcia**, Senior, Agricultural & Biological Engineering, ENG

*Machine Learning-Based Anomaly Detection in UUV Swarms*  
**Emily Grob**, Senior, Electrical Engineering, ENG  
**Nandika Vuyyuri**, Sophomore, Electrical Engineering, ENG

*Use of (Ultra)Wide-bandgap Materials in Power Devices*  
**Aleksai Herrera**, Junior, Electrical Engineering, ENG

*Ultrasensitive Temperature-sensing Intelligent Surfaces for Smart Homes*  
**Teague Mitchell**, Senior, Computer Engineering, ENG

*Anomaly Detection for Road Traffic Patterns*  
**Vivek Thatte**, Junior, Computer Science, ENG

## Clare Boothe Luce Research Scholars

*Advanced Water Purification Methods: Plasma-Based Treatment Against PFAS*  
**Jasmine Dinari**, Senior, Nuclear, Plasma & Radiological Engineering, ENG

*Rethinking Household Tasks for Elders with Soft Robotics*  
**Maya Grant**, Junior, Mechanical Engineering, ENG

*Multiplexed Detection of Protein Sepsis Biomarkers and nCD64 from Whole Blood Samples Utilizing Microfluidic Capture of Hydrogel Beads*  
**Victoria Kindratenko**, Senior, Bioengineering, ENG

*Enhancing Bacterial Secretion of Biotherapeutics*  
**Alexa Mitka**, Senior, Bioengineering, ENG

*Digital Histopathology to Diagnose Breast Cancer*  
**Varshini Muruges**, Sophomore, Bioengineering, ENG

*Design of Polyurethane Actuators for Aortic and Cardiac Sleeve Applications*  
**Charmaine Nieves**, Senior, Mechanical Engineering, ENG

## DaRin Butz Foundation Research Scholars

*Cache Reconfiguration via Dynamic Mapping Function*  
**Julie Lee**, Senior, Computer Engineering, ENG

*Construction and Test of a Reaction Plane Detector to Characterize Heavy Ion Collisions at the ATLAS Experiment at CERN*  
**Farah Mohammed Rafee**, Senior, Engineering Physics, ENG

*A Hybrid Plasma - Electrocatalyst Activated Process for the Synthesis of Ammonia from Air and Water*  
**Nitika Purohit**, Sophomore, Nuclear, Plasma, and Radiological Engineering, ENG

*Determining the Effects of Estrogen in an Osteoporotic Model Using a Sex-based Approach on Mineralized Collagen Scaffolds*  
**Sofia Vargas**, Senior, Materials Science & Engineering, ENG

## Semiconductor Research Corporation Undergraduate Research Program

*Effects of Pneumonia Along Animal Specimen using Electron  
Microscopy and X-ray Scattering*  
**Nathan Anderson**, Senior, Materials Science & Engineering, ENG

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*Use of (Ultra)Wide-bandgap Materials in Power Devices*  
**Aleksai Herrera**, Junior, Electrical Engineering, ENG

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*Patterning of Structure, Properties, and Function in Polymeric  
Materials*  
**Anisha Sharma**, Senior, Materials Science & Engineering, ENG

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*Large-Signal Modeling of GaN HEMTs Using Fermi Kinetics and  
Commercial Hydrodynamics Transport*  
**Ethan White**, Sophomore, Electrical Engineering, ENG

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## ISUR Scholars

*Measuring the Hydraulic Permeability of Polyacrylamide Hydrogels*  
**AJ Agüero**, Senior, Materials Science & Engineering, ENG

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*Optimization of Data Analysis Methods for Optical Transmission  
Relaxation Testing*  
**Katrina Arsky**, Junior, Materials Science & Engineering, ENG

---

*Boundary Layer over an Accelerating Wall*  
**Coggan Banerian**, Sophomore, Mechanical Engineering, ENG

---

*Macrophage Phenotype Modulation in RAW 264.7 Cells Using Anti-  
Inflammatory Drug Combinations*  
**Milica Barac**, Junior, Bioengineering, ENG

---

*The Development of R Based Code for the Analysis of Nanostring and  
Luminex Assays*  
**Jared Buabeng**, Junior, Chemical & Biomolecular Engineering, LAS

---

*Using Python to Expedite SEM Data Analysis*  
**Patrick Carmichael**, Junior, Materials Science & Engineering, ENG

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*Surgical Masks: A Direct Source for Inhalation of Microplastics*  
**Avram Distler**, Senior, Mechanical Engineering, ENG

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*Tumor Microenvironment-mediated Patterns of Therapeutic  
Resistance in 3D Sex-specific Glioblastoma Models*  
**Ela Eames**, Senior, Chemical & Biomolecular Engineering, LAS

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*DR-BERT: A Protein Language Model to Annotate Disordered Regions*  
**John Forsyth**, Junior, Computer Science, ENG

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*Developing a 3D-Printed GelMA Model for the Study of Endometriosis  
Invasion*  
**Sarah Hashim**, Senior, Chemical & Biomolecular Engineering, LAS

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*Large-Scale Graph Analytics with In-Storage Computing*  
**Kevin Higgs**, Sophomore, Computer Science, ENG

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*The Development and Evaluation of an Accessible Soft Aquatic Robot*  
**Jaylynn Kim**, Sophomore, Mechanical Engineering, ENG

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*Neutral 171Yb Tweezer Array in a Concentric Cavity*  
**Healey Kogan**, Junior, Engineering Physics, ENG

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*Intrinsic Signal Imaging*  
**Beulah Lee**, Senior, Computer Engineering, ENG

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*Early Detection and Prediction of Facial Expression for Parkinsonism  
Powered by Few-Shot Learning*  
**Samuel Li**, Senior, Mathematics & Computer Science, LAS

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*Imparting Extensibility to Colloidal Inks for Direct-Ink-Writing  
Printability*  
**Eliza Lovrich**, Senior, Bioengineering, ENG

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*Direct-Write 3D Printing of Thermosets with Frontal Polymerization*  
**Andrew Lum**, Sophomore, Material Science & Engineering, ENG

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*Characterization of Li<sub>2</sub>CuO<sub>2</sub> as an Energy Dense Cathode Material in  
All-solid-state Li-ion Batteries*  
**Dylan Mendez**, Junior, Materials Science & Engineering, ENG

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*The Role of the Prefrontal Cortex and Hippocampus on Working  
Memory*  
**Eric Modesitt**, Sophomore, Computer Science, ENG

---

*Measuring the Hydraulic Permeability of Physically Crosslinked  
Hydrogels*  
**Maritza Murillo**, Senior, Materials Science & Engineering, ENG

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*Modeling of Radical-Scavenger Reaction and Diffusion within the  
Plasma-Liquid Interface*  
**Sean Peyres**, Senior, Nuclear, Plasma & Radiological Engineering,  
ENG

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*Investigating the Influence of Initial MSC Inflammatory State and  
Macrophage Polarization in a 3D Co-culture Platform*  
**Maxwell Polanek**, Senior, Chemical & Biomolecular Engineering,  
LAS

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*Impact of Task Diversity on the Performance of Meta-Learning and  
Supervised Learning*  
**Patrick Yu**, Junior, Computer Science, ENG

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*IBM-Illinois Discovery Accelerator Institute URE Scholars  
Optimization Methods in Quantum Information Systems*  
**Hani Al Majed**, Senior, Electrical Engineering, ENG

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*Palak Kotwani, Sophomore, Computer Science, ENG*  
*Expository Text Generation: Imitate, Retrieve, Paraphrase*  
**Nishant Balepur**, Senior, Computer Science, ENG

---

*Multilevel Coherence and Manipulation of Transmon Qubits*

**César Díaz Blanco**, Senior, Computer Engineering, ENG  
**Sean Ramirez**, Junior, Computer Engineering, ENG

*An AI-based Framework for Accelerated Discovery of Climate Impacts on Different Societal Sectors*

**Brandon Dinh**, Junior, Computer Science, ENG  
**Jiayin Meng**, Junior, Computer Science, ENG

*Serverless Application Paradigm Classification*

**Jieshu Huang**, Senior, Computer Science, ENG

*Using Distributed Learning to Scale Deep Neural Networks with Ray and HAL*

**Arnav Mehta**, Sophomore, Computer Engineering, ENG

*CodeFlare Enabling Scientific Multicloud Workflows*

**Minh Phan**, Junior, Computer Science, ENG

*Quantum Simulation of the Time-Evolution of the XXX Heisenberg Hamiltonian Using NISQ Devices*

**Pedro Prado**, Junior, Engineering Physics, ENG

*Using Distributed Learning to Scale Deep Neural Networks with Ray and HAL*

**William Tegge**, Junior, Computer Engineering, ENG

## CS Student Ambassadors/Research Scholars (CS STARS)

*Advising People on Future Career Options Based on a Soft Skills Survey*

**Anushka Kansal**, Sophomore, Computer Science, ENG

*Security & Privacy in Teen Dramas*

**Efthalia Karas**, Junior, Mathematics & Computer Science, LAS

*Dynamic NeRF (Neural Radiance Field)*

**Rachael Wei**, Junior, Computer Science, ENG

## Promoting Undergraduate Research in Engineering (PURE)

*Titration and Data Collection*

**Mahima Agrawal**, Freshman, Computer Science, ENG

*Plastic-consuming Bacteria*

**Taige Chen**, Freshman, Physics, ENG  
**Fay Lin**, Sophomore, Computer Science and Chemistry, LAS  
**Neha Musunuri**, Freshman, Bioengineering, ENG  
**Keenan Peris**, Freshman, Physics, ENG

*Healthy Indulgence: The Presence of Antioxidants, Polyphenols, and Acidity in Chocolate*

**Ahmar Khan**, Sophomore, Molecular & Cellular Biology, LAS

*Designing Aircraft Wing Sections*

**Meera Patel**, Freshman, Mechanical Engineering, ENG

*Cacao Beans Data Analysis*

**WeiQi Zhang**, Junior, Mathematics and Computer Science, LAS  
**Runlin Zheng**, Junior, Statistics, LAS

## Cancer Center at Illinois Undergraduate Research Symposium

**Cancer Center at Illinois**

**Tuesday, April 25, 3:00 PM – 5:00 PM**

**Beckman Institute, Room 5602**

**405 N Matthews Ave, Urbana, Illinois**

Students within the Cancer Scholars Program and other undergraduates working in Cancer Center members' labs will participate in a poster symposium to highlight their research accomplishments.

*Derivatization of ErSO-TFPy, a Selective Killer of Estrogen Receptor Positive Breast Cancer*

**Hunter Carrell**, Senior, Biochemistry, LAS

*Can 6-Weeks of Physical Activity Group Discussions Impact Cancer Survivors Step Counts?*

**Jessica Cox**, Senior, Speech & Hearing Science, LAS

*The Effects of Acetyl-CoA Synthetase on Estrogen Receptor Positive Metastatic Breast Cancer Cell Lines with Endocrine Therapy*

**David Dutton**, Junior, Molecular & Cellular Biology, LAS

*Oxygen-Nanoparticle Cascade Reaction Hydrogel to Alleviate Hypoxia and Combat ROS in Chronic Wounds*

**Leah Ju**, Senior, Bioengineering, ENG

*Examining the Therapeutic Potential of Combining Eltanexor with Tamoxifen to Treat Primary and Metastatic ER+ Tumors*

**Myra Kamdar**, Senior, Molecular & Cellular Biology, LAS

*Efficacy of Combinatorial Hormone Therapies on ER+ Metastatic Breast Cancer Cell Lines*

**Alanna Kaminsky**, Senior, Food Science & Human Nutrition, ACES

*Elucidating the Mechanism of Cycloamine Binding*

**Kihong Kim**, Senior, Chemical Engineering, ENG

*Investigating Relationships between Colorectal Cancer and Agricultural Practices: County data Analyses*

**Jacob Minin**, Senior, Bioengineering, ENG

*Levels of Fos Expression in D1- and D2-SPNs May Indicate Motor Learning During a Striatum-dependent Reinforcement Learning Task*

**Cynthia Mu**, Junior, Molecular & Cellular Biology, LAS

*Environment-mediated Tumor Progression in a Bioengineered Model of Glioblastoma*

**Joseph Mueller**, Sophomore, Chemical Engineering, ENG

*Synthesis of Complex Electrophilic Warhead-Functionalized Derivatives of a Triterpenoid*

**Quinton Perry**, Senior, Chemistry, LAS

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*Exploring Self-Efficacy for Physical Activity Among Cancer Survivors Participating in a Virtual 12 Week Program*

**Rahil Sadruddin**, Junior, Kinesiology, AHS

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*Long-Term Oral Exposure to Diisononyl Phthalate May Accelerate Ovarian Aging Through Increased Fibrosis and Expression of Telomeric Repeat Binding Factors*

**Adira Safar**, Sophomore, Molecular & Cellular Biology, LAS

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*Optimizing Near-infrared Photoacoustic Contrast Agents for Cancer Localization and Imaging*

**Qasim Sikander**, Senior, Chemistry, LAS

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*CRaB-Pys: Method for Improved Photoacoustic Imaging*

**Brennen Thomas**, Senior, Chemical Engineering, LAS

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*Controlling Death in Breast and Ovarian Cancer Cells with Novel Pathway Regulating Anticancer Drug*

**Elaine Wei**, Sophomore, Biochemistry, LAS

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*Hydrolysis-resistant Ester-based Linkers for Development of Activity-based NIR Bioluminescence Probes*

**Yourong Weng**, Junior, Chemical Engineering, LAS

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*Probing Cancer Stem Cell Differentiation via Manipulation of Tumor Oxygenation*

**Lily Wenger**, Junior, Biochemistry, LAS

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## **AHS Undergraduate Research Expo**

**College of Applied Health Sciences**

**Wednesday, April 26, 2:00 PM – 3:30 PM**

**Huff Hall, 1st Floor**

**1206 S 4th St, Champaign, Illinois**

Applied Health Science undergraduates will be sharing their research posters which will be presented at the Undergraduate Research Symposium in the first-floor hallway in Huff Hall. Come by to discover the exciting research our students are involved in. Feel free to ask questions of the students to learn more about their work.

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## **Illinois Distributed Museum Tours**

Illinois Distributed Museum interns (enrolled in the history department) will be leading tours around campus that talk about important innovations and innovators. This will be their final project for their semester-long internship after completing archival research about these innovations.

## **Education Innovations Walking Tour**

**Wednesday, April 26, 3:00 PM – 4:30 PM**

**University Archives, Room 146 Main Library**

**1408 W Gregory Dr, Urbana, Illinois**

Join Grace Kraft, one of the Illinois Distributed Museum's Spring interns, on a walking tour of campus to highlight education-related innovations from the University of Illinois. Hear about the development of various campus departments, impactful figures in university history, key technological developments, and more. This tour will start at the University Archives, located in the Main Library Room 146. We will spend approximately an hour and a half walking to 8 different locations on campus. It is helpful if you register but is not required. Accommodation requests can also be made through registration. Register at <https://go.illinois.edu/EducationInnovations>  
**Grace Kraft**, Junior, History, Secondary Education, LAS

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## **Cultural Innovations Walking Tour**

**Friday, April 28, 4:00 PM – 5:00 PM**

**University Archives, Room 146 Main Library**

**1408 W Gregory Dr, Urbana, Illinois**

Join Devin Manley, one of the Illinois Distributed Museum's Spring interns, on a walking tour of campus to highlight cultural and community building innovations from the University of Illinois. Hear about the history of this campus's multi-ethnic and multi-cultural past as we think critically about the University of Illinois' role in defining immigration policies, the Civil Rights Movement, and the progression of inclusive academia at both the local and global scale. Follow along as we visit some of the University's most powerful and life-changing sites that you may walk past every day without even knowing! This tour will start at the University Archives, located in the Main Library Room 146. We will spend approximately an hour and a half walking to 7 different locations on campus. It is helpful if you register but is not required. Accommodation requests can also be made through registration. You can register at <https://go.illinois.edu/CulturalInnovations>  
**Devin Manley**, Junior, History, LAS

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## **McNair Scholars Program**

### **Undergraduate Research Panel**

**Office of Minority Student Affairs**

**Wednesday, April 26, 5:00 PM – 7:00 PM**

**Bruce D. Nesbitt African American Cultural Center,**

**Multipurpose Room**

**1212 W Nevada St, Urbana, Illinois**

Five to seven McNair Scholars Program participants will participate in a panel discussion designed to 1) provide attendees with a "day in the life" of an undergraduate researcher 2) share their experiences in the McNair Program Summer Research Institute 3) answer any questions interested students may have about conducting research or participating in the McNair Program.

## Parkland Honors Program

Parkland College

Thursday, April 27, 11:00 AM – 1:00 PM

Parkland College, Room U-140

2400 W Bradley Ave, Champaign, Illinois

Parkland College students have participated in the Undergraduate Research Symposium at the University of Illinois at Urbana-Champaign (UIUC) since 2013 under the Ethnography of the University Initiative. This initiative, supported by the Office of Undergraduate Research at UIUC, has students use a variety of ethnographic, archival, and related methods to examine their home institutions in its broader social, political, and historical contexts. Starting in 2022, Parkland students doing course-embedded research continued this collaboration and participated in the symposium at their home institution hosted by Parkland's Honors Program. In 2023, the Parkland Honors Symposium welcomed the participation of Psi Beta students, the Community College National Honors Society in Psychology.

## Anthropology Ethnography of the University Initiative

*An Ethnographic Study of Snack Eating Habits of Parkland Students*

**Jordan Goodhart**, Parkland College

**Prechethan Kessiradi**, Parkland College

**Logan Haake**, Parkland College

**Tyler Thomas**, Parkland College

**Aaron Triplett**, Parkland College

*An Ethnography of Factors Leading Students to Choose Parkland as Their College*

**Dwayne Hubbard**, Parkland College

**Jaimee Hudson**, Parkland College

**David Schroeder**, Parkland College

**Jasmine Smith**, Parkland College

*Exploring the Lived Experiences of Community College Students*

**Yashvardhan Ahlawat**, Parkland College

**Mike Bellamy**, Parkland College

**Ethan Derringer**, Parkland College

**Sheena Shane**, Parkland College

*Misconceptions and Expectations About College*

**Thalia Gonzalez**, Parkland College

**Alam Martinez**, Parkland College

**Craig Ondevilla**, Parkland College

**Aaron Saucedo**, Parkland College

*An Ethnography of Parkland Pathway Students*

**Chase Belt**, Parkland College

**Taylor Blackwell**, Parkland College

**Margaret Daniels**, Parkland College

**Blessing Omoniyi**, Parkland College

## Psi Beta Psychology Club

*Development of a Pronoun Usage Learning Module to Enhance Faculty Education*

**Evelyn Ashley**, Parkland College

*Developmentally Appropriate and Evidence-Based Approaches for Improving Attention in Kindergarteners*  
**Alana Brown**, Parkland College

*The Importance of Being in Nature*  
**Peyton Daniel**, Parkland College

*How Autism Representation in the Media Influences People's Attitudes: A Literature Review*  
**Eleanor Klein**, Parkland College

*A Literature Review of Intrapersonal Interventions to Reduce Partisan Affective Polarization*  
**Katrina Powers**, Parkland College

*Food Bank Survey*  
**Jesse Bradford Swanson**, Parkland College

## Department of Economics Research Symposium

Department of Economics

Thursday, April 27, 2023, 6:00 PM – 7:30 PM

Zoom: [go.illinois.edu/URWEcon](https://go.illinois.edu/URWEcon) (Passcode: 906028)

The Department of Economics conducts an Economics Research Symposium every spring. They are a valuable experience for Economics students who want to present research they have been working on during the academic year. Research projects are from independent studies, research courses, or any class where the student worked on a project, paper, or research. Some of the research is in the proposal form or will be ongoing, while others are completed projects.

## Humanities Research Lab Showcase

Humanities Research Institute (HRI)

Friday, April 28, 12:00 – 2:00 PM

Levis Faculty Center, 2nd Floor (Room 210)

919 W Illinois St, Urbana, Illinois

Students from the Humanities Research Lab Courses, SPAN 232, "Spanish in the Community," led by Professor Ann Abbott, and HIST 312, "Immigrant America," led by Professor Yuridia Ramírez, will present and reflect on the community-engaged research they undertook as part of their course. Humanities Research Labs are a collaboration between the Humanities Research Institute (HRI) and the Office of Undergraduate Research (OUR), and offer students an opportunity to participate in community-based Research.

*Working Alongside the Immigration Project*  
**Frank Cabrera**, Senior, History & English, LAS

*Immigrant Unaccompanied Minors*  
**Madeleine Meehan**, Senior, Molecular & Cellular Biology & Spanish, LAS

*Courage Connection Community Engaged Project*  
**Kaylee Moore**, Junior, History and Gender & Women's Studies, LAS

*Food Banks and Migrant Communities: Community Service Center of Northern Champaign County*  
**Kevin Murphy**, Sophomore, History & Political Science, LAS

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*Access to Healthcare Within the Hispanic Community*  
**Krupa Shah**, Junior, Molecular & Cellular Biology & Spanish, LAS

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*La tensión entre español y inglés en el comportamiento lingüístico de los inmigrantes hispanohablantes / The Tension Between Spanish and English in Spanish-speaking Immigrants' Linguistic Behavior*  
**Sylvia Techmanski**, Freshman, Spanish and Speech & Hearing Science, LAS

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## **Department of Political Science Honors and Awards Ceremony**

**Department of Political Science**  
**Saturday, May 6, 11:00 AM – 2:00 PM**  
**Hilton Garden Inn**  
**1501 S Neil St, Champaign, Illinois**

Political science honors students will present poster sessions summarizing their thesis project. This is the culmination of a year-long process in which students learn to design their research, and work with a faculty advisor to complete a significant research project. We will also be honoring inductees to Pi Sigma Alpha, the political science honors society, and political science scholarship recipients.

## **School of Art & Design Undergraduate Research Exhibition**

**College of Fine & Applied Arts**  
**Saturday, May 6 – Friday, May 14, On Display**  
**Krannert Art Museum**  
**500 E Peabody Drive, Champaign, Illinois**

The School of Art & Design's Undergraduate Research Week Exhibition will feature outstanding creative research by students participating in the annual Art & Design BFA (Bachelor of Fine Arts) exhibition. This celebrates the breadth of research done in Art & Design programs, encompassing the Studio Arts, Graphic Design, Industrial Design, Art History, and Art Education. Student work will also be available via an exhibition website beginning May 14. Please visit the School's website at <https://art.illinois.edu/> for more information.



# 2023 Undergraduate Research Symposium

April 27, 2023

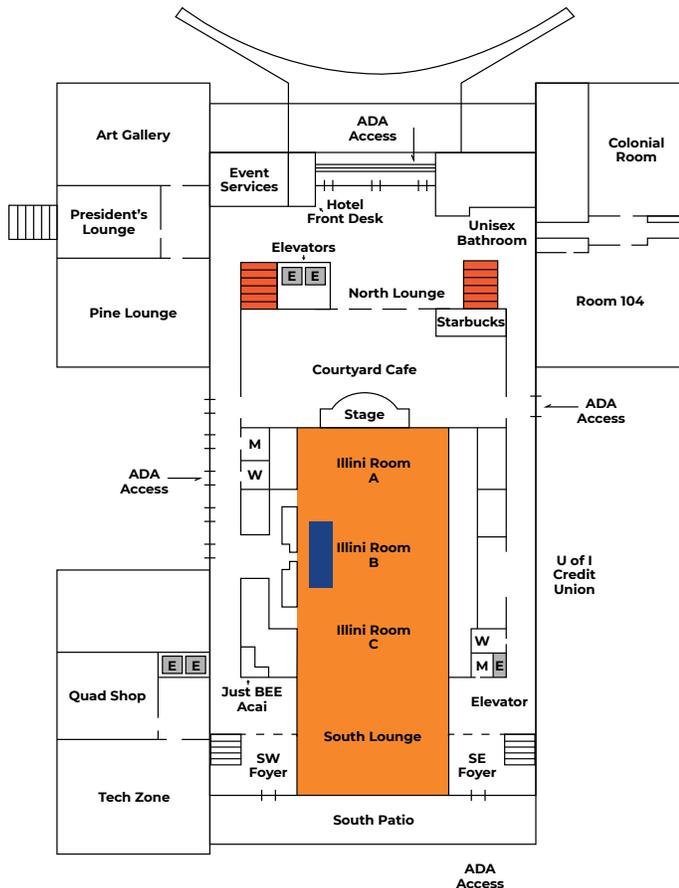
9 AM - 5 PM, Illini Union

Posters in Illini Rooms, A, B, C & South Lounge

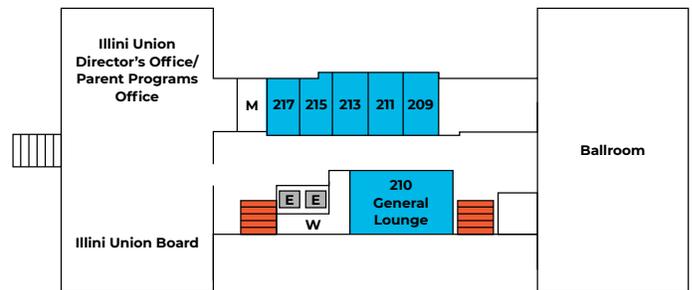
Oral Presentations on 2nd Floor

## Event Map

### Illini Union Main Level



### Illini Union Second Level



- Poster Presentations
- Oral Presentations
- On Exhibit
- Stairs to and from Oral Presentations
- Elevators

North arrow pointing up.

## Oral Presentations

### On Exhibit

**Illini Room B**  
**10:30 AM - 12:15 PM**

*The Mixmaster 9000 - An Electronic Dance Instrument (EDI)*  
**Jason Brickman**, Senior, Dance, FAA  
 (Research Mentor(s): John Toenjes, Dance)

### Viruses and Pathogens: Next Generation Therapeutics

9:15 AM - 10:15 AM, Room 209

*Antimicrobial Random Peptide Mixtures Eradicate Acinetobacter baumannii Biofilms and Inhibit Mouse Models of Infection*  
**Hannah Caraway**, Senior, Integrative Biology, LAS  
 (Research Mentor(s): Gee Lau, Pathobiology)

*Mechanisms of HIV Latency Reactivation During Monocyte-to-Macrophage Differentiation*  
**Neha Arun**, Senior, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Collin Kieffer, Microbiology)

*Psychological Stress-Induced Modifications to Intestinal Epithelial Physiology Parallel Shifts in the Gut Microbiome*  
**Ivan Valishev**, Junior, Integrative Biology, LAS  
 (Research Mentor(s): Maria Elisa Caetano-Silva, Kinesiology & Community Health & Jacob Allen, Kinesiology & Community Health)

### Design Thinking: Developing Innovative Tools and Techniques in Health Literacy; Compliant Mechanisms; and Robotic Motion Planning

9:15 AM - 10:15 AM, Room 210

*Health Literacy Measurement Tools for Individuals With Autoimmune Diseases*  
**Isha Satani**, Junior, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Chung-Yi Chiu, Kinesiology & Community Health & Mojtaba Khaliji, Kinesiology & Community Health)

*High Precision Compliant Mechanism for Scanning Electrochemical Microscopy*  
**Nikita Lukhanin**, Senior, Mechanical Engineering, ENG  
 (Research Mentor(s): Charles Schroeder, Chemical & Biomolecular Engineering & Joaquín Rodríguez-López, Chemistry)

*Studying Accessibility with Skeleton-Guided Motion Planning*  
**Keerthana Nallamotu**, Sophomore, Computer Science, ENG  
 (Research Mentor(s): Nancy Amato, Computer Science)

### Engineering Technologies: Object Manipulations; Pattern Analyses

9:15 AM - 10:15 AM, Room 211

*3Dp: OpenSfM for Representing and Manipulating Deformable Objects*  
**Fuad Samhouri**, Senior, Aerospace Engineering, ENG  
 (Research Mentor(s): Holly Dinkel, Aerospace Engineering & Timothy Bretl, Aerospace Engineering)

*Data Extraction and Pattern Analysis of Electric Scooters and Bikes*  
**Mingyi Yu**, Junior, Civil & Environmental Engineering, ENG  
 (Research Mentor(s): Yanfeng Ouyang, Civil & Environmental Engineering & Jesus Javier Osorio Fuenmayor, Civil & Environmental Engineering)

### Fostering Inclusive Education Systems

9:15 AM - 10:15 AM, Room 213

*African Americans Parents' Aspirations for Their Middle-School Children*  
**Rithika Baskar**, Senior, Psychology, LAS  
 (Research Mentor(s): Carla Hunter, Psychology)

*Design and Preliminary Results of a Digital Coach for Teaching*  
**Timor Averbuch**, Sophomore, Computer Science, ENG  
**Nalin Tiwary**, Sophomore, Computer Science, ENG  
 (Research Mentor(s): Lawrence Angrave, Computer Science & Allison Moody, Theatre)

*Improving Access to Engineering Education: Unlocking Text and Table Data in Images and Videos*  
**Uchchukwu Uche-Ike**, Junior, Computer Science, ENG  
 (Research Mentor(s): Lawrence Angrave, Computer Science)

### Identity and Memory

9:15 AM - 10:15 AM, Room 215

*Fractal Borderlands and Ideal Citizens: A Closer Look at Community Boundaries*  
**Michael Jacobson**, Junior, Gender & Women's Studies, LAS  
 (Research Mentor(s): Ghassan Moussawi, Gender & Women Studies & Daniel McCarthy, Gender & Women Studies)

*Jewish American Reactions to the Bosnian Genocide*  
**Edward Ryan**, Senior, History, LAS  
 (Research Mentor(s): Peter Fritzsche, History & Ralph Mathisen, History)

*Remembering the Pontic Greek Genocide*  
**Justin Wytmar**, Sophomore, History, LAS  
 (Research Mentor(s): Stefan Djordjevic, History)

## Science and Computation: Models and Processes

9:15 AM – 10:15 AM, Room 217

*Modeling of Radical-Scavenger Reaction and Diffusion within the Plasma-Liquid Interface*

**Sean Peyres**, Senior, Nuclear, Plasma & Radiological Engineering, ENG  
(Research Mentor(s): R. Mohan Sankaran, Nuclear, Plasma & Radiological Engineering)

*The Blandford-Znajek Process in Quadratic Gravity*

**Nicolas Patino**, Senior, Physics, LAS  
(Research Mentor(s): Nicolas Yunes, Physics)

*Quantum Channels and Error Correction*

**Chieh Hsu**, Junior, Engineering Physics, ENG  
**Yushan Chen**, Junior, Mathematics, LAS  
**Abraham Holtermann**, Junior, Engineering Physics, ENG  
**Tushar Mohan**, Freshman, Engineering Physics, ENG  
**Jihong Cai**, Junior, Mathematics, LAS  
**Zeyuan Yu**, Junior, Mathematics, LAS  
(Research Mentor(s): Roy Araiza, Mathematics & Peixue Wu, Mathematics)

## Challenging the Status Quo: Athletics and Policy Development

11:00 AM – 12:00 PM, Room 209

*Collective Bargaining Agreements for Professional Athletes: An Analysis of Agreements*

**Jayla Young**, Junior, Psychology, LAS  
(Research Mentor(s): Caitlin Clarke, Kinesiology & Community Health & Eva Rubin, Kinesiology & Community Health)

*Fighting to Be Illini: Title IX, Women's Basketball, and the Struggle for Gender Equity at the University of Illinois*

**Connor Barnes**, Senior, History, LAS  
(Research Mentor(s): Adrian Burgos Jr., History)

*More Tactical Experience - Greater Resilience?*

**Madelyn Szamocki**, Senior, Kinesiology, AHS  
(Research Mentor(s): Steven Petruzzello, Kinesiology & Community Health & Jonathan North, Kinesiology & Community Health)

## Telling Stories

11:00 AM – 12:00 PM, Room 210

*An Exploration of the Gothic and Modern Spaces in Melville's Bartleby*

**Aaron Mukhopadhyay**, Junior, English, LAS  
(Research Mentor(s): Tim Newcomb, English)

*Howl's Moving Castle Moving*

**Gehan Jia**, Junior, Mathematics & Computer Science, LAS  
(Research Mentor(s): Jenny Oyallon-Koloski, Media & Cinema Studies)

*Zumbi: The Name of a Hero and What It Meant to Colonial Forces*

**Caroline Da Rocha Birnfeld**, Sophomore, History, LAS  
(Research Mentor(s): Marc Hertzman, History)

## Innovations in Agriculture Technology

11:00 AM – 12:00 PM, Room 211

*Adaptive Individual Recognition for Swine*

**Noel Dunning**, Sophomore, Computer Science & Animal Sciences, ACES  
(Research Mentor(s): Isabella Condotta, Animal Sciences)

*Deep Learning Model for Cattle Facial Identification*

**Wei-Chen Chang**, Senior, Actuarial Science, LAS  
(Research Mentor(s): Isabella Condotta, Animal Sciences & Luana Benicio, Animal Sciences)

*Inclusion Effects of Malt Rootlets on pH, Short-Chain Fatty Acids and Lactic Acid Fecal Concentrations in a Horse Diet*

**Ana Carolina Almeida Silva**, Exchange Student, University of São Paulo  
(Research Mentor(s): Alexandre A. de Oliveira Gobesso, University of São Paulo & Matthew B. Wheeler, Animal Sciences)

## Health and Wellness

11:00 AM – 12:00 PM, Room 213

*Food Convos: Do We Need Them?*

**Brynn Maxwell**, Senior, Food Science & Human Nutrition, ACES  
(Research Mentor(s): Kemal Nance, Dance & Justine Karduck, Food Science & Human Nutrition)

*The Relationship between Physical Activity and Cognitive and Motor Skills in School-Aged Children*

**Ananya Singh**, Junior, Chemistry, LAS  
**Lauren Couri**, Junior, Community Health, AHS  
(Research Mentor(s): Naiman Khan, Kinesiology & Community Health)

*Trauma-Informed Care Against Gun Violence*

**Pierre Moore**, Senior, Community Health, AHS  
(Research Mentor(s): Anthony Sullers Jr., African American Studies)

## Science and Computation: Novel Systems

11:00 AM – 12:00 PM, Room 215

*Efficiently Executing Discontinuous Galerkin Finite Element Method (DG-FEM) Workloads on GPUs via Data Flow Graphs*

**Mit Kotak**, Senior, Engineering Physics, ENG  
(Research Mentor(s): Kaushik Kulkarni, Computer Science & Andreas Kloeckner, Computer Science)

*The Effects of Embodiment Experience on Text Foraging*

**Yimei Jiang**, Senior, Psychology, LAS  
(Research Mentor(s): Jessie Chin, School of Information Sciences)

## Marginalizations

11:00 AM – 12:00 PM, Room 217

*Crippling the Bechdel Test: Standards for Evaluation of Disability Representation in Film*

**Ruby Elbert**, Senior, Disability Studies & Spanish, LAS  
(Research Mentor(s): Catherine Prendergast, English)

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*The Asian Adoptee Experience at Post-secondary Institutions: Specifically in Student Organizations*

**Will Yepsen**, Junior, Political Science, LAS  
(Research Mentor(s): Sharon Lee, Education Policy, Organization & Leadership)

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*Yellow Hollywood*

**Alex Gallegos**, Sophomore, Media & Cinema Studies, COM  
(Research Mentor(s): Rachel Kuo, Media & Cinema Studies)

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## Science & Technology: Developments in Biocompatibility

2:15 PM – 3:15 PM, Room 209

*Emulsification of Hydrothermal Liquefaction Biocrude Oil Derived from Food Waste*

**Siyu Yang**, Junior, Chemistry, LAS  
(Research Mentor(s): Sabrina Summers, Agricultural & Biological Engineering & Yuanhui Zhang, Agricultural & Biological Engineering)

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*Exploration and Validation of Gelatin-Based Polymers as Alternatives for Silicone in Soft Implantable Devices*

**Aasiyah Adnan**, Sophomore, Bioengineering, ENG  
**David Wilcoski**, Junior, Bioengineering, ENG  
(Research Mentor(s): Sandra Edward, Mechanical Science & Engineering & Holly Golecki, Bioengineering)

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*Partitioning of Small Hydrocarbon Molecules Between the Vapor and the Polyethylene Melt in Polymer Upcycling Processes*

**Chinmay Sahasrabudhe**, Sophomore, Chemical Engineering, LAS  
(Research Mentor(s): Baron Peters, Chemical & Biomolecular Engineering)

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## Storytelling: Novel Approaches

2:15 – 3:15 PM, Room 210

*Save or Discard? : The Preservation of Memory in Angie Cruz's novels*

**Leticia Flores Martinez**, Senior, English, LAS  
(Research Mentor(s): José A. de la Garza Valenzuela, Latina/Latino Studies)

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*SUCHO Meme Wall: Memes in Wartime*

**Mason Acquaviva**, Freshman, History, LAS  
**Daniel Shepherd**, Junior, History, LAS  
(Research Mentor(s): John Randolph, History)

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*We Tell Stories: The Influence of Traditional Yoruba Performance in Contemporary Theatre*

**Jaylon Muchison**, Junior, Theatre, FAA  
(Research Mentor(s): Kristen Pullen, Theatre)

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## Robotic Advancements in Support of Aging Populations

2:15 – 3:15 PM, Room 211

*Domestic Robot Research to Support Older Adults*

**Jade Marks**, Senior, Community Health, AHS  
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health & Samuel Olatunji, Human Factors & Aging Laboratory)

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*Exploring Older Adults' Willingness to Trust Telehealth Robots*

**Saathveek Gowrishankar**, Freshman, Computer Engineering, ENG  
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health & Samuel Olatunji, Human Factors & Aging Laboratory)

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*What is Aging Independently and What's a Robot Got to do with it?*

**Megan Bily**, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health & Megan Bayles, Human Factors & Aging Laboratory)

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## Nature, Life & Environment

2:15 – 3:15 PM, Room 213

*Behavior in Threespine Stickleback and its Contingency on Received Care*

**Tara Pavithran**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Alison Bell, Evolution, Ecology & Behavior & Meghan Maciejewski, Evolution, Ecology & Behavior)

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*Prevalence of Heartland Virus (HRTV) & Bourbon Virus (BBRV) in Ambreamum Americanum*

**Shreyas Rajagopalan**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Brian Allan, Entomology & Derek McFarland, Entomology)

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*Recent Insect Sampling in Thailand Reveals High Diversity in Potential Leafhopper Vectors of Plant Disease (Cicadellidae)*

**Sydney Littlejohn**, Junior, English, LAS  
(Research Mentor(s): Christopher Dietrich, Illinois Natural History Survey)

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## Cellular Dynamics

2:15 – 3:15 PM, Room 215

*Devising Methods to Quantify Viral Rebound Rate within HIV-infected Brain*

**Mina Kang**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Collin Kieffer, Microbiology)

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*From Hardship to Relief: Breaking Up with your Toxic Ex*

**Faisal Zaidi**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Steven Blanke, Microbiology & Ami Seeger, Microbiology)

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*Genome-Targeting Pathogen Promotes Loss of Intestinal Barrier Function Through DNA Damage Response*

**Olivia Rodriguez**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Molly Crowder, Microbiology & Steven Blanke, Microbiology)

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## Virtual Realities

2:15 PM – 3:15 PM, Room 217

*Storytelling in Virtual Reality: Teaching Physics Through Games*  
**Alex Shaffer**, Sophomore, Engineering Physics, ENG  
 (Research Mentor(s): Raluca Ilie, Electrical & Computer Engineering)

*A Participatory Design Approach to Develop a VR-Based Electrocardiogram Training Simulator*  
**Arnav Shah**, Junior, Computer Science, ENG  
 (Research Mentor(s): Harris Nisar, Industrial & Enterprise Systems Engineering & Lawrence Angrave, Computer Science)

*Virtual Reality Lab to Teach the Physics of Transmission Lines*  
**Alexander Romanov**, Senior, Engineering Physics, ENG  
 (Research Mentor(s): Raluca Ilie, Electrical & Computer Engineering)

## Questions of Belonging

4:00 PM – 5:00 PM, Room 209

*Centering Youth Voices about Their Experiences with COVID-19*  
**Sloane Ward**, Junior, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Jacinda Dariotis, Human Development & Family Studies)

*The Historically Underrepresented Genders (HUG) Initiative: Motivations for Pursuing Graduate School Among ECE Undergraduates*  
**Mayura Kulkarni**, Junior, Electrical Engineering, ENG  
**Alyssa Huang**, Sophomore, Electrical Engineering, ENG  
 (Research Mentor(s): Holly Golecki, Bioengineering & Mei-Yun Lin, Electrical and Computer Engineering)

*The Influence of Inclusivity on Belongingness through Physiology among College Students*  
**Maha Syed**, Senior, Integrative Biology, LAS  
 (Research Mentor(s): Nidia Ruedas-Gracia, Educational Psychology & Jessica Brinkworth, Anthropology)

## Learning Experiences and Human Development

4:00 PM – 5:00 PM, Room 210

*Effects of Parental Expectations and Socio-Economic Status on Adolescents Academic Achievement: An International Study*  
**Wenqian Long**, Senior, Psychology, LAS  
 (Research Mentor(s): D. A. Briley, Psychology)

*Updating Educational Video Content for the EMPOWER Weight Loss Program to Enhance the Learning Experience and Application of Knowledge to Dietary Habits*  
**Adam Syed**, Freshman, Food Science & Human Nutrition, ACES  
 (Research Mentor(s): Ashleigh Oliveira, Animal Sciences & Manabu Nakamura, Food Science & Human Nutrition)

*Writing Across the Curriculum Across Green Street: Observing Specialist and Generalist Tutoring for STEM Coursework*  
**Nic Quero**, Junior, English, LAS  
 (Research Mentor(s): Carolyn Wisniewski, Center for Writing Studies)

## Mental Health

4:00 PM – 5:00 PM, Room 211

*"Nobody Asked was I OK": The Mental and Psychological Stress on Urban African American Children*  
**Kameryn Alexander**, Senior, Political Science, LAS  
 (Research Mentor(s): Anthony Sullers Jr., African American Studies)

*The Relationship Between Early Life Adversity and Emotion Regulation with Sleep Quality As A Mediator*  
**Yuxuan Yang**, Freshman, Psychology, LAS  
 (Research Mentor(s): Nanthia Suthana, University of California at Los Angeles)

*The Role of Need for Approval in Predicting Future Perceptions of the Self and Peers Following Victimization*  
**Jasmine Bigelow**, Senior, Psychology, LAS  
 (Research Mentor(s): Karen Rudolph, Psychology & Haina Modi, Psychology)

## Numbers and Computation

4:00 PM – 5:00 PM, Room 213

*Formal Verification of SciTokens*  
**Bach Hoang**, Freshman, Mathematics, LAS  
 (Research Mentor(s): Jim Basney, National Center for Supercomputing Applications & Phuong Cao, National Center for Supercomputing Applications)

*Inflation and Growth Forecasting Using Machine Learning Methods*  
**Kelvin Jiang**, Senior, Economics, LAS  
 (Research Mentor(s): EunYi Chung, Economics)

*Quantum Sensing using N-V Centers*  
**Rishi Sivakumar**, Sophomore, Engineering Physics, ENG  
 (Research Mentor(s): Mikael Backlund, Chemistry)

## Plants and Animals

4:00 PM – 5:00 PM, Room 215

*Diversity and Chitinolytic Activity of Microbiome in Brood Cells and Emergent Adults of Colletes inequalis*  
**Vi Aldunate**, Senior, Integrative Biology, LAS  
 (Research Mentor(s): Alexandra Harmon-Threatt, Entomology & Anthony Yannarell, Natural Resources & Environmental Sciences)

*Seasonality and Recovery in Disease Dynamics*  
**Gabriel Kosmacher**, Senior, Mathematics & Computer Science, LAS  
 Dillon Max, Senior, Mathematics, LAS  
 (Research Mentor(s): Zoi Rapti, Mathematics)

*Neonicotinoid and Fungicide Impacts on Painted Lady Butterfly Development*  
**Kristine Schoenecker**, Senior, Natural Resources & Environmental Sciences, ACES  
 (Research Mentor(s): Alexandra Harmon-Threatt, Entomology & Anthony Yannarell, Natural Resources & Environmental Sciences)

## Social Issues and the Human Experience

4:00 PM – 5:00 PM, Room 217

*A Narrated Review on the Prevalence of Police Violence in the Disability Community*

**Riley Murphy**, Junior, Social Work, SSW  
(Research Mentor(s): Rachel Garthe, School of Social Work & Carol Wilson-Smith, School of Social Work)

*Orange and Blue and Green: Anti-War and Environmental Activism at the University of Illinois in the Early 1970s*

**Matthew Troher**, Senior, English, LAS  
(Research Mentor(s): Jamie Jones, English)

*Wrap Around Support with Victims of Gun Violence*

**Nicholas King**, Senior, Community Health, AHS  
(Research Mentor(s): Anthony Sullers Jr., African American Studies)

## Posters

### PA Session - Cells & Molecules

9:00 AM – 10:15 AM, Illini Room A

**1. A Cybercrime Detective (Digital Chromosome Banding) Distinguishes Real and Pseudo Sex Body**

**Royal Shrestha**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Joe (Huanyu) Qiao, Comparative Biosciences & Yiheng (Scott) Peng, Comparative Biosciences)

**2. An Expanded Role of the DNA-binding Protein ParA in Chromosome Anchoring and Segregation**

**John Norcross**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Stephanie Puentes, Microbiology)

**3. Impact of miR-129-5p delivered by 27HC-PMNs-seVs on Breast Cancer Promotion**

**Ki Lim**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Erik Nelson, Molecular & Integrative Physiology & Natalia Krawczynska, Beckman Institute)

**4. Diffusion Coefficient Measurements of Quantum Dot Nanoparticles in Live Cells**

**Sonja Gurbani**, Senior, Bioengineering, ENG  
(Research Mentor(s): Andrew Smith, Bioengineering & Opeyemi Arogundade, Bioengineering)

**5. Effects of A592T E-Cadherin on Cellular Mechanotransduction**

**Nicholas Allen**, Junior, Biochemistry, LAS  
(Research Mentor(s): Arthur Zou, Biochemistry)

**6. Effects of Incremental Doses of FRUIT-UP Supplementation on Glycemic Response of Adult Overweight and Obese Dogs**

**Savannah Limberg**, Senior, Animal Sciences, ACES  
(Research Mentor(s): Maria Regina Cattai de Godoy, Animal Sciences & Emanuela Kayser, Animal Sciences)

**7. Exploring Novel Ene-Reductase Function for Enzymatic Synthesis of Privileged Scaffolds**

**Megan Zhou**, Junior, Bioengineering, ENG  
(Research Mentor(s): Huimin Zhao, Chemical & Biomolecular Engineering & Guangde Jiang, Institute for Sustainability, Energy & Environment)

**8. Examining Fetal Brain Cortical Architecture in Response to Maternal Influenza Virus Infection**

**Virginia Florianowicz**, Junior, Animal Sciences, ACES  
**Ashley Matan**, Senior, Animal Sciences, ACES  
(Research Mentor(s): Adrienne Antonson, Animal Sciences & Izan Chalen Paredes, Animal Sciences)

**9. Fascin and  $\beta$ -Catenin Interactions in Regard to Actin Filaments**

**Amber Nagaraja**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): William Brieher, Cell & Developmental Biology)

**10. Identifying the Predominant Water-borne Glucocorticoid in Glassfrogs (*H. fleischmanni*)**

**Abigail Stevenson**, Sophomore, Psychology, LAS  
(Research Mentor(s): Emily Terrill, Evolution, Ecology & Behavior & Eva Fischer, Evolution, Ecology & Behavior)

**11. Investigating the Alternative Start Codon of ParB**

**Yahaira Chavez**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Paola Mera, Microbiology & Daniel Lee Joo, Microbiology)

**12. Investigation of the Role of the Coenzyme F420H2-Dependent Oxidoreductase Cao12 in the Generation of D-Amino Acids in Cacaoidin**

**Isaiah Lopez**, Senior, Biochemistry, LAS  
(Research Mentor(s): Wilfred van der Donk, Chemistry & Lainey Liang, Biochemistry)

**13. Layer-by-Layer Nanoencapsulation of Probiotic Bacteria**

**JP Colarelli**, Sophomore, Biochemistry, LAS  
(Research Mentor(s): Yanlin Lei, Food Science & Human Nutrition & Youngsoo Lee, Food Science & Human Nutrition)

**14. Long-Term Oral Exposure to Diisononyl Phthalate May Accelerate Ovarian Aging Through Increased Fibrosis and Expression of Telomeric Repeat Binding Factors**

**Adira Safar**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Jodi Flaws, Comparative Biosciences & Ramses Santacruz-Marquez, Comparative Biosciences)

**15. Metabolism of K9TCC Bladder Cancer Cells and Their Extracellular Vesicles**

**Katerina Baxter**, Sophomore, Bioengineering, ENG  
(Research Mentor(s): Stephen Boppert, Electrical & Computer Engineering & Jaena Park, Bioengineering)

**16. Oocyte Chromosome-Spindle Transfer Through Micromanipulation**

**Bushra Azhar**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Joe (Huanyu) Qiao, Comparative Biosciences & Reza Rajabi-Toustani, Comparative Biosciences)

**17. Probing Cancer Stem Cell Differentiation via Manipulation of Tumor Oxygenation**

**Lily Wenger**, Junior, Biochemistry, LAS  
(Research Mentor(s): Jefferson Chan, Chemistry & Chelsea Swartchick, Chemistry)

**18. Psychological Stress and Stress Transfer through Fecal Transplant Reshape Enterohepatic Axis Metabolites**

**Sari Gluck**, Junior, Integrative Biology, LAS  
(Research Mentor(s): Diego Hernandez Saavedra, Kinesiology & Community Health)

**19. Statin-dependent Suppression of Chemotaxis Occurs in a Geranylgeranyl Pyrophosphate-dependent Manner Independent of Both Cholesterol and Farnesyl Pyrophosphate**

**Kate Murphy**, Junior, Animal Sciences, ACES  
(Research Mentor(s): Daniel McKim, Animal Sciences & Steven Krauklis, Division of Nutritional Sciences)

**20. Stochastic Modeling of Cell Fate During Phage Lambda Infection**

**Kevin McDonald**, Junior, Physics, LAS  
(Research Mentor(s): Ido Golding, Physics)

**21. To Die or Not to Die: Controlling Death in Breast and Ovarian Cancer Cells with Novel Pathway Regulating Anticancer Drug**

**Elaine Wei**, Sophomore, Biochemistry, LAS  
(Research Mentor(s): Junyao Zhu, Biochemistry & David Shapiro, Biochemistry)

**22. Developing an Injury Model for Bone Regeneration**

**Megan Shamsi**, Senior, Chemical Engineering, LAS  
(Research Mentor(s): Aliko Kolliopoulos, Chemical & Biomolecular Engineering & Grace Rubino, Chemical & Biomolecular Engineering)

**PB Session - Science & Technology**

9:00 AM – 10:15 AM, Illini Room A

**25. Amazon Alexa Simbot Challenge - CS STARS**

**Devika Prasad**, Senior, Computer Science, ENG  
(Research Mentor(s): Julia Hockenmaier, Computer Science)

**26. Applying Contextual Engineering and Indigenous Science to Dynamic Climate Adaptation Strategies and Designs**

**Kyle Thompson**, Junior, Mechanical Engineering, ENG  
(Research Mentor(s): Alina Lusebrink, Agricultural & Biological Engineering & Ann Witmer, Agricultural & Biological Engineering)

**27. Assessing Marine Influence in Carboniferous Coal Ball Formation with Strontium Isotopes**

**Hannah Beddow**, Senior, Animal Sciences, ACES  
(Research Mentor(s): Max Christie, Geology)

**28. Automated Forgery Detection for Western Blot Images**

**Athena Zheng**, Junior, Computer Science, ENG  
(Research Mentor(s): Eric Shaffer, Computer Science)

**29. Characterizing Battery Interface Resistance using Direct Current Electrochemical Impedance Spectrometry (DCEIS)**

**Jaehong Park**, Senior, Chemical Engineering, LAS  
(Research Mentor(s): Paul Braun, Materials Science & Engineering & Peilin Lu, Materials Science & Engineering)

**30. Data-driven Assessment of Equitable Access to Electric Vehicle Charging Stations: A Case Study in Chicago**

**Ria Bhargava**, Freshman, Systems Engineering & Design, ENG  
(Research Mentor(s): Ruolin Zhang, Civil & Environmental Engineering)

**31. Electrolyte Effects on Electrochemical Alkene Epoxidation**

**Drew Hollyfield**, Freshman, Chemical & Biomolecular Engineering, ENG  
(Research Mentor(s): David Flaherty, Chemical & Biomolecular Engineering & Richa Ghosh, Chemical & Biomolecular Engineering)

**32. Enhancing Optical Character Recognition (OCR) Capabilities for Historical Documents**

**Rushdan Jimoh**, Senior, Information Sciences, SIS  
(Research Mentor(s): Jill Naiman, School of Information Sciences)

**33. Experimental Observation for a Confined Bubble Moving in Viscoelastic Fluids**

**Yantong Lin**, Senior, Mechanical Engineering, ENG  
(Research Mentor(s): Jie Feng, Mechanical Science & Engineering & Sung Gyu Chun, Mechanical Science & Engineering)

**34. NIR Analysis and Chemometrics of Cocoa Beans**

**Danielle Chao**, Sophomore, Chemistry, LAS  
(Research Mentor(s): AJ Taylor, Food Science & Human Nutrition & Nicki Engeseth, Food Science & Human Nutrition)

**35. Optical Character Recognition Post-Correction with Machine Learning**

**Morgan Cosillo**, Senior, Information Sciences, SIS  
(Research Mentor(s): Jill Naiman, School of Information Sciences)

**36. Pay to Play**

**Mutmaina Adebayo**, Sophomore, Computer Science & Philosophy, LAS  
(Research Mentor(s): Gang Wang, Computer Science & Kirill Levchenko, Electrical & Computer Engineering)

**37. Quantifying Copper Resistance of Xanthomonas Isolates Collected from IL Tomato Fields**

**Elizabeth De LaTorre**, Sophomore, Plant Biotechnology, ACES  
(Research Mentor(s): Sarah Hind, Crop Sciences)

**38. The Combined Effect on the Transcriptome of Fasting and Maternal Immune Activation in Pigs**

**Nicole Southey**, Junior, Bioengineering, ENG  
(Research Mentor(s): Sandra Rodriguez-Zas, Animal Sciences)

**39. The Effects of Phthalate Exposure on Neuron Number in the Hippocampus of Prenatal and Breastfeeding Long Evans Rats**  
**Savannah Theurer**, Senior, Psychology, LAS  
(Research Mentor(s): Janice Juraska, Psychology & Elli Sellinger, Psychology)

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**40. The Role of Exosomes in Exercise-Induced Neurogenesis**  
**Leah Malan**, Senior, Psychology, LAS  
**Prithika Ravi**, Sophomore, Molecular & Cellular Biology, LAS  
**Dan Rosu**, University High School  
(Research Mentor(s): Justin Rhodes, Psychology & Meghan Connolly, Neuroscience Program)

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**41. The Terahertz Intensity Mapper**  
**Hrushikesh Athreya**, Junior, Mechanical Engineering, ENG  
(Research Mentor(s): Joaquin Vieira, Astronomy)

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**42. Theoretical Investigations into Photoluminescent Au<sub>25</sub>@Ag Bimetallic Nanoclusters**  
**Aidan Lindsay**, Sophomore, Chemistry, LAS  
(Research Mentor(s): Christine Aikens, Kansas State University)

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**43. Thermochronologic Constraints on the History of the West African Craton and Subsequent Impacts on Implied Craton Stability**  
**Addison Curtis**, Senior, Geology, LAS  
(Research Mentor(s): Willy Guenther, Geology)

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**44. URAP**  
**Jorge Corral**, Senior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor(s): Hannah Molitor, Civil & Environmental Engineering)

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**45. An Investigation on the Evolution of Magnetic Fields across Self-Gravitating Black Hole Disks**  
**Shreyas Jammi**, Sophomore, Engineering Physics, ENG  
(Research Mentor(s): Antonios Tsokaros, Physics)

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## **PC Session - Health & Wellness**

**9:00 AM – 10:15 AM, Illini Room C**

**50. A Mini-Literature Review on Mental Health and Physical Activity Among Latina Youth to Design a Culturally Tailored Yoga Intervention**  
**Maritza Concepcion**, Sophomore, Community Health, AHS  
(Research Mentor(s): Yuliana Soto, Kinesiology & Community Health)

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**51. A New Animal Model for Evaluating Mood Dysfunction in Multiple Sclerosis: Intracerebroventricular EAE**  
**Katelyn Boetel**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Makoto Inoue, Comparative Biosciences)

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**52. A Review of Sex-Based Differences in Individuals with Misophonia**  
**Emilie Schramer**, Senior, Speech & Hearing Science, AHS  
(Research Mentor(s): Fatima Husain, Speech & Hearing Science)

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**53. A Systematic Review and Meta-Analysis of the Relationship Between Microbial Diversity and Human Health Outcomes**  
**Natalie Sinjaradze**, Junior, Molecular & Cellular Biology, LAS  
**Femi Orekoya**, Senior, Integrative Biology, LAS  
**Salifu Habib**, Senior, Molecular & Cellular Biology, LAS  
**Hanif Salam**, Junior, Integrative Biology, LAS  
**Dishan Gunya**, Freshman, Undeclared, DGS  
(Research Mentor(s): Brian Allan, Entomology & Fahren Zackery, Program in Ecology, Evolution & Conservation Biology)

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**54. Advice from Aging with a Disability: A Qualitative Study on Wisdom**  
**Maya Dye**, Junior, Speech & Hearing Science, AHS  
(Research Mentor(s): Hye Soo Lee, Kinesiology & Community Health & Wendy Rogers, Kinesiology & Community Health)

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**55. An Analysis of Cognition and Carotenoid Status Among Individuals with Multiple Sclerosis**  
**Bahda Hoang**, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Shelby Martell, Kinesiology & Community Health & Naiman Khan, Kinesiology & Community Health)

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**56. An Investigation on How to Generate Funds for the Everybody Eats Program**  
**Katie O'Hara**, Senior, Food Science & Human Nutrition, ACES  
(Research Mentor(s): Jill Craft, Food Science & Human Nutrition & Carter Phillips, Food Science & Human Nutrition)

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**57. Analysis of Study Using MyVoice to Collect Data on Youth Caregiving Experiences and Perspectives**  
**Eve Rubovits**, Junior, Community Health, AHS  
**Anna Vanisko**, Sophomore, Community Health, AHS  
(Research Mentor(s): Minakshi Raj, Kinesiology & Community Health)

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**58. Development of Content for a Video-Technology Social Engagement Intervention**  
**Melissa Suarez**, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health)

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**59. Discovering Usability Problems for Older Adults in the Medicare Plan Finder**  
**Olivia Rojas**, Junior, Community Health, AHS  
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health & Hye Soo Lee, Kinesiology & Community Health)

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**60. Evaluation of 2'fucosyllactose and Bifidobacterium longum subsp. infantis Supplementation to Formula on Piglets' Intestinal Immune Cells and Tight Junctions**  
**Lauren Berry**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Marcia Siegel, Food Science & Human Nutrition & Sharon Donovan, Food Science & Human Nutrition)

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**61. Evaluation of Teat Health and Milking Time Data of Dairy Cattle**  
**Elle Couch**, Junior, Animal Sciences, ACES  
(Research Mentor(s): Derek Nolan, Animal Sciences)

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**62. Exploring Amaranth's Color Palette: Links Between Phenotype, Plant Adaptation, and Human Health**

**Sarah Redman**, Parkland College  
(Research Mentor(s): Chance Riggins, Crop Sciences)

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**63. Factors Associated with Fear of Falling and Fall-Related Injuries among Wheelchair and Scooter Users**

**Alyssa Denise Martin**, Junior, Kinesiology, AHS  
(Research Mentor(s): Laura Rice, Kinesiology & Community Health & Sahel Moein, Kinesiology & Community Health)

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**64. How to Combat Overbuying**

**Sana Naffakh**, Freshman, Computer Science, ENG  
(Research Mentor(s): Hari Sundaram, Computer Science)

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**65. Impact of a Personalized Physical Activity Program on Physical Activity Levels for Patients Receiving Maintenance Hemodialysis**

**Ilani Morales**, Junior, Integrative Biology, LAS  
(Research Mentor(s): Ashley Morgan, Kinesiology & Community Health)

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**66. Impact of Insurance Type on Use of Telehealth Based Dietetics Care During COVID-19: A Secondary Analysis**

**Emily Grayburn**, Senior, Community Health, AHS  
(Research Mentor(s): Kristen DiFilippo, Kinesiology & Community Health)

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**67. Investigating Older Adults' Perspectives on Privacy with Digital Home Assistants**

**Husna Hussaini**, Junior, Sociology, LAS  
(Research Mentor(s): Wendy Rogers, Kinesiology and Community Health)

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**68. Investigating Relationships between Colorectal Cancer and Agricultural Practices**

**Jacob Minin**, Senior, Bioengineering, ENG  
(Research Mentor(s): Warren Lavey, College of Law)

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**69. Microbial Protease Supplementation Potentiated the Early Net Exposure to Postprandial Amino Acids in Healthy Adults**

**Aneesa Goyal**, Junior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Max Duetx, Division of Nutritional Sciences & Nicholas Burd, Kinesiology & Community Health)

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**70. Muscle Sodium Reduction by 2-Month Low-Sodium Diet in Hemodialysis (HD) Patients**

**Bailey Damore**, Senior, Kinesiology, AHS  
(Research Mentor(s): Kaitlyn Pawelczyk, Division of Nutritional Sciences)

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**71. Navigating the Graduate Experience: The Connection Between Well-Being and Retention in Engineering Ph.D. Programs**

**Christopher George**, Junior, Bioengineering, ENG  
(Research Mentor(s): Jennifer Cromley, Educational Psychology & Joseph Mirabelli, Educational Psychology)

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**72. Prenatal Triclosan Exposure and Behavior Problems in 2- and 3-Year-old Children**

**Karishma Patel**, Senior, Psychology, LAS  
(Research Mentor(s): Susan Schantz, Comparative Biosciences & Patricia Cintora, Neuroscience Program)

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**73. Social Support and Psychological Measures of Latina Caregivers of People with Alzheimer's Disease and Related Dementias**

**Paulina Renteria**, Senior, Speech & Hearing Science, AHS  
(Research Mentor(s): Susan Aguiñaga, Kinesiology & Community Health & Jacqueline Guzman, Kinesiology & Community Health)

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**74. Systematic Review of Nutrition mHealth Hypertension Intervention for Resource Limited Populations**

**Cecilia Lee**, Senior, Interdisciplinary Health Sciences, AHS  
**Zuzanna Jasek**, Senior, Interdisciplinary Health Sciences, AHS  
**Cacia Kaupp**, Junior, Interdisciplinary Health Sciences, AHS  
**Samuel Adeoye**, Freshman, Kinesiology, AHS  
(Research Mentor(s): Kristen DiFilippo, Kinesiology & Community Health)

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**75. The Assessment of Compliance in a Randomized Complete Feeding Study**

**Arushi Bharel**, Senior, Food Science & Human Nutrition, ACES  
(Research Mentor(s): Hannah Holscher, Food Science & Human Nutrition & Maggie Oleksiak, Food Science & Human Nutrition)

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**76. The Impact of Alcohol Consumption and Impulsivity on Cognitive Performance**

**Yoobeen Choi**, Senior, Psychology, LAS  
(Research Mentor(s): Catharine Fairbairn, Psychology & Anna Garrison, Psychology)

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**77. The Impact of Resident-Led Greening on Subjective Well-Being**

**Jeffrey Hudson Jr.**, Junior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor(s): William Stewart, Recreation, Sport & Tourism)

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**78. Understanding the Needs and Preferences of Clinicians and Patients with Multiple Sclerosis for Building an mHealth Application, SavvyHealth**

**Pooja Patel**, Junior, Molecular & Cellular Biology, LAS  
**Parth Trivedi**, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Chung-Yi Chiu, Kinesiology & Community Health & Vaishnavi Sridharan, Kinesiology & Community Health)

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**79. Understanding the Role of a Socially Assistive Robot to Successfully Age in Place**

**Afnaan Afsar Ali**, Sophomore, Community Health, AHS  
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health & George Mois, Kinesiology & Community Health)

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**80. Z-mRNA for Therapeutic Applications**

**Mary Ehmann**, Senior, Chemical Engineering, LAS  
(Research Mentor(s): Huimin Zhao, Chemical & Biomolecular Engineering & Meng Zhang, Chemical & Biomolecular Engineering)

**81. Perspectives of Childcare Providers on Family Engagement in Feeding Practices**  
**Mary Chung**, Senior, Human Development & Family Studies, ACES  
 (Research Mentor(s): Meghan Fisher, Human Development & Family Studies)

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**PD Session - Social Science & Behavior**  
**9:00 AM – 10:15 AM, South Lounge**

**85. Ideologies of Standard Language in Chicago: How Spanish Heritage Speakers Feel Toward Their Languages**  
**Giselle Torres**, Senior, Psychology, LAS  
 (Research Mentor(s): Sara Castro Cantu, Spanish & Portuguese)

**86. "I'm mad confident in my Spanish:" Social Media Representation of Latino Bilingualism**  
**Jennifer Pena**, Sophomore, Anthropology, LAS  
 (Research Mentor(s): Jonathan Pye, Spanish & Portuguese)

**87. A Socially Conscious Analysis of Wraparound Services Provided to Underrepresented African American Families and Youth**  
**Sindralynn Gerdes**, Junior, African American Studies, LAS  
 (Research Mentor(s): Anthony Sullers Jr., African American Studies)

**88. An Exploration of Transgender Black, Indigenous, and/or People of Color's Health Communication in United States Healthcare Contexts**  
**Jay Zhang**, Freshman, Integrative Biology, LAS  
 (Research Mentor(s): MJ Salas, Communication)

**89. Bilingual Computational Analysis of the #nosabokid Hashtag Community on TikTok**  
**Joshua Brown**, Sophomore, Computer Science & Advertising, COM  
 (Research Mentor(s): Salvatore Callesano, Spanish & Portuguese)

**90. Career Centers & Personal Branding**  
**Brendan Buckley**, Junior, Communication, LAS  
**Joy Wang**, Sophomore, Communication, LAS  
 (Research Mentor(s): Katherine Bunsold, Communication & Chandler MacSwain, Communication)

**91. Discursive Constructions of Health Dismissal: A Case of Reddit Users' Conversations about Women's Negative Healthcare Experiences**  
**Sarah Blyskal**, Freshman, Community Health, AHS  
 (Research Mentor(s): Charee Thompson, Communication & Sara Babu, Communication)

**92. Euphoria: An Investigation of Modern Racism in Popular Media**  
**Makayla Carson**, Junior, Communication, LAS  
 (Research Mentor(s): Daniel DeVinney, Communication)

**93. Examining the Impact of Authoritative Endorsements on Shaping Behavior in YouTube Comment Sections**  
**Sowmya Pratipati**, Junior, Computer Science, ENG  
 (Research Mentor(s): Fred Choi, Computer Science & Eshwar Chandrasekharan, Computer Science)

**94. High-Stakes Finance: How Battlefield Outcomes Affect Rebel Group Financing**  
**Sonja Shirkevich**, Senior, Political Science, LAS  
 (Research Mentor(s): Alyssa Prorok, Political Science)

**95. Implications of Conversational Agents on Loneliness of Older Adults: A Mini-review**  
**Nia Adeogun**, Freshman, Kinesiology, AHS  
**Aditi Patel**, Junior, Community Health, AHS  
 (Research Mentor(s): Sungjae Hong, Kinesiology & Community Health & Shannon Mejia, Kinesiology & Community Health)

**96. Intersectionality and Teen Dating Victimization: A MAIHDA Analysis**  
**Rachel Sun**, Sophomore, Psychology, LAS  
 (Research Mentor(s): Morgan Stutts, Psychology & Joseph Cohen, Psychology)

**97. Leadership Growth Trajectories Over Time**  
**Boqin Yuan**, Junior, Computer Science & Math, LAS  
 (Research Mentor(s): Vivechkanand S. Chunoo, College of Agricultural, Consumer & Environmental Sciences & Nick Bonanno, Illinois Leadership Center)

**98. Motivations Behind Voter Mobilization Post-Dobbs Decision**  
**Claire Accardo**, Senior, Political Science, LAS  
 (Research Mentor(s): Cara Wong, Political Science)

**99. Motivations for Nuclear Renunciation: When Do States Give Up Nuclear Weapons?**  
**Nicholas Larson**, Senior, Political Science, LAS  
 (Research Mentor(s): Nicholas Grossman, Political Science)

**100. Network Analysis of Journalist "bubbles" on Social Media**  
**Srijan Shukla**, Sophomore, Computer Science & Economics, LAS  
 (Research Mentor(s): Sakshi Bhalla, Institute of Communications Research)

**101. Problem-Solving Courts: A Qualitative and Quantitative Examination of Theory and Practice**  
**Mallory Klostermann**, Senior, Statistics, LAS  
 (Research Mentor(s): Allison Carrington, School of Social Work)

**102. Racial/Ethnic Identity and Self-Reported Openness to Experience Among Online and In-Person Learners**  
**Aparajita Vemuri**, Junior, Psychology, LAS  
 (Research Mentor(s): Amos Jeng, Educational Psychology & Michelle Perry, Educational Psychology)

**103. Share Tables: An Exploration of Food Waste Reduction in Schools**  
**Krissi Poelsterl**, Senior, Food Science & Human Nutrition, ACES  
 (Research Mentor(s): Melissa Prescott, Food Science & Human Nutrition)

**104. The Pandemic of Protests**  
**Soo Ah Kim**, Freshman, Chemistry, LAS  
 (Research Mentor(s): Seyoung Jung, Political Science)

**105.** *Why Does it Matter?: The Value of Spanish-English Bilingualism in The Labor Market*

**Daniela Hernandez**, Senior, Community Health, AHS  
(Research Mentor(s): Rebeca Agosto-Rosa, Political Science)

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**106.** *The Effect of Crowdedness and Familiarity on Alcohol Consumption: A Longitudinal Look at Everyday Drinking Contexts*

**Gloria Sunderland**, Senior, Psychology, LAS  
(Research Mentor(s): Catharine Fairbairn, Psychology)

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**107.** *The Implications of User Intent, Audience, and Privacy Settings on the Relationship between Social Media Use and Online Social Support*

**Jaime Shields**, Senior, Psychology, LAS  
(Research Mentor(s): Madison Sewell, Educational Psychology & Erin Budesheim, Educational Psychology)

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**108.** *The Power of an Individual's Socialization: Why Racial Identity Impacts Americans' Perceptions of Which Political Issues Are Most Important*

**Sotis Gouriotis**, Senior, Political Science, LAS  
(Research Mentor(s): Robert Carroll, Political Science)

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**109.** *The Psychological Ramifications on Youth Populations Residing in Conflict Areas in the Middle East*

**Zainab Nizamuddin**, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Valerie Bonatti, Global Studies)

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**110.** *Time is Value: Exploring the Barriers of Scalability for Timebanks*

**Luke Emano**, Senior, Information Sciences, SIS  
(Research Mentor(s): Yang Wang, Information Sciences)

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**111.** *The Power of Sadness: Understanding the Influence of Emotions on Political Behavior in the United States*

**William Neff**, Freshman, Political Science, LAS  
(Research Mentor(s): James Steur, Political Science)

## PE Session - Science & Technology

10:45 AM – 12:00 PM, Illini Room A

**1.** *3D Printing of Multi-Materials for Bend-Twist Coupling*

**Didun Oladeji**, Junior, Mechanical Engineering, ENG  
(Research Mentor(s): Daniel Krogstad, Materials Science & Engineering)

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**2.** *3D Visualizations of Rapidly Spinning, Tilted Black Holes with Self-Gravitating Accretion Disks*

**Eric Yu**, Junior, Engineering Physics, ENG  
**Nawaf Aldrees**, Junior, Engineering Physics, ENG  
**Jonah Doppelt**, Junior, Engineering Physics, ENG  
(Research Mentor(s): Stuart Shapiro, Physics & Antonios Tsokaros, Physics)

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**3.** *Additive Manufacturing of Energetic Filament*

**Rachel Hays**, Senior, Aerospace Engineering, ENG  
(Research Mentor(s): Chelsey Hargather, New Mexico Tech)

**4.** *Expanding the Chemistry for Automated Shape-Controlled Synthesis of Bottlebrush Polymers*

**Crista Mathers**, Freshman, Undeclared, DGS  
(Research Mentor(s): Yash Kamble, Chemical & Biomolecular Engineering)

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**5.** *An Investigation of Branch Balancing on CTSpec*

**Ananya Gahalaut**, Sophomore, Computer Engineering, ENG  
(Research Mentor(s): Sushant Dinesh, Computer Science)

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**6.** *An Investigation of Collaborative Editing Implementations*

**Christian Classen**, Junior, Computer Science, ENG  
(Research Mentor(s): Lawrence Angrave, Computer Science)

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**7.** *An Investigation of the Effect of Metal Identity and Solvent Environment on Zeolite-Catalyzed Epoxide Ring-Opening*

**Jessica Komar**, Junior, Chemical Engineering, LAS  
(Research Mentor(s): Dave Flaherty, Chemical & Biomolecular Engineering & David Potts, Chemical & Biomolecular Engineering)

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**8.** *Applications of Physics-Informed Neural Operators*

**Hani Al Majed**, Senior, Electrical Engineering, ENG  
(Research Mentor(s): Eliu Huerta, National Center for Supercomputing Applications)

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**9.** *Atom-by-Atom Tracking of Lattice Reconstruction in Twisted Moiré Superlattices*

**Alice Gao**, Sophomore, Materials Science & Engineering, ENG  
(Research Mentor(s): Yichao Zhang, Materials Science & Engineering & Pinshane Huang, Materials Science & Engineering)

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**10.** *Cataloging Volcanic Structures on the Surface of Venus Using Machine Learning*

**Dominik Rzeszutek**, Junior, Geology, LAS  
(Research Mentor(s): Patricia Gregg, Geology & Matthew Head, Geology)

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**11.** *CATS: Context Aware Teleconferencing System*

**Shiv Trivedi**, Sophomore, Computer Science & Linguistics, LAS  
(Research Mentor(s): Klara Nahrstedt, Computer Science & Mingyuan Wu, Computer Science)

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**12.** *Conversion of Waste Plastics to Fuels*

**Shivam Patro**, Sophomore, Chemical Engineering, LAS  
(Research Mentor(s): Ravindra Prajapati, Prairie Research Institute)

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**13.** *Deep Learning Applications to Atmospheric Science & Remote Sensing*

**Matthew Tan**, Freshman, Computer Science, ENG  
(Research Mentor(s): Daniel Kiv, Computer Science)

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**14.** *Deep Learning in Remote Sensing*

**Deeya Bodas**, Sophomore, Computer Science, ENG  
**Jingtong Wang**, Freshman, Computer Science, ENG  
(Research Mentor(s): Adam Stewart, Computer Science & Arindam Banerjee, Computer Science)

**15. Development of the DE-SPECT System: A Clinical SPECT System Dedicated for Imaging of Peripheral Vascular Diseases**  
**Ryan Wu**, Sophomore, Nuclear, Plasma & Radiological Engineering, ENG  
**Drew Gura**, Freshman, Nuclear, Plasma & Radiological Engineering, ENG  
(Research Mentor(s): Elena Zannoni, Nuclear, Plasma & Radiological Engineering)

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**16. Development of Ultra-High Performance Concrete**  
**Geovany Arias**, Junior, Engineering Mechanics, ENG  
(Research Mentor(s): Bayezid Baten, Civil & Environmental Engineering)

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**17. Direct-Write 3D Printing of Thermosets with Frontal Polymerization**  
**Andrew Lum**, Sophomore, Materials Science & Engineering, ENG  
(Research Mentor(s): Edgar Mejia, Material Science & Engineering)

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**18. Distribution Pole Quality Assessment for Improved Infrastructure Quality Characterization**  
**Julianna Longo**, Freshman, Undeclared, DGS  
(Research Mentor(s): Abigail Beck, Civil & Environmental Engineering)

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**19. Effect of Gas Flow Rate on Ammonia Synthesis Using Plasma**  
**Michelle Giovacchini**, Sophomore, Astronomy, LAS  
(Research Mentor(s): Brandon Kamiyama, Nuclear, Plasma & Radiological Engineering)

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**20. Elucidating the Elastic Properties of Two-component Membranes**  
**Michelle Ru**, Freshman, Computer Science & Chemistry, LAS  
(Research Mentor(s): Nurila Kamar, Materials Science & Engineering & Cecilia Leal, Materials Science & Engineering)

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**21. Faraday's Law: From Confusion to Immersion in Virtual Reality**  
**Ayush Garg**, Sophomore, Electrical Engineering, ENG  
(Research Mentor(s): Raluca Ilie, Electrical & Computer Engineering)

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**22. Geological Mapping in the Deep Ocean Using Structure from Motion Photogrammetry**  
**Lilian Lucas**, Senior, Geology, LAS  
(Research Mentor(s): Uri ten Brink, U.S. Geological Survey & Claudia Flores, U.S. Geological Survey)

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**23. Glutamate Detection with Enzymatic Microelectrodes using in vivo and in vitro Techniques**  
**Roy Zhou**, Junior, Bioengineering, ENG  
(Research Mentor(s): Mei Shen, Chemistry)

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**24. Hg UMEs: A Tool for Developing Next-Generation Batteries**  
**Curtis Althaus**, Sophomore, Chemistry, LAS  
(Research Mentor(s): Rodriguez-Lopez, Chemistry)

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**25. Hormone Fluctuation and Microstructural Brain Changes in the Hippocampus**  
**Zoe Levitan**, Junior, Psychology, LAS  
(Research Mentor(s): Hillary Schwarb, Beckman Institute & Aaron Anderson, Beckman Institute)

**26. Impact of Omega-3 Supplementation on Behavior and Inflammation in Pigs**  
**Nicole Southey**, Junior, Bioengineering, ENG  
(Research Mentor(s): Sandra Rodriguez-Zas, Animal Sciences)

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**27. Investigating the Morphology of Cell Subtypes in the Cerebral Cortex**  
**Mia Rode**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Daniel Miller, Evolution, Ecology & Behavior & Simran Singh, Evolution, Ecology & Behavior)

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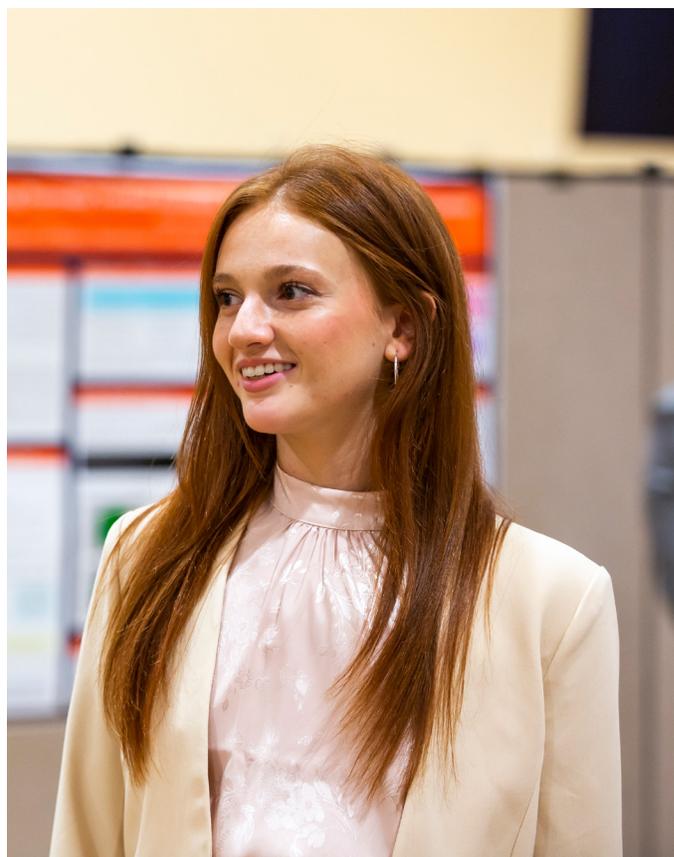
**28. James Webb Space Telescope (JWST) Mid Infrared Instrument (MIRI) Imaging Flux Calibration**  
**Lily Kettler**, Sophomore, Astronomy, LAS  
(Research Mentor(s): Joaquin Vieira, Astronomy & Kedar Phadke, Astronomy)

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**29. Magnetic Resonance Elastography Explains More Variance when Characterizing the Relationship between Relational Memory and Hippocampal Structure**  
**Joy Akindulureni**, Sophomore, Psychology, LAS  
(Research Mentor(s): Hillary Schwarb, Beckman Institute)

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**30. Muscle Activation During Handcycling High Intensity and Moderate Intensity Exercise**  
**Ayush Banerjee**, Sophomore, Mechanical Engineering, ENG  
(Research Mentor(s): Kellie Halloran, Mechanical Science & Engineering & Mariana Kersh, Mechanical Science and Engineering)



**32. New Monomers for Frontal Ring-Opening Metathesis Polymerization**

**Parmeet Kaur**, Junior, Chemistry, LAS  
(Research Mentor(s): Jacob Lessard, Chemistry & Jeffrey Moore, Chemistry)

**33. Patterning of Structure, Properties, and Function in Polymeric Materials**

**Anisha Sharma**, Senior, Materials Science & Engineering, ENG  
(Research Mentor(s): Justine Paul, Materials Science & Engineering)

**34. Predicting Tropical Cyclone Tracks with Temporal Machine Learning Models**

**Grace Go**, Senior, Statistics & Computer Science, LAS  
(Research Mentor(s): Arindam Banerjee, Computer Science & Daniel Kiv, Computer Science)

**35. The Effects of Spontaneous Brain Activity on Evoked Brain Activity**

**Grace Homa**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Martin Irani Cereceda, Psychology & Sepideh Sadaghiani, Psychology)

**36. The Use of AI Applications to Assess Acute Feline Pain**

**Willia Mankin**, Junior, Animal Sciences, ACES  
(Research Mentor(s): Isabella Condotta, Animal Sciences)

**37. Three-Dimensional Anatomical Reconstruction of Mice Brain**

**Dziyana Balakir**, Junior, Biochemistry, LAS  
(Research Mentor(s): Catherine Best-Popescu, Bioengineering & Jorge Maldonado De-Jesus, Bioengineering)

**38. Use of Magnetic Resonance Elastography in Early Detection of Mesial Temporal Lobe Epilepsy (MTLE)**

**Manan Sanghavi**, Junior, Brain & Cognitive Sciences, LAS  
(Research Mentor(s): Aaron Anderson, Beckman Institute)

**39. Visualizing Kernels of Spherical Projections of Planar Graphs**

**Eli Kujawa**, Sophomore, Computer Science & Math, LAS  
(Research Mentor(s): Jeff Erickson, Computer Science)

**40. Visualizing the Structures of Twitter Conversations**

**Esther Lee**, Sophomore, Statistics & Computer Science, LAS  
(Research Mentor(s): Hari Sundaram, Computer Science)

**41. Homotopy, Modular Forms, and the Spectrum  $Q(l)$**

**Garrett Credi**, Junior, Mathematics, LAS  
**Casey Appleton**, Sophomore, Mathematics, LAS  
(Research Mentor(s): Vesna Stojanoska, Mathematics & Venkata Sai Bavisetty, Mathematics)

**PF Session - Social Science & Human Behavior**

10:45 AM - 12:00 PM, Illini Room C

**50. A Meta-analytic Study of the Relationship between Vocational Interests and Values**

**Yifan Zhang**, Senior, Psychology, LAS  
(Research Mentor(s): James Rounds, Educational Psychology)

**51. Abortion: Stigma and Disclosure**

**Sydney Turner**, Sophomore, Psychology and Communication, LAS  
(Research Mentor(s): Megan Jacobs Farnworth, Communication)

**52. Aging Effects on ERSPs During Strategic Attention**

**Sharbel Yako**, Senior, Molecular & Cellular Biology, LAS  
**Holly Panfil**, Junior, Speech & Hearing Science, AHS  
**Natalia Rzepa**, Junior, Speech & Hearing Science, AHS  
(Research Mentor(s): Raksha Mudar, Speech & Hearing Science)

**53. An Investigation of Personality traits and Career Aspiration and Expectation**

**Isabelle Li**, Sophomore, Psychology, LAS  
(Research Mentor(s): Madison Sewell, Educational Psychology)

**54. Associations Between Discourse Production and Cognitive Performance in Persons with Mild Cognitive Impairment**

**Alexandra Trekas**, Senior, Speech & Hearing Science, AHS  
**Leslie Olivares**, Freshman, Interdisciplinary Health Sciences, AHS  
**James Shim**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Raksha Mudar, Speech & Hearing Science & Eliza Baby, Speech & Hearing Science)

**55. Classifying Politics in Online Communities**

**Maxine Ma**, Senior, Communication & Political Science, LAS  
(Research Mentor(s): Stewart Coles, Communication)

**56. Combating Misinformation**

**Garima Sharma**, Junior, Computer Science & Advertising, COM  
(Research Mentor(s): Hari Sundaram, Computer Science & Ewa Maslowska, Advertising)



57. *Commitment and Practice of Universal Jurisdiction*  
**Michael Gergeni**, Freshman, Sociology, LAS  
(Research Mentor(s): Myung Jung Kim, Political Science)

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58. *Comparing and Contrasting Different Modified Nominal Group Techniques*  
**Ruiqi Pan**, Sophomore, Communication, LAS  
(Research Mentor(s): Chandler Macswain, Communication)

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59. *Multispecies Relationships in Wildlife Tourism: A Netnographic Study with Insights from Tourists' Online Reviews*  
**Samuel Tinubu**, Freshman, Undeclared, DGS  
(Research Mentor(s): Emma Lundin, Recreation, Sport & Tourism)

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60. *Here, There, Everywhere: Sense of Presence*  
**Nancy Zhang**, Freshman, Computer Science & Advertising, COM  
(Research Mentor(s): Hyunseo (Violet) Yoon, Recreation, Sport & Tourism)

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61. *Historical Media Representations of the Hmong Diaspora in Minnesota*  
**Victoria Siek**, Freshman, History, LAS  
(Research Mentor(s): Christopher Getowicz, Education, Policy, Organization, and Leadership)

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62. *In A League of Their Own: A Study of Peer Attitudes Toward F-1 Visa Holders*  
**Justin Malone**, Senior, Political Science, LAS  
(Research Mentor(s): Yujeong Yang, Political Science)

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63. *Internal Migrants in China: A Structural Violence Approach to Addressing the COVID-19 Pandemic's Exacerbation of Social Inequities*  
**Callie Goering**, Senior, Global Studies, LAS  
(Research Mentor(s): Valeria Bonatti, Global Studies)

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64. *Intimate Partner Violence Against Transgender and Gender Expansive Individuals: A Review of Existing Literature*  
**Maya Novick**, Sophomore, Social Work, SSW  
(Research Mentor(s): Rachel Garthe, School of Social Work & Allyson Blackburn, Psychology)

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65. *Korean Sign Language Under Japanese Occupation 1894-1945: A Sociolinguistic Critique on Global Sign Language Study*  
**Dahlia Davis**, Senior, Linguistics, LAS  
(Research Mentor(s): Rakesh Mohan Bhatt, Linguistics)

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66. *Law Enforcement Gun Violence Reduction Strategies*  
**Markas Lazdinis**, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Anthony Sullers Jr., African American Studies)

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67. *Native American Narratives in Museum Interpretation: Case Studies in Illinois*  
**Mary Burdette**, Senior, Anthropology, LAS  
(Research Mentor(s): Brandon Ritchison, Anthropology & John Randolph, History)

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68. *Shifts in Framing and Perceptions of Experience and Agency*  
**Amba Kapoor**, Freshman, Psychology, LAS  
**Sofia Anderson**, Sophomore, Psychology, LAS  
**Aditi Chadha**, Sophomore, Psychology, LAS  
**Arlyssia Kelly**, Sophomore, Psychology, LAS  
**Bella Lopez**, Freshman, Psychology, LAS  
**Mia Nieto**, Sophomore, Psychology, LAS  
**Angie Ramirez**, Sophomore, Psychology, LAS  
**Heaven Velez**, Sophomore, Psychology, LAS  
**Isabela Castilla**, Sophomore, Psychology, LAS  
(Research Mentor(s): Chadly Stern, Psychology & Keely Dugan, Psychology)

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69. *URAP Project*  
**Yunhao Liu**, Junior, Computer Science & Economics, LAS  
(Research Mentor(s): Hyo-Won Shin, Political Science)

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70. *The Effects of Self-Consciousness on Heavy Drinking*  
**Hieu Nguyen**, Senior, Psychology, LAS  
(Research Mentor(s): Catharine Fairbairn, Psychology)

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71. *The Impact of Criminal History on Child Custody Outcomes in Divorce Cases*  
**Paris Souza**, Junior, Human Development & Family Studies, ACES  
**Chavon Bowers-Strong**, Senior, Human Development & Family Studies, ACES  
(Research Mentor(s): Tani Akinbode, Human Development & Family Studies & So Young Park, Human Development & Family Studies)

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72. *The impact of Incoming Leadership Capacity on Student Learning in Entry Level Leadership Courses*  
**Madeline Cook**, Sophomore, Agricultural Leadership, Education, & Communications, ACES  
**Rachel Nieder**, Sophomore, Psychology, LAS  
(Research Mentor(s): David Rosch, Agricultural Leadership, Education & Communications & Robert Klein, Agricultural Leadership, Education & Communications)

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73. *The Impact of the Russian Food Embargo on International Agri-Food Trade*  
**Brendon Carter**, Junior, Agricultural & Consumer Economics, ACES  
(Research Mentor(s): William Ridley, Agricultural & Consumer Economics)

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74. *The Relationship Between Closed and Open-Ended Survey Questions and Responses*  
**Thomas Marousek**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Isaiah Raynal, Political Science)

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75. *There's No "I" in Erdoğan: Predicting Power Personalization with Pronoun Usage in Turkey*  
**Emily Sallenback**, Senior, Political Science, LAS  
(Research Mentor(s): Avital Livny, Political Science)

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76. *University Ideology Relating to Sexual Misconduct Policies*  
**Claire Fleming**, Senior, Political Science, LAS  
(Research Mentor(s): Robert Pahre, Political Science)

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**77. Cultural Tensions in Midwestern Prairie Restoration**  
**Maisie Lothian**, Junior, Earth, Society & Environmental Sustainability, LAS  
 (Research Mentor(s): Jeongsu Shin, Anthropology)

**78. Vicarious Learning in Misdemeanor and Relationship with BESSI Domains**  
**Seungah Oh**, Senior, Psychology, LAS  
 (Research Mentor(s): Heejun Yoon, Psychology)

## PG Session - Learning & Development

10:45 AM – 12:00 PM, South Lounge

**85. An Analysis of Academic Testing Methods and Intrinsic Student Motivation**  
**Kajal Patel**, Freshman, Computer Science, ENG  
**Ruchika Biswas**, Junior, Computer Science, ENG  
 (Research Mentor(s): Geoffrey Herman, Computer Science)

**86. An Exploration of Teachers' Experience Teaching Abroad**  
**Maia Lewis**, Freshman, Elementary Education, EDU  
 (Research Mentor(s): Allison Witt, Center for Global Studies)

**87. An Investigation of Air Pollution, Diet Quality, and Antioxidant Intake on Adipose Tissue Inflammation**  
**Anastasia Adjei**, Senior, Community Health, AHS  
 (Research Mentor(s): Sheena Martenies, Kinesiology & Community Health)

**88. Aphantasia and Its Influence on Human Visual Memory**  
**Hannah Yan**, Senior, Psychology, LAS  
 (Research Mentor(s): Diane Beck, Psychology)

**89. Acquisition of Object Knowledge Through Infant's Visual Experiences**  
**Morgan Lott**, Senior, Psychology, LAS  
 (Research Mentor(s): Jon Willits, Psychology)

**90. Bilingual Reading Development in Students Enrolled in Dual Language Programs**  
**Esther Nam**, Freshman, Psychology, LAS  
 (Research Mentor(s): Laura Valderrama, Educational Psychology)

**91. Co-Author or Helping Hand: Students' Perceptions of Writing Tutor Assistance**  
**Elizabeth Scherschel**, Sophomore, Classics, LAS  
 (Research Mentor(s): Carolyn Wisniewski, Center for Writing Studies)

**92. Effects of Background Music Familiarity on Children's Word Recognition**  
**Leyna Tran**, Freshman, Speech & Hearing Science, AHS  
**Isabella Lau**, Sophomore, Speech & Hearing Science, AHS  
**Atlas Pilchen**, Freshman, Interdisciplinary Health Sciences, AHS  
 (Research Mentor(s): Mary Flaherty, Speech & Hearing Science)

**93. Effects of Perinatal Phthalate Exposure on Adult Hippocampal Anatomy in Rats**  
**Rajvi Javeri**, Senior, Psychology, LAS  
 (Research Mentor(s): Janice Juraska, Psychology)

**94. Empowering Middle School Students: Exploring the Benefits, Importance, and Challenges of Global Collaboration through the IGlobal Project**  
**Laura Kim**, Junior, Elementary Education, EDU  
 (Research Mentor(s): Allison Witt, Education Policy, Organization & Leadership)

**95. Evaluating Student Home Life in Relation to Academic Achievement and Socio-Emotional Well-Being**  
**Guadalupe Nunez Palomares**, Freshman, Elementary Education, EDU  
 (Research Mentor(s): Ali Lewis, University Primary School)

**96. Examining the Viability of Tangible Self-Report Tools for Self-Regulated Learning Behaviors**  
**Chia Yang**, Freshman, Information Sciences, SIS  
 (Research Mentor(s): Paul Hur, School of Information Sciences & Michael Twidale, School of Information Sciences)

**97. Exploring College Students' Understanding of Randomness**  
**Zean Li**, Junior, Mathematics, LAS  
**Wenqi Zeng**, Junior, Statistics, LAS  
 (Research Mentor(s): Stephen Portnoy, Statistics & Kelly Findley, Statistics)

**98. Exploring the Impact of Reward History on Visual Working Memory with the Drift-diffusion Model**  
**Haeri Choi**, Senior, Psychology, LAS  
 (Research Mentor(s): Aaron Benjamin, Psychology & Jonathan Yuquimpo, Psychology)

**99. Exploring the Relationship Between Rate of Change of Skin Carotenoid Levels and Development in Toddlers**  
**Shaina Medjes**, Junior, Kinesiology, AHS  
**Jenya Varaniuk**, Sophomore, Chemistry, LAS  
 (Research Mentor(s): Laura Rosok, Neuroscience Program & Naiman Khan, Kinesiology & Community Health)

**100. Gamification of Security Education**  
**Hassam Uddin**, Sophomore, Computer Science, ENG  
**Pete Stenger**, Junior, Computer Science, ENG  
**Anusha Ghosh**, Senior, Computer Science, ENG  
**Emma Hartman**, Sophomore, Computer Science, ENG  
**Minh Duong**, Sophomore, Computer Science, ENG  
 (Research Mentor(s): Lawrence Angrave, Computer Science)

**101. Shifts in Teachers' Physical Positioning Related to Student Learning and Agency**  
**Olivia Lim**, Freshman, Middle Grades Education, EDU  
 (Research Mentor(s): Christina Krist, Curriculum & instruction)

**102. International Teacher Shortage: Europe and the US in Comparison**  
**Grace Moran**, Sophomore, Elementary Education, EDU  
 (Research Mentor(s): Allison Witt, Education Policy, Organization & Leadership)

**103. It Takes Time and Resources: A Systematic Literature Review of College Students' Career Goals and Self-Regulatory Strategies**  
**Estella Lee**, Junior, Psychology, LAS  
 (Research Mentor(s): Madison Sewell, Educational Psychology)

**104. Learning To Sign Through Games: An ASL STEM Vocabulary App**

**Mona Jawad**, Senior, Bioengineering, ENG  
**Amy Lee**, Senior, Bioengineering, ENG  
**Sumayyah Hussain**, Junior, Mechanical Engineering, ENG  
**Anisha Jog**, Sophomore, Computer Science, ENG  
**Aneesh Nagalkar**, Freshman, Computer Engineering, ENG  
(Research Mentor(s): Holly Golecki, Bioengineering)

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**105. Mothers' and Fathers' Emotional Language Use Pattern Based on Child's Gender**

**Seoyoung Kim**, Senior, Psychology, LAS  
(Research Mentor(s): Jessica Montag, Psychology)

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**106. Problematic Teaching Curriculums in Naperville Central High Schools World Cultures Course**

**Bilkisu Tariq**, Sophomore, Elementary Education, EDU  
(Research Mentor(s): Asif Wilson, Curriculum & Instruction)

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**107. Question Generation to Improve Learning Outcomes**

**Zubair Yacub**, Freshman, Psychology, LAS  
(Research Mentor(s): Jessie Chin, School of Information Sciences & Tre Tomazewski, School of Information Sciences)

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**108. Relationship between Caregiver Education and Expressive Language in Children with Down Syndrome**

**Madison Barrera**, Senior, Speech & Hearing Science, AHS  
**Alexa Mendoza**, Senior, Speech & Hearing Science, AHS  
**Abigail Keasler**, Junior, Speech & Hearing Science, AHS  
(Research Mentor(s): Marie Moore Channell, Speech & Hearing Science)

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**109. Sex Differences in Early Numerical Abilities**

**Ayla Makris**, Senior, Psychology, LAS  
(Research Mentor(s): Daniel Hyde, Psychology)

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**110. Shaping Students for the Future**

**Jordan Smith**, Freshman, Elementary Education, EDU  
(Research Mentor(s): Rebecca Hinze-Pifer, Education Policy, Organization & Leadership)

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**111. Socialization of Coping and How it Mediates Responses to Stress Both Behaviorally and Physiologically**

**Katherine Hilbing**, Senior, Psychology, LAS  
(Research Mentor(s): Karen Rudolph, Psychology & Pearl Ye, Psychology)

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**112. The "Potential" of Virtual Reality for Education**

**Alyssa Huang**, Sophomore, Electrical Engineering, ENG  
(Research Mentor(s): Raluca Ilie, Electrical & Computer Engineering)

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**113. The Support of Disability Related Peer Groups in Higher Education**

**Megan Hendry**, Freshman, Learning & Behavior Specialist I, EDU  
(Research Mentor(s): Emily Tarnish, Special Education)

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**114. Virtual Reality as a Learning Tool for General Relativity**

**Rajan Patkar**, Sophomore, Computer Engineering, ENG  
(Research Mentor(s): Eric Shaffer, Computer Science & Kristen Schumacher, Physics)

## PH Session - Health & Wellness

12:15 PM – 1:30 PM, Illini Room A

**1. Accelerometer-Measured Physical Activity is Associated with Lutein Intake in Young and Middle-Age Adults with Overweight and Obesity**

**Sanam Desai**, Senior, Kinesiology, AHS  
(Research Mentor(s): Dominika Pindus, Kinesiology & Community Health)

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**2. Accessing Health Information: Challenges & Solutions Among People Aging with Vision Loss**

**Divya Bhookya**, Junior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Elena Remillard, Georgia Institute of Technology & Wendy Rogers, Kinesiology & Community Health)

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**3. An Investigation of Personality, Physical Activity, and Heart Rate Variability**

**Erin Markowitz**, Senior, Molecular & Cellular Biology, LAS  
**Abigail Keck**, Senior, Kinesiology, AHS  
(Research Mentor(s): Steven Petruzzello, Kinesiology & Community Health, Jonathan North, Kinesiology & Community Health & John Adamek, Kinesiology & Community Health)

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**4. Applying Intersectionality to Promote Perinatal Health Equity**

**Ainslee Wong**, Junior, Psychology, LAS  
(Research Mentor(s): Tuyet-Mai Ha Hoang, School of Social Work)



**6. Determining the Effects of Traumatic Brain Injury on Hippocampal-mediated Relational Memory**

**Yunji Nam**, Senior, Bioengineering, ENG  
(Research Mentor(s): Hillary Schwarb, Psychology)

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**7. Differences In The Development Of Disability Among African Americans And Its Contributing Factors**

**Favour Ojerinde**, Junior, Community Health, AHS  
(Research Mentor(s): Shannon Mejia, Kinesiology & Community Health & Tai-Te Su, Kinesiology & Community Health)

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**8. Efficacy of Combinatorial Hormone Therapies on ER+ Metastatic Breast Cancer Cell Lines**

**Alanna Kaminsky**, Senior, Food Science & Human Nutrition, ACES  
(Research Mentor(s): Zeynep Madak-Erdogan, Food Science & Human Nutrition & Ayca Nazli Mogol, Division of Nutritional Sciences)

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**9. Examining the Relationship Between Coping Mechanisms, Anxiety, and Executive Function**

**Autumn Franco**, Senior, Psychology, LAS  
(Research Mentor(s): Wendy Heller, Psychology & Haley West, Psychology)

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**10. Exploring Self-Efficacy for Physical Activity Among Cancer Survivors Participating in a Virtual 12 Week Program**

**Rahil Sadruddin**, Junior, Kinesiology, AHS  
(Research Mentor(s): Veronica Garcia, Kinesiology and Community Health & Neha Gothe, Kinesiology and Community Health)

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**11. Health Literacy Assessment Tools for People with Visual Impairments: A Literature Review**

**Kristel Ong**, Sophomore, Community Health, AHS  
(Research Mentor(s): Soyoung Choi, Kinesiology & Community Health)

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**12. Murine Influenza A Virus Infection During Pregnancy Disrupts Immune Profiles in the Maternal Intestine in a Dose Dependent Manner**

**Meenakshi Gupta**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Ashley Otero, Neuroscience Program & Adrienne Antonson, Neuroscience Program)

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**13. Persistent Exposure to Paraben Mixture Inducing Premature Development of Uterus**

**Zainab Umardeen**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Indrani Bagchi, Comparative Biosciences & Ritwik Shukla, Comparative Biosciences)

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**14. Quantifying the Anti-inflammatory Effects of Fluoxetine, Propranolol, and Anticorticosteroid Treatment Using Quantitative Phase Microscopy in a Chronic Social Stress Model**

**Tanishka Trivedi**, Junior, Bioengineering, ENG  
(Research Mentor(s): Catherine Alicia Best-Popescu, Bioengineering & Jorge Alexis Maldonado DeJesus, Neuroscience Program)

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**15. The Development and Implementation of Fire Evacuation in Wheelchair and Scooter Users (FEW) Program**

**Jesiah Bradshaw**, Freshman, Kinesiology, AHS  
(Research Mentor(s): Laura Rice, Kinesiology & Community Health & Weiwei Li, Kinesiology & Community Health)

**16. The Effects Diet and Air Quality Have on Systemic Inflammation and Childhood Asthma**

**Kalia Davis**, Freshman, Community Health, AHS  
(Research Mentor(s): Sheena Martenies, Kinesiology & Community Health & Diana Morales, Kinesiology & Community Health)

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**17. The Effects of Acetyl-CoA Synthetase on Estrogen Receptor Positive Metastatic Breast Cancer Cell Lines with Endocrine Therapy**

**David Dutton**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Zeynep Madak-Erdogan, Food Science & Human Nutrition & Ayca Mogol, Food Science & Human Nutrition)

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**18. The Relationship Between Self-Tracking Health, eHealth Literacy, and Subjective Well-Being in College Students with Disabilities**

**Alyssa Holguin**, Junior, Interdisciplinary Health Sciences, AHS  
**Emilee Bates**, Junior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Soyoung Choi, Kinesiology & Community Health)

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**19. Understanding the Effect of Viral Challenges on the Gene Pathways of the Hypothalamus**

**Sreelaya Bhamidi**, Junior, Integrative Biology, LAS  
(Research Mentor(s): Sandra Rodriguez-Zas, Animal Sciences)

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**20. Utilization of cSLIM to Detect Early Onset of Alzheimer's**

**Dmitry Yurchanka**, Sophomore, Bioengineering, ENG  
**Ammaar Malik**, Junior, Psychology, LAS  
(Research Mentor(s): Catherine Best-Popescu, Bioengineering & Jorge Maldonado DeJesus, Bioengineering)

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**21.  $\beta$ -Carotene Distribution and Excretion through Transintestinal Cholesterol Excretion**

**Allannah Martin**, Sophomore, Food Science & Human Nutrition, ACES  
(Research Mentor(s): Jaume Amengual, Food Science & Human Nutrition)

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**22. Accelerometer-measured Physical Activity and Sedentary Time Are Not Associated with General Intelligence in College-Educated Adults with Overweight and Obesity**

**Anne-Farah Usman**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Dominika Pindus, Kinesiology & Community Health & Bryan Montero, Kinesiology & Community Health)

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**PI Session - Cells & Molecules**

**12:15 PM – 1:30 PM, Illini Room A**

**25. A Well-Defined Method for Mouse Sperm Cryopreservation**

**Jacob May**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Joe (Huanyu) Qiao, Comparative Biosciences & Reza Rajabi, Comparative Biosciences)

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**26. Application of Gelatin-based Granular Hydrogel for Hematopoietic Stem Cell Expansion In Vitro**

**Vincent Lam**, Senior, Bioengineering, ENG  
(Research Mentor(s): Gunnar Thompson, Chemical & Biomolecular Engineering)

**27. Auditory Behavioral Differences in Genetically-distinct Rat Models of Autism Spectrum Disorders**

**Sarika Kumar**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Benjamin Auerbach, Molecular & Integrative Physiology & Noelle James, Molecular & Integrative Physiology)

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**28. Biological Role of Human Lucyl-tRNA Synthetase in Gastric Cancer**

**Jeonghyun Kim**, Senior, Biochemistry, LAS  
(Research Mentor(s): Susan Martinis, Biochemistry & Issac (Giyeong) Kim, Biochemistry)

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**29. Discovery of a Novel POLR3G Isoform Encoding a Cancer-associated Pol III Subunit**

**Anshita Jayanth**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Ruiying Cheng, Cell & Developmental Biology)

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**30. Engineering VDE to Improve Photosynthetic Efficiency**

**Hannah Rockwell**, Sophomore, Agricultural & Biological Engineering, ENG  
(Research Mentor(s): Laurie Leonelli, Agricultural & Biological Engineering)

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**31. Horizontal Gene Transfer of CRISPR Spacers Plays an Important Role in Bacterial Population Immunity**

**Amelia Steinlein**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Rachel Whitaker, Microbiology & Alan Collins, Carl R. Woese Institute for Genomic Biology)

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**32. Investigating Activity-dependent Myelination Following Viral Encephalitis and Seizures in the Theiler's Murine Encephalomyelitis Virus (TMEV) Mouse Model of Viral-induced Epileptogenesis**

**Arianna Fritz**, Senior, Psychology, LAS  
(Research Mentor(s): Karen Wilcox, University of Utah)

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**33. Investigating the Effect of Intranasal Insulin on Cognitive-Declined Animal Model**

**Jennifer Huan**, Senior, Psychology, LAS  
(Research Mentor(s): Uwe Rudolph, Comparative Biosciences)

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**34. Investigating the Role of the Beta Subunit of the Nascent Polypeptide-associated Complex During Misfolded Protein Stress Response in *C. elegans***

**Celina Bui**, Parkland College  
(Research Mentor(s): Tim Bloss, James Madison University)

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**35. Live-partial Sequencing Reveals Temporal Transcriptional Dynamics During Oocyte Maturation**

**Rujuta Chikodikar**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Joe (Huanyu) Qiao, Comparative Biosciences & Shuangqi Wang, Comparative Biosciences)

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**36. Paraventricular Thalamus at the Center of Integrating Energy State with Anxiety-Behavior**

**Kyle O'Berry**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Patrick Sweeney, Molecular & Integrative Physiology)

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**37. Spatial Distribution of HIV across Microglia and Astrocytes**

**Iris Mutiu**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Collin Kieffer, Microbiology & Tongyu Anna Zhang, Microbiology)

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**38. Synthesizing and Characterizing the Role of  $\Delta$ HA in Modulating the Host Immune Response During Influenza Infection**

**Neeha Kakuturu**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Christopher Brooke, Microbiology & Joel Rivera Cardona, Microbiology)

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**39. The Effects of Repeated Exposure to Methamphetamine on Neuroimmune Function in Rats**

**Anna Tsyrlunikov**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Joshua Gulley, Psychology & Adrienne Antonson, Animal Sciences)

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**40. The Role of PTBP1 in Regulation Intestinal Mobility**

**Jie Ji**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Wenyan Mei, Comparative Biosciences)

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**41. The Search for Waldo's...Hyperactive Twin?? Defining the Difference in Intracellular Activity during *Helicobacter pylori* Infection**

**Ivilyn Tan**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Steven Blanke, Microbiology & Megan Ringling, Microbiology)

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**42. Investigating a Putative Role of Nedd4-2 in Mfn2 Regulation**

**Olivia Wong**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Yenny Yook, Molecular & Cellular Biology)

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**43. Vacuolating Cytotoxin A: A Dr. Jekyll and Mr. Hyde Story**

**Joe Clark**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Steven Blanke, Microbiology & Megan Ringling, Microbiology)

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**44. Vitamin A Effects on Hepatic Lipid Metabolism and Development of Liver Steatosis**

**Olivia Edakkunnathu**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Jaime Amengual, Food Science & Human Nutrition & Walter Catalan Monroy, Food Science & Human Nutrition)

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## **PJ Session - Nature, Life & Environment** 12:15 PM – 1:30 PM, Illini Room C

**50. "Tap Dancing" in *Dendrobates tinctorius*: An Investigation into Posterior Toe Tapping and Feeding Behavior**

**Thomas Parrish**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Eva Fischer, Evolution, Ecology & Behavior)

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**51. A Comparison of Evolutionarily Divergent Nematode Nervous Systems**

**Kanika Leang**, Senior, Biochemistry, LAS  
(Research Mentor(s): Nathan Schroeder, Crop Sciences)

**52. An Ecological Research on Antifreeze in the Dead Wood Dwelling Insects Across Taxonomic Groups**  
**Hanson Shen**, Senior, Natural Resources & Environmental Sciences, ACES  
 (Research Mentor(s): C.-H. Christina Cheng, Evolution, Ecology & Behavior)

**53. An Investigation in Viability of Mutant Zebrafish Embryos**  
**Amanda Finn**, Senior, Animal Sciences, ACES  
 (Research Mentor(s): Wenyan Mei, Comparative Biosciences)

**54. An Investigation of Morphological Diversity Among Neotropical Catfishes of the Superfamily Pimelodoidea**  
**Cameron Fisher**, Junior, Integrative Biology, LAS  
 (Research Mentor(s): Milton Tan, Illinois Natural History Survey)

**55. An Investigation of Northern Saw-whet Owl Roosting Behavior**  
**Erin Wunderlich**, Senior, Agricultural Leadership, Education, & Communications, ACES  
 (Research Mentor(s): Mike Ward, Natural Resources & Environmental Sciences)

**56. Assessing the Impact of State-Level Energy Policy on Solar Energy Employment**  
**Tyler Swanson**, Senior, Agricultural & Consumer Economics, ACES  
 (Research Mentor(s): Renata Endres, Agricultural & Consumer Economics)

**57. Centrifugation of Semen to Increase Motility, Concentration, and Lifespan of Sperm for Stallion Collection**  
**Gretel Wurdack**, Sophomore, Animal Sciences, ACES  
 (Research Mentor(s): Kevin Kline, Animal Sciences)

**58. Comparison of Waste Management Programs Across Big Ten Universities**  
**Jenna Schaefer**, Senior, Agricultural & Consumer Economics, ACES  
 (Research Mentor(s): Renata Endres, Agricultural & Consumer Economics)

**59. Designing a Renewable Energy Model**  
**Matthew Krauss**, Sophomore, Civil & Environmental Engineering, ENG  
 (Research Mentor(s): Roman Makhnenko, Civil & Environmental Engineering)

**60. Differences and Similarities in Nursing Behavior Between Tame and Aggressive Foxes**  
**Xiaotang Chen**, Senior, Animal Sciences, ACES  
 (Research Mentor(s): Anna Kukekova, Animal Sciences)

**61. Documenting Landcover Changes in the Grand River Grasslands via Mapping Software**  
**Jake Jagiello**, Junior, Natural Resources & Environmental Sciences, ACES  
 (Research Mentor(s): James Robert Miller, Natural Resources & Environmental Sciences & Dalton Renner, Natural Resources & Environmental Sciences)

**62. Effects of Genetics and Socialization on Fox Behavior**  
**Abby Smith**, Junior, Animal Sciences, ACES  
 (Research Mentor(s): Anna Kukekova, Animal Sciences)

**63. Effects of Saline Stress on Anti-Predator Behaviors in Poison Frog Tadpoles**  
**Halle-Mari Santiago**, Junior, Natural Resources & Environmental Sciences, ACES  
**Haru Hill**, Junior, Natural Resources & Environmental Sciences, ACES  
 (Research Mentor(s): Lisa Surber, Evolution, Ecology & Behavior & Eva Fischer, Evolution, Ecology & Behavior)

**64. Effects of Selection on Fox's Early Life Development and Social Behavior**  
**Nicole Bute**, Junior, Animal Sciences, ACES  
 (Research Mentor(s): Anna Kukekova, Animal Sciences)

**65. Evaluation of the Toxicity of Per- and Poly-fluoroalkyl Substances in Escherichia Coli MG1655 Strain Confined in a Hydrogel Biofilm-like Niche**  
**Khushali Vyas**, Sophomore, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Jeong Yoon, Bioengineering)

**66. Exploring Amaranth's Color Palette: Linking Phenotype, Plant Adaptation, and Human Health**  
**Sarah Kroncke**, Parkland College  
 (Research Mentor(s): Chance Riggins, Crop Sciences)

**67. Exploring Survivability and Egg-Laying Behavior of Isolated Queen Honey Bees**  
**Kyle Heimburger**, Senior, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Adam Hamilton, Carl R. Woese Institute of Genomic Biology & Gene Robinson, Carl R. Woese Institute of Genomic Biology)

**68. Mapping Soil Characteristics in the Prairie Restoration Experiments**  
**Chengxu Liu**, Senior, Natural Resources & Environmental Sciences, ACES  
 (Research Mentor(s): Anthony Yannarell, Natural Resources & Environmental Science)

**69. Fighting the Deadliest Insect in the World: A Comparative Study of Insecticide Resistance in Culex pipiens**  
**Serwa Adusei-Poku**, Sophomore, Biochemistry, LAS  
 (Research Mentor(s): Kylee Noel, Entomology)

**70. Paleo-perspectives on Sangamon River Variability Using Gastropod Stable Isotope Measurements**  
**Gillian Patterson**, Senior, Engineering Physics, ENG  
 (Research Mentor(s): Jessica Conroy, Geology)

**71. Prevalence of Vector Mosquito in Rain Barrels in Residential Central Illinois**  
**Maali Sanchez**, Junior, Integrative Biology, LAS  
 (Research Mentor(s): Becky Cloud, Program in Ecology, Evolution & Conservation Biology & Brian Allan, Entomology)

**72.** *Stomatal Movement Compensates for Reduced Density to Maintain Stomatal Conductance in Sugarcane Expressing an LRR Receptor Protein*

**Montana Hernandez**, Senior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor(s): Andrew Leakey, Plant Biology & Daniel Tejedal-Lunn, Plant Biology)

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**73.** *Survey of Phytoplasma-Host Interactions in Hemiptera: Taxonomic and Landscape-Based Analysis*

**Christine Fink**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Valeria Trivellone, Illinois Natural Resource Survey)

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**74.** *The Daily Activity of Mother Foxes*

**Elysia Goodson**, Junior, Animal Sciences, ACES  
(Research Mentor(s): Anna Kukekova, Animal Sciences)

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**75.** *The Impact of the Covid-19 Pandemic on Urban Populations of Coyotes, Red Foxes, and Gray Foxes across the Contiguous United States*

**Kayla Baskiewicz**, Senior, Animal Sciences, ACES  
(Research Mentor(s): Maximilian Allen, Natural Resources & Environmental Sciences)

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**76.** *Timecourse of Physiological and Behavioral Sex Change in Anemonefish*

**Gabriel Graham**, Sophomore, Psychology, LAS  
**Malaika Mathan**, Sophomore, Psychology, LAS  
(Research Mentor(s): Justin Rhodes, Psychology)

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**77.** *Two Years of Bird Collision Species Compositions on the UIUC Campus*

**Colin Dobson**, Senior, Natural Resources & Environmental Sciences, ACES  
(Research Mentor(s): Michael Ward, Natural Resources & Environment Sciences)

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**78.** *Uncovering the US Amphibian Pet Trade: Identifying Geographical Sources and Assessing Risks*

**Ellin Wang**, Sophomore, Integrative Biology, LAS  
(Research Mentor(s): Devin Edmonds, Natural Resources & Environmental Sciences)

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**79.** *Water Scarcity and the Future of Water Sustainability in Agriculture*

**Allison Altschuler**, Senior, Agricultural & Consumer Economics, ACES  
(Research Mentor(s): Renata Endres, Recreation, Sport & Tourism)

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## PK Session - Science & Technology

12:15 PM – 1:30 PM, South Lounge

**85.** *A Case for Service Layer Traffic Engineering*

**Aditya Prerepa**, Freshman, Computer Science & Philosophy, LAS  
(Research Mentor(s): Philip Brighten Godfrey, Computer Science)

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**86.** *A Case Study of an Anticyclonic Tornado during August 11th, 2021, in Wisconsin*

**Jessica Skocinski**, Senior, Atmospheric Sciences, LAS  
(Research Mentor(s): Jeff Frame, Atmospheric Sciences)

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**87.** *Agent-based Simulation Platform for Shared Mobility Services with Detour Restrictions*

**Yuhui Zhai**, Senior, Civil & Environmental Engineering, ENG  
(Research Mentor(s): Yanfeng Ouyang, Civil & Environmental Engineering & Yining Liu, Civil & Environmental Engineering)

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**88.** *An Analysis of Open-Ended Feedback on ClassTranscribe using Natural Language Processing*

**Meghana Gopannagari**, Freshman, Computer Science, ENG  
(Research Mentor(s): Hongye Liu, Computer Science & Lawrence Angrave, Computer Science)

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**89.** *Astrophysical Accretion Models of Low-Mass White Dwarf Companions*

**Rayna Spencer**, Senior, Astronomy, LAS  
(Research Mentor(s): Paul Ricker, Astronomy)

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**90.** *Creating Activity Trace Visualizations to Assist Peer Evaluation and Team Grading*

**Erin Kirsten**, Freshman, Computer Science & Math, LAS  
(Research Mentor(s): Brian Bailey, Computer Science)

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**91.** *Creating and Deploying a Scalable Platform to Publicly Showcase Professional Skills with MicroCredentials*

**Mia Paelmo**, Sophomore, Statistics, LAS  
**Dhiraj Kuttichirayil**, Sophomore, Statistics & Computer Science, LAS  
**Soph Beauban**, Freshman, Statistics, LAS  
**Emily Crawford**, Senior, Information Sciences, SIS  
(Research Mentor(s): Wade Fagen-Ulmschneider, Computer Science & Karle Flanagan, Statistics)

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**92.** *Designing a Machine Learning Architecture for Cancer Detection in Histological Images to Address Inter-Hospital Variation*

**Peter Hsu**, Freshman, Bioengineering, ENG  
(Research Mentor(s): Kianoush Falahkheirkhah, Chemical & Biomolecular Engineering & Rohit Bhargava, Bioengineering)

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**93.** *Developing a Force Controller for the 2FG7 OnRobot Gripper*

**Achintya Gahalaut**, Sophomore, Computer Engineering, ENG  
(Research Mentor(s): Holly Dinkel, Aerospace Engineering)

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**94.** *Development of a System to Monitor the Stability of the ZDC in a High Radiation Environment*

**Mandela Phillips**, Parkland College  
(Research Mentor(s): Riccardo Iongo, Physics & Matthias Grosse Perdekamp, Physics)

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**95.** *Manufacturing and Mechanical Testing of Semi-Crystalline Polymers*

**Yeonwook Park**, Junior, Mechanical Engineering, ENG  
(Research Mentor(s): Luis Rodriguez Koett, Materials Science & Engineering)

**96. Github University: A Language-Agnostic Automated Grading Solution**

**Jackson Kennel**, Junior, Computer Science & Linguistics, LAS  
**William Zheng**, Junior, Computer Science, ENG  
**Garrett Credi**, Junior, Mathematics, LAS  
 (Research Mentor(s): Wade Fagen-Ulmschneider, Computer Science & Daixuan Li, Computer Science)

**97. Graphene Manufacturing Within Microwave Atmospheric Plasma Reactors**

**Jacob Bruehl**, Parkland College  
 (Research Mentor(s): Daniel Jacobson, Nuclear, Plasma & Radiological Engineering & David Ruzic, Nuclear, Plasma & Radiological Engineering)

**98. Chemistry for Sustainability in Polymeric Materials**

**Benjamin Fliman**, Senior, Biochemistry, LAS  
 (Research Mentor(s): Jeffrey Moore, Chemistry & Julian Cooper, Chemistry)

**99. Illinois Astrophysical Dynamics Demonstrations (iADD)**

**Sean Lee**, Senior, Engineering Physics, ENG  
 (Research Mentor(s): Paul Ricker, Astronomy)

**100. Improving Robot-Aided Care of Individuals with Physical Impairments**

**Joanna Huang**, Junior, Computer Science, ENG  
 (Research Mentor(s): Lawrence Angrave, Computer Science & Samuel Olatunji, Human Factors & Aging Laboratory)

**101. Integration of Domain Constraints in Temporal Generation of Synthetic Patient Profiles**

**Shrusti Jain**, Junior, Computer Science & Math, LAS  
 (Research Mentor(s): Jimeng Sun, Computer Science)

**102. Investigate the Potential of Adding Non-recyclable Plastics into Asphalt Pavements**

**Jose Arellano**, Junior, History, LAS  
 (Research Mentor(s): Yusra Ibrahim Alhadidi, Civil & Environmental Engineering)

**103. Investigation of Tissue Extract Stability During Storage/Effect of Plasticware**

**George Espinoza**, Junior, Chemistry, LAS  
 (Research Mentor(s): Elena Romanova, Chemistry)

**104. Linking Deep-Ocean Iron-60 to Aluminum-26 Gamma-Ray Observations**

**Phil Coady**, Senior, Astronomy, LAS  
 (Research Mentor(s): Brian Fields, Astronomy)

**105. Maize Kernel Grafting: A Simplified Protocol**

**David Zimmerman**, Junior, Crop Sciences, ACES  
 (Research Mentor(s): Anthony Studer, Crop Sciences)

**106. Mesh Fixation: Toward the Design of Surgical Tacks for Pelvic Organ Prolapse**

**Hana Lee**, Sophomore, Mechanical Engineering, ENG  
 (Research Mentor(s): Amy Wagoner Johnson, Mechanical Science & Engineering & Shelby Hutchens, Mechanical Science & Engineering)

**107. Reimagining Sound in Immersive Environments**

**Ryan Gong**, Senior, Music, FAA  
 (Research Mentor(s): Raluca Ilie, Electrical & Computer Engineering)

**108. Simulation for Domino Tiling in Pinecone**

**Chen-Wei Chou**, Senior, Mathematics, LAS  
 (Research Mentor(s): Hieu Trung Pham Vu, Mathematics)

**109. Social and Ethical Information Sources of Student Stakeholders about Emerging Technologies in Agriculture**

**Fangyi Shou**, Junior, Communication, LAS  
 (Research Mentor(s): Cabral Bigman-Galimore, Communication & Sarah Benevento, Communication)

**110. The Development of R Based Code for the Analysis of Nanostring and Luminex Assays**

**Jared Buabeng**, Junior, Chemical Engineering, LAS  
 (Research Mentor(s): Aliko Kolliopoulos, Chemical & Bioengineering)

**111. Understanding the Role of NRT1.1 in Maize**

**Jenna Donovan**, Junior, Integrative Biology, LAS  
 (Research Mentor(s): Stephen Moose, Crop Sciences)

**112. URAP Project**

**Effie Gong**, Junior, Materials Science & Engineering, ENG  
**Emir Faisal**, Junior, Materials Science & Engineering, ENG  
 (Research Mentor(s): Javier Garcia Mainieri, Illinois Center for Transportation)

## PL Session - Food Systems

2:00 – 3:15 PM, Illini Room A

**1. A Win: Win - Alfalfa Cubes in Gestating Sows Diet Enhances Animal Welfare Outcomes while Alfalfa Production Sequesters Carbon, Decreases Soil Erosion, and Improves Soil Microbial Diversity**

**Benjamin Rogers**, Senior, Animal Sciences, ACES  
 (Research Mentor(s): Jason Emmert, Animal Sciences)

**2. Ancient vs. Commercial Tomatoes Under Abiotic and Biotic Stress**

**Lily Coy**, Freshman, Undeclared, DGS  
 (Research Mentor(s): Esther Ngumbi, Entomology)

**3. Automated Individual Identification of Cattle**

**Zoey Witruk**, Junior, Animal Sciences, ACES  
 (Research Mentor(s): Isabella Condotta, Animal Sciences & Luana Benicio, Animal Sciences)

**4. Bees and Nitrogen-Fixing Bacteria: Effects of Rhizobial Inoculation on Flower Selection and Attraction**

**Kelsey Koch**, Parkland College  
(Research Mentor(s): Annaliese Wargin, Entomology)

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**5. Deep-learning-based Model for Sow Posture Classification**

**Shifra Ferziger**, Senior, Animal Sciences, ACES  
(Research Mentor(s): Isabella Condotta, Animal Sciences)

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**6. Effects of Grazing Cover Crops on Soil Stability and Aggregation**

**Jessica Hendrickson**, Senior, Crop Sciences, ACES  
(Research Mentor(s): Andrew Margenot, Crop Sciences & Martin Bohn, Crop Sciences)

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**7. Evaluation of Different Cooling Methods to Inform Food Safety Protocol in Food Preparation Settings**

**Bridget Hagedorn**, Junior, Food Science & Human Nutrition, ACES  
(Research Mentor(s): Hannah Holscher, Food Science & Human Nutrition & Maggie Oleksiak, Nutrition & Human Microbiome Laboratory)

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**8. Evidence of Resistance to Pythium in Maize Inbred Lines**

**Harrison Hall**, Senior, Crop Sciences, ACES  
(Research Mentor(s): Santiago Mideros-Mora, Crop Sciences & Tiffany Jamann, Crop Sciences)

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**9. Extraction and Purification of Glycinin and  $\beta$ -conglycinin from Soybean Flour and Their Effects on Oxidized Low-Density Lipoproteins**

**Madeline Mertdogan**, Senior, Food Science & Human Nutrition, ACES  
(Research Mentor(s): Elvira de Mejia, Food Science & Human Nutrition)

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**10. Genetic Markers Associated with Leaf Angle and Tassel Branch Number in Maize**

**Mirai Inaoka**, Senior, Plant Biotechnology, ACES  
(Research Mentor(s): Alexander Lipka, Crop Sciences)

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**11. How Resilient Are Tomatoes Against Multiple Stressors?**

**Minxing Zhu**, Junior, Integrative Biology, LAS  
(Research Mentor(s): Esther Ngumbi, Entomology)

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**12. Investigation of SPX4 gene in Nutrient Uptake and Phosphorus Signaling in Corn**

**Lincoln Koehler**, Senior, Plant Biotechnology, ACES  
(Research Mentor(s): Stephen Moose, Crop Sciences)

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**13. Limiting Chronic Volume Overload for Patients on Hemodialysis Via Short-term, Home-Delivered Low Sodium Meals and Dietary Education**

**Meghan Gibbons**, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Kaitlyn Pawelczyk, Division of Nutritional Sciences & Kenneth Wilund, Kinesiology & Community Health)

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**14. The Effectiveness of a Negative DCAD Diet on Fresh Cows Through Urine pH Analyses**

**Emma Prybylski**, Junior, Animal Sciences, ACES  
(Research Mentor(s): Phil Cardoso, Animal Sciences & Emily O'Meara, Animal Sciences)

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**15. The Impact of Arbuscular Mycorrhizal Fungi Colonization on Tomato Plant Resistance to Flooding and Insect Herbivory**

**Rami Jameel**, Freshman, Philosophy, LAS  
(Research Mentor(s): Esther Ngumbi, Entomology)

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**16. Transient Expression of E-Cyclase to Characterize the Effects of the Carotenoid Lactucaxanthin on Photosynthesis in Nicotiana Benthamiana**

**Ella Meyering**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Atinder Singh, Agricultural & Biological Engineering & Laurie Leonelli, Agricultural & Biological Engineering)

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**17. Turning a Corn Plant Beet Red**

**Leah Erdmann**, Junior, Plant Biotechnology, ACES  
(Research Mentor(s): Stephen Moose, Crop Sciences)

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**18. Using a Machine Learning Method for High Throughput Leaf Pore Identification in C<sub>4</sub> grasses**

**Iksha Handa**, Senior, Bioengineering, ENG  
(Research Mentor(s): James Fischer, Plant Biology)

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**19. Weed Surveys of Lima Bean (*Phaseolus lunatus*) Fields in United States Production Systems**

**Yudai Takenaka**, Sophomore, Crop Sciences, ACES  
(Research Mentor(s): Martin Williams, Crop Sciences)

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**20. What are the Physiological Differences in Soybean Variations Under Free-air Carbon Dioxide Enrichment (FACE)?**

**Jayce Carlson**, Senior, Natural Resources & Environmental Sciences, ACES  
(Research Mentor(s): Lisa Ainsworth, Plant Biology & Christopher Montes, Plant Biology)



## PM Session - Health & Wellness

2:00 – 3:15 PM, Illini Room A

**25. A Scoping Review: Associations Between Mindful Eating, Body Image, and Disordered Eating Among Adolescents**

**Isabel Wojcik**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Jennifer Barton, Family Resiliency Center & Jacinda Dariotis, Human Development & Family Studies)

**26. Analyzing Older Adults' Interactions with Voice Assistants: Implications for Improving Adoption of Novel Technologies**

**Brandon Snipe**, Junior, Community Health, AHS  
**Otniel Fernandez**, Junior, Community Health, AHS  
(Research Mentor(s): Shannon Mejía, Kinesiology & Community Health & Wan Wen, Kinesiology & Community Health)

**27. Analyzing the Metabolic Effects of a Culturally Tailored Mediterranean Style Diet on Mexican Immigrants**

**Madeline Burke**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Margarita Teran-Garcia, Nutritional Sciences & Maribel Barragan, Nutritional Sciences)

**28. Anxiety and Depression Diagnoses and Symptoms Among Midwest Agricultural Producers**

**Grace Engelmann**, Junior, Human Development & Family Studies, ACES  
**Mary Chung**, Senior, Human Development & Family Studies, ACES  
(Research Mentor(s): Courtney Cuthbertson, Human Development & Family Studies)

**29. Biomarker Aggregation of CSF  $\beta$ -Amyloid, p-Tau, and Blood-Cortisol in Neurodegenerative Atrophy and Memory Decline**

**Zoe Tsokolas**, Senior, Psychology, LAS  
(Research Mentor(s): Wendy Heller, Psychology & Haley West, Psychology)

**30. Can 6-Weeks of Physical Activity Group Discussions Impact Cancer Survivors Step Counts?**

**Jessica Cox**, Senior, Speech & Hearing Science, AHS  
(Research Mentor(s): Veronica Garcia, Kinesiology & Community Health & Neha Gothe, Kinesiology & Community Health)

**31. Comparison of the Effects of Kinked and Planar Bile Acids on Host-Cell Metabolism**

**Ioanna Karras**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Rex Gaskins, Animal Sciences & Hanchu Dai, Nutritional Sciences)

**32. Daily Sound Level Exposure for Preterm Infants in the Neonatal Intensive Care Unit**

**Lauren Vicencio**, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Brian Monson, Speech & Hearing Science)

**33. Documenting the Development of mHealth Applications**

**Trishelle Manila**, Freshman, Kinesiology, AHS  
(Research Mentor(s): Renato Ferreira Leitao Azevedo, Kinesiology & Community Health & Wendy Rogers, Kinesiology & Community Health)

**34. Effect of a Physical Activity Intervention on Perceived Wellness for Patients Receiving Maintenance Hemodialysis**

**Kassidy Brady**, Junior, Chemistry, LAS  
(Research Mentor(s): Ken Wilund, Kinesiology & Community Health)

**35. Effect of a Physical Activity Intervention on Physical Function in Patients Receiving Maintenance Hemodialysis**

**Alex Millunchick**, Junior, Kinesiology, AHS  
(Research Mentor(s): Ken Wilund, Kinesiology & Community Health)

**36. Effects of Perinatal Exposure to a Mixture of Phthalates on the Volume of the Hippocampus in Adult Male and Female Rats**

**Ruibin Wang**, Senior, Psychology, LAS  
(Research Mentor(s): Elli Sellinger, Psychology & Janice Juraska, Psychology)

**37. Home Sweet Home? An Assessment of Sedentary Behavior and Physical Activity of Various Work Environments**

**Norberto Nieves**, Senior, Psychology, LAS  
(Research Mentor(s): Neha Gothe, Kinesiology & Community Health & Emily Erlenbach, Kinesiology & Community Health)

**38. Maternal Attachment and Depression Symptoms**

**Ivana Adedun**, Senior, Human Development & Family Studies, ACES  
(Research Mentor(s): Kelly Freeman Bost, Human Development & Family Studies)

**39. Microstructural Integrity in the Striatum is Related to Learning Abilities in Older Adults**

**Yutong Pan**, Junior, Psychology, LAS  
(Research Mentor(s): Hillary Schwarb, Psychology)

**40. Mindful Language in Guided Meditation**

**Anushree Tibrewal**, Sophomore, Computer Science, ENG  
**Eesha Barua**, Sophomore, Computer Science & Linguistics, LAS  
**Sana Madhavan**, Junior, Computer Science & Linguistics, LAS  
(Research Mentor(s): Roxana Girju, Linguistics)

**41. Tending to Our Roots to Increase Our Wellness (TRIOWell): A Community Gardening Intervention Proposal**

**Vanesu Jakachira**, Junior, Psychology, LAS  
(Research Mentor(s): Imani Canton, Kinesiology & Community Health)

**42. The Association Between Resistance Exercise Training and Generalized Anxiety Disorder among Young Adults: A Scoping Review**

**Ishaan Patel**, Junior, Biochemistry, LAS  
(Research Mentor(s): Neha Gothe, Kinesiology & Community Health & Emily Erlenbach, Kinesiology & Community Health)

**43. The Effects of a Remote Social Engagement Program in Caregivers of Persons with Dementia: A Case Study Approach**

**Evan Sebastian**, Freshman, Kinesiology, AHS  
**Nithya Anand**, Junior, Psychology, LAS  
**Melinda Jara**, Sophomore, Speech & Hearing Science, AHS  
(Research Mentor(s): Raksha Mudar, Speech & Hearing Science)

**44. *The Effects of Workplace Safety on Healthcare Workers' Mental Health***  
**Hahnbit Lee**, Sophomore, Kinesiology, AHS  
 (Research Mentor(s): Rachel Hoopsick, Kinesiology & Community Health)

**45. *The Mediating Effects of Meaning in Life on the Association Between Emotional Support and Stress***  
**Di Yao**, Junior, Psychology, LAS  
 (Research Mentor(s): Sarah Ward, Business Administration)

**46. *The Need for Diversity in Health Research: Recruiting and Increasing a Diverse Sample for the Blood Pressure Study***  
**Maliba Islam**, Senior, Interdisciplinary Health Sciences, AHS  
 (Research Mentor(s): Renato Ferreira Leitao Azevedo, Kinesiology & Community Health & Wendy Rogers, Kinesiology & Community Health)

**PN Session - Nature, Life & Environment**  
**2:00 – 3:15 PM, Illini Room C**

**50. *An Analysis of Stakeholder Perceptions Toward Solar Grazing***  
**Tyler Swanson**, Senior, Agricultural & Consumer Economics, ACES  
**Quin Karhoff**, Senior, Agricultural & Consumer Economics, ACES  
 (Research Mentor(s): A. Bryan Endres, Agricultural & Consumer Economics)

**51. *An Investigation of Amphibian Species Richness in Analamazaotra Forest Station***  
**Bora Taksir**, Senior, Integrative Biology, LAS  
 (Research Mentor(s): Devin Edmonds, Natural Resources & Environmental Sciences)

**52. *Brochosomes: Investigating and Characterizing Naturally Produced Nanoparticles***  
**Kyle Gray**, Senior, Chemical Engineering, LAS  
 (Research Mentor(s): Charles Schroeder, Chemical & Biomolecular Engineering & Gabriel Burks, Materials Science & Engineering)

**53. *Climate Change, Recreation, and America's Grasslands***  
**Evan Smith**, Junior, Philosophy, LAS  
 (Research Mentor(s): Kaylee Wells, Agricultural & Consumer Economics)

**54. *Comparative Analysis of S-metolachlor Metabolism among Palmer amaranth (*Amaranthus palmeri*) Populations from the U.S.***  
**Noeleen Brown**, Senior, Integrative Biology, LAS  
 (Research Mentor(s): Dean Riechers, Crop Sciences & Crystal Concepcion, Crop Sciences)

**55. *CreAlgae: The Future of Bioplastics through Algae Sourced from Local Waterways***  
**Sahir Hossainy**, Sophomore, Agricultural & Biological Engineering, ENG  
**Sahan Yalavarthi**, Freshman, Computer Science, ENG  
 (Research Mentor(s): Mark Smith, Finance)

**56. *Crimson and Clover: Methylobacterium and Clover Fitness***  
**Allison Higgins**, Junior, Plant Biotechnology, ACES  
 (Research Mentor(s): Katy Heath, Plant Biology & Sierra Bedwell, Microbiology)

**57. *Critical Developmental Windows for the Expression of Phenotypic Plasticity in Fin Coloration in Bluefin Killifish***  
**Jolene Blodgett**, Sophomore, Natural Resources & Environmental Sciences, ACES  
 (Research Mentor(s): Ratna Karatgi, Program in Ecology, Evolution & Conservation Biology)

**58. *Decreased Chemical Defenses in Stressed Heirloom Tomatoes***  
**Emma Cartelli**, Junior, Integrative Biology, LAS  
 (Research Mentor(s): Esther Ngumbi, Entomology)

**59. *Determining the Effects of Host Genetics on Gut Microbiome Composition in the Honey Bee***  
**Breven Stark**, Freshman, Animal Sciences, ACES  
 (Research Mentor(s): Cassondra Vernier, Carl R. Woese Institute for Genomic Biology & Gene Robinson, Carl R. Woese Institute of Genomic Biology)

**60. *DIP-Drought***  
**Ruozhen Yang**, Junior, Computer Science, ENG  
**Justin Xiao**, Senior, Information Sciences, SIS  
 (Research Mentor(s): Dong Wang, School of Information Sciences & Ximing Cai, Civil & Environmental Engineering)

**61. *Do High-Latitude Polar Fishes have Circadian Rhythm? - Evaluation of Circadian Gene Expression in an Antarctic Fish***  
**Delaney Blohm**, Sophomore, Integrative Biology, LAS  
 (Research Mentor(s): Lorelee Wilson, Evolution, Ecology & Behavior & Chi-Hing Cheng-De Vries, Evolution, Ecology & Behavior)

**62. *Exploring the Role of Resource Competition in Stabilizing Mutualism: A Model of Pea Plant and Rhizobia Coevolution***  
**Patrick Kozyra**, Senior, Integrative Biology, LAS  
 (Research Mentor(s): Abdel Halloway, Plant Biology & Katy Heath, Plant Biology)



**63. Factors Influencing Eastern Gray Squirrel (*Sciurus carolinensis*) and Fox Squirrel (*Sciurus niger*) Population Abundances in Champaign County**

**Amber Zilinger**, Senior, Animal Sciences, ACES  
(Research Mentor(s): Maximilian Allen, Natural Resources & Environmental Sciences)

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**64. Impact of Precipitation on Vector-Borne Disease in Colombia**

**Tasdiq Khan**, Sophomore, Community Health, AHS  
(Research Mentor(s): Alicia Kraay, Kinesiology & Community Health)

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**65. Intra- and Interspecific Variation in Tadpole Lateral Line Cells**

**Sarah Porth**, Parkland College  
(Research Mentor(s): Lisa Surber, Evolution, Ecology & Behavior & Eva Fischer, Evolution, Ecology & Behavior)

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**66. Machine Learning Applications to Paleoclimatology Studies**

**Kate O'Brien**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Jessica Conroy, Geology)

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**67. Patterns and Hormonal Mechanisms of Startle Response in Neotropical Tadpoles**

**Isabel Parrales**, Sophomore, Integrative Biology, LAS  
(Research Mentor(s): Lisa Surber, Evolution, Ecology & Behavior & Eva Fischer, Evolution, Ecology & Behavior)

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**68. Polymorphisms in the Shadow of the Prion Protein in Chronic Wasting Disease Wild White-tailed Deer (*Odocoileus virginianus*)**

**Nora Ryan**, Senior, Animal Sciences, ACES  
(Research Mentor(s): Nohra Mateus-Pinilla, Illinois Natural History Survey & Jan Novakofski, Animal Sciences)

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**69. Predictability of Derechos between 2015 and 2022**

**Claudia Workman**, Senior, Atmospheric Sciences, LAS  
(Research Mentor(s): Jeffrey Frame, Atmospheric Sciences)

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**70. Statistical Runout Modeling of Avalanche Risk Using GIS in Patagonia, Chile**

**Sydney Carste**, Senior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor(s): Jonathan Tomkin, Geology & Francisco Javier Aguirre, School for the Field Studies)

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**71. The Adaptive Specialization Hypothesis for Sex Differences in Wayfinding Remains Unsupported by Comparative Data**

**Connor Hults**, Senior, Psychology, LAS  
(Research Mentor(s): Justin Rhodes, Psychology)

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**72. The Comparison of Heat Index to Soil Moisture**

**Janae Sparks**, Parkland College  
(Research Mentor(s): Deanna Hence, Atmospheric Sciences & Cristian Proistosescu, Atmospheric Sciences)

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**73. The Impacts of the Neonicotinoid Imidacloprid on Predator-Prey Interactions in a Freshwater System**

**Greta Keilman**, Junior, Integrative Biology, LAS  
(Research Mentor(s): Carla Cáceres, Evolution, Ecology & Behavior)

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**74. To Eat or Not to Eat? Is Boldness a Repeatable Trait That Correlates with Giving Care Versus Cannibalizing Young in the Common Coqui**

**Savannah Shelton**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Faith Hardin, Evolution, Ecology & Behavior & Eva Fischer, Evolution, Ecology & Behavior)

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**75. Risk Assessment of Phytoplasma Emerging Diseases: Phylogenetic and Environmental Diversity on Potential of Phytoplasma Outbreak**

**Lisa Kwan**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Valeria Trivellone, Prairie Research Institute)

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**76. Vector Autofluorescence: A "Glow Up" for Tick Identification Tools**

**Carly Kallembach**, Graduated December 2022, Integrative Biology, LAS  
(Research Mentor(s): Holly Tuten, Illinois Natural History Survey)

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## PO Session - Cells & Molecules

2:00 – 3:15 PM, South Lounge

**85. A Step Towards Automated Bioreactor Cell Viability Microscopy**

**Sharon Ignatius Newton**, Freshman, Bioengineering, ENG  
(Research Mentor(s): Catherine Best-Popescu, Bioengineering & Jorge Alexis Maldonado DeJesus, Bioengineering)

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**86. Acquisition of TDP-43 by Mouse Sperm During Epididymal Transit**

**Ann Steephen**, Senior, Biochemistry, LAS  
(Research Mentor(s): Prabhakara Reddi, Comparative Biosciences)

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**87. Brownian Diffusion of Charged Species in Relation to Protein Crowding Effects**

**Andrew Lutsky**, Senior, Biochemistry, LAS  
(Research Mentor(s): Emad Tajkhorshid, Biochemistry)

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**88. Characterization of Somatostatin Neurons in the Mouse Inferior Colliculus**

**William Dai**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Dan Llano, Molecular & Integrative Physiology)

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**89. Characterizing Diurnal Changes in Connexin43 Expression in the Rodent Hippocampus**

**Lydia Ng**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Martha Gillette, Cell & Developmental Biology & Taylor Jorgensen, Neuroscience)

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**90. Regulation of Aquaporin-4 and its Modulation by Arginine Vasopressin within the Glymphatic System**

**Hanifa Mohammed**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Martha Gillette, Cell & Developmental Biology & Jennifer Mitchell, Cell & Developmental Biology)

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**91. Cytotoxic Effects of the Histone Deacetylases and Bromodomains Inhibition in Canine Mammary Carcinoma**

**Beatriz Gomes**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Pedro Luiz Porfirio Xavier, University of São Paulo)

**92. Defining the Role of Efflux Pumps in the Regulation of the Bacterial Cell Cycle**

**Katarina Vrtikapa**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Paola Mera, Microbiology & Leslie Delgado-Martinez, Microbiology)

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**93. Effects of Phosphate Pentose Pathway Overexpression on Insulin Precursor Yield in *P. Pastoris***

**Vishnu Kompella**, Sophomore, Engineering Physics, ENG  
(Research Mentor(s): Christopher Rao, Chemical & Biomolecular Engineering & Ebin Joseph, Chemical & Biomolecular Engineering)

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**94. Elucidating the Mechanisms of Cyclopamine Binding to Smoothed Protein Using Molecular Dynamics and Machine Learning**

**Max Kim**, Junior, Chemical Engineering, LAS  
(Research Mentor(s): Diwakar Shula, Chemical & Biomolecular Engineering)

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**95. Endurance-Trained Extracellular Vesicles (ExerVs) to Improve Muscle Recovery Following Disuse Atrophy**

**Madeleine Meehan**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Marni Boppart, Kinesiology & Community Health & Alex Fliflet, Kinesiology & Community Health)

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**96. Environment-mediated Tumor Progression in a Bioengineered Model of Glioblastoma**

**Joseph Mueller**, Sophomore, Chemical Engineering, LAS  
**Achal Anand**, Sophomore, Chemical Engineering, LAS  
(Research Mentor(s): Sara Pedron Haba, Chemical & Biomolecular Engineering)

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**97. Exercise-sensitive Microbial-derived Aromatic Amino Acid Metabolites Alter Monocyte Function**

**Casey Lim**, Senior, Kinesiology, AHS  
(Research Mentor(s): Jacob Allen, Kinesiology & Community Health)

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**98. Farnesoid X Receptor Regulates MicroRNA-155-5p in Macrophages**

**Tiffany Nguyen**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Erik Nelson, Molecular & Integrative Physiology & Hashni Epa Vidana Gamage, Molecular & Integrative Physiology)

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**99. Identifying Neuropeptides in the Pain Perception Pathway Using Tandem-Mass Spectrometry and Bioinformatics**

**Aniket Joglekar**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Elena Romanova, Chemistry & Jonathan Sweedler, Chemistry)

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**100. Investigating and Improving PE Gene Editing in Mammalian Cells**

**Andrew Zhang**, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Huimin Zhao, Chemical & Biomolecular Engineering & Che Yang, Biochemistry)

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**101. Investigating the Effect of Vanillin on a Multi-Drug Resistant Strain in *Caulobacter crescentus***

**Tammy Guo**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Paola Mera, Microbiology & Leslie Martinez, Microbiology)

**102. Lipid Droplet Accumulation in Sugarcane Guard Cells Limits Stomatal Conductance by Impairing Stomatal Movement**

**Nathan Carmichael**, Senior, Biochemistry, LAS  
(Research Mentor(s): Daniel Tejeda Lunn, Plant Biology & Andrew Leakey, Plant Biology)

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**103. Macrophage Polarization in Response to 11-oxy-androgens Generated by the Urinary Tract Bacterium *Propionimicrobium lymphophilum***

**Elizabeth Tang**, Senior, Engineering Physics, ENG  
(Research Mentor(s): Rex Gaskins, Animal Sciences & Jason Ridlon, Animal Sciences)

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**104. MecVax and CFA-toxoid Fusion, Enterotoxigenic *E. coli* Vaccines Confer Protection in Rabbits**

**Yiyang Shen**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Weiping Zhang, Pathobiology & Md Shafiullah Parvej, Pathobiology)

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**105. Mediation of Rat Social Dominance by Medial Prefrontal Cortex**

**Benedict Yeoh**, Senior, Psychology, LAS  
(Research Mentor(s): James Hinman, Psychology)

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**106. MINFLUX Nanoscopy Reveals an Ultra-fine Two-layer Structure of Axial Elements in Synaptonemal Complex**

**Sasha Kakkassery**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Huanyu Qiao, Comparative Biosciences & Reza Rajabi, Comparative Biosciences)

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**107. Murine Influenza A Virus Disrupts Immune Profiles at the Maternal-fetal Interface in a Dose-dependent Manner During Acute Infection**

**Moira Roddy**, Senior, Animal Sciences, ACES  
(Research Mentor(s): Adrienne Antonson, Animal Sciences & Ashley Otero, Neuroscience Program)

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**108. Neuron Structure of *Mononchus pulcher* and *Mononchus aquaticus* Nematodes**

**Alyson Ficca**, Sophomore, Integrative Biology, LAS  
**Jonathan Boudreaux**, Senior, Music Composition, FAA  
(Research Mentor(s): Nate Schroeder, Crop Sciences)

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**109. Quantifying Biophysical Changes in the White Matter of Multiple Sclerosis Mouse Models Using Spatial Light Imaging Microscopy**

**Yasmine Khan**, Sophomore, Bioengineering, ENG  
**Ziyin Wang**, Sophomore, Bioengineering, ENG  
**Jessica Lozano Guajardo**, Freshman, Psychology, LAS  
(Research Mentor(s): Jorge Alexis Maldonado DeJesus, Neuroscience Program)

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**110. Quantitative Label-free Cell Cycle Microscopy**

**Sanjana Satish**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Catherine Best-Popescu, Bioengineering)

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**111. Stereoelectronic Effects of Pyridinophane Ligands on the Stabilization of Low Valent Nickel Complexes**

**Ian Garvey**, Senior, Chemistry, LAS  
(Research Mentor(s): Liviu Mirica, Chemistry & Bailey Bouley, Chemistry)

**112. Structural Characterization of the Heterocyclic Peptide Enterolysin S Derived from *Enterococcus caccae***  
**Varshal Patel**, Sophomore, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Chengyou Shi, Chemical & Biomolecular Engineering)

**113. Systematic Review on the Affects of Anabolic Steroids on Epigenetics and Reproduction**  
**Ilya Ahmad**, Senior, Kinesiology, AHS  
 (Research Mentor(s): Diego Hernandez Saavedra, Kinesiology & Community Health)

**114. The Effects of Histamine Receptor 2 Modulation on Breast Cancer Dormancy**  
**Michael McHenry**, Senior, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Erik Nelson, Molecular & Integrative Physiology & Claire Schane, Molecular & Integrative Physiology)

**115. The Loss of TDP-43 in Male Germ Cells Leads to Testicular Pathology in Prepubescent Mice**  
**Natalie Bizon**, Senior, Biochemistry, LAS  
 (Research Mentor(s): Prabhakara Reddi, Comparative Biosciences)

**116. URAP Project**  
**Anushka Saha**, Sophomore, Biochemistry, LAS  
 (Research Mentor(s): Urbi Saha, Neuroscience)

## PP Session - Language, Culture & Society

3:45 – 5:00 PM, Illini Room A

**1. Purpose vs. Rationale: A Syntactic Analysis of Infinitival Adjunct Clauses in English and Spanish**  
**Lilyanna Williams**, Sophomore, Linguistics, LAS  
 (Research Mentor(s): Katie VanDyne, Spanish & Portuguese)

**2. A WASH Assessment: Jordanian Refugee Camps**  
**Maya Moucharrafi**, Senior, Global Studies, LAS  
 (Research Mentor(s): Timothy Wedig, Center for Global Studies)

**3. An Analysis of the Relationship Between Perfectionism, Eating Disorder Symptomatology, and Instructional Experiences among Dancers**  
**Lukas Jacyniuk Moskalis**, Senior, Dance, FAA  
 (Research Mentor(s): C. Kemal Nance, Dance)

**4. An Investigation into the Complexities of Race in Dating with a Focus on Racial Preferences**  
**Shyann Mack**, Senior, Anthropology, LAS  
 (Research Mentor(s): Jessica Greenberg, Anthropology)

**5. An Investigation of the Factors that Limit Access of Latino Families to Necessary Services for Students with Disabilities**  
**Yoselyn Velazquez**, Freshman, Learning & Behavior Specialist I, EDU  
 (Research Mentor(s): Meghan Burke, Special Education)

**6. Analyzing Accuracy of Word Error Rates (WER) of Artificial Intelligence (AI) Generated Captions Compared to Professional Human Generated Captions in Engineering Lecture Videos**  
**Jessica Singh**, Sophomore, Computer Science, ENG  
**Shlok Mehrotra**, Sophomore, Computer Science & Math, LAS  
 (Research Mentor(s): Lawrence Angrave, Computer Science & David Dalpiaz, Statistics)

**7. Assessing the Establishment of Safety Between Attorney and Client in Intimate Partner Violence Cases**  
**Logan Meneses**, Senior, Human Development & Family Studies, ACES  
 (Research Mentor(s): Christopher Maniotes, Human Development & Family Studies)

**8. Attachment Styles of International, Transracial Adoptees**  
**Mackenzie Meyer**, Junior, Advertising, COM  
 (Research Mentor(s): Patrick Vargas, Advertising)

**9. Black Femicide vs. Dating Culture**  
**Andrianna Thomas**, Junior, Human Development & Family Studies, ACES  
 (Research Mentor(s): Anthony Sullers Jr., African American Studies)

**10. Conflict and Dance: The Impact of World War II on Dance in the United States**  
**Anne Morgan**, Senior, Dance, FAA  
 (Research Mentor(s): Kemal Nance, Dance)

**11. Developing a Quality Evaluation Protocol for Racial Equity Park and Recreation Plans**  
**Genna Peters**, Sophomore, Recreation, Sport & Tourism, AHS  
**Vanessa Ramos**, Sophomore, Recreation, Sport & Tourism, AHS  
 (Research Mentor(s): Mariela Frenandez, Recreation, Sport & Tourism & Wonjin Jeong, Recreation, Sport & Tourism)

**12. Digital Tokens for Research Transparency and Participant Engagement: A Mixed Methods Study**  
**Anjali Yedavalli**, Sophomore, Integrative Biology, LAS  
 (Research Mentor(s): Marielle Gross, Johns Hopkins Berman Institute of Bioethics & Amelia Hood, Johns Hopkins Berman Institute of Bioethics)

**13. Exploring Conflict Engagement: The Impact of Age on the Conflict Engagement of Government Leaders**  
**Anna Blair**, Senior, Political Science, LAS  
 (Research Mentor(s): Alyssa Prorok, Political Science)

**14. Exploring the Relation between Job Satisfaction and Personality: The Mediating Role of Work Stress**  
**Rishitaa Dutta**, Junior, Psychology, LAS  
 (Research Mentor(s): D. A. Briley, Psychology)

**15. Gun Violence**  
**Guillermo Beltran**, Graduated December 2022, Community Health, AHS  
 (Research Mentor(s): Anthony Sullers Jr., African American Studies)



**23. Mental Health in African American Youth**  
**Trinity Smith**, Senior, Psychology, LAS  
 (Research Mentor(s): Anthony B. Sullers Jr., African American Studies)

**24. Opportunities and Barriers to UDL-based Course Designs for Inclusive Learning in Undergraduate Engineering and other STEM courses**  
**Delu Zhao**, Sophomore, Computer Science & Economics, LAS  
**Ananya Agarwal**, Junior, Computer Science, ENG  
 (Research Mentor(s): Hongye Liu, Computer Science & Lawrence Angrave, Computer Science)

**25. Cops, Courts, and Confidence: How Police Interactions Affect Public Trust in the Judiciary**  
**Emma Henderson**, Senior, Political Science, LAS  
 (Research Mentor(s): Jeffery Mondak, Political Science)

**26. Positive Relationships with Parents or Other Adults: A Protective Factor Against the Transmission of Intergenerational Trauma**  
**Alina Loewenstein**, Sophomore, Psychology, LAS  
 (Research Mentor(s): Rachel Garthe, School of Social Work & Qihao Zhan, School of Social Work)

**27. Queer Defined: Analyzing Queer Spaces on Higher Educational Campuses**  
**Matthew Jenkins**, Junior, Landscape Architecture, FAA  
 (Research Mentor(s): Kelley Lemon, Landscape Architecture)

**28. Resilience in the Case of Individuals with Long-COVID**  
**Annalisa Ranallo**, Freshman, Interdisciplinary Health Sciences, AHS  
**Isabella Robieson**, Freshman, Interdisciplinary Health Sciences, AHS  
 (Research Mentor(s): Charee Thompson, Communication & Sara Babu, Communication)

**29. "Experiências Sobrenaturais": The Messiness of Queer Pentecostalism in Brazil**  
**Serena Jobi**, Sophomore, Mathematics, LAS  
 (Research Mentor(s): Joseph Coyle, Anthropology)

**30. Right-wing Movements, Islamist States, and the Islamic Hijab**  
**Maya Mert**, Freshman, Industrial Design, FAA  
 (Research Mentor(s): Amirhossein Teimouri, Sociology)

**31. Studying Diversity and Inclusion and Minority/Majority Dynamics Through Cyberball Studies**  
**Ava Marginean**, Freshman, Political Science, LAS  
 (Research Mentor(s): David Reinhard, Business Administration)

**32. Supreme Court Legitimacy and the Impacts of a Politicized Court**  
**Nicole Arnold**, Senior, Political Science, LAS  
 (Research Mentor(s): Alicia Uribe-McGuire, Political Science)

**33. The Application of Social Justice Theory to Social Work Education in its Relation to the Eradication of Systemic/Structural Racism**  
**Cache Merriweather**, Sophomore, Psychology, LAS  
 (Research Mentor(s): Allison Carrington, School of Social Work)

**16. Historically Contextualizing Illinois Black Farming Family Issues**  
**Chloe Graham**, Senior, Human Development & Family Studies, ACES  
 (Research Mentor(s): Anisa Codamon, Human Development & Family Studies & Shardé Smith, Human Development & Family Studies)

**17. How do Protection Orders Relate to Post-Separation Parenting Arrangements in Divorce?**  
**Julianne Enas**, Sophomore, Human Development & Family Studies, ACES  
 (Research Mentor(s): So Young Park, Human Development & Family Studies)

**18. International Expansion of Netflix: The Case for South Korea**  
**Yun Hyuk Choi**, Senior, Media & Cinema Studies, COM  
 (Research Mentor(s): Rachel Kuo, Media & Cinema Studies)

**19. Interpretations of Social Justice Theory and their Impacts on the Criminal Justice System**  
**Ella Corriere**, Freshman, Psychology, LAS  
**Julia Kreczko**, Sophomore, Psychology, LAS  
 (Research Mentor(s): Allison Carrington, School of Social Work)

**20. Investigating the Parallel Universes of Personality and SEB Skills Through a Gendered Lens**  
**Natalia Palafox Burbano**, Senior, Psychology, LAS  
 (Research Mentor(s): Madison Sewell, Educational Psychology & Chris Napolitano, Educational Psychology)

**21. Latinx Mothers' Testimonies: Embodying Bridges for Bilingual Futures**  
**Lesli Vargas**, Sophomore, Elementary Education, EDU  
 (Research Mentor(s): Idalia Nuñez Cortez, Curriculum & Instruction)

**22. Media Takeover and Coup Success**  
**Chenyu Jiang**, Junior, Political Science, LAS  
 (Research Mentor(s): Shuyuan Shen, Political Science)

**34. The College Athlete Experience and it's Academic Influences**

**Kayla Ratsamy**, Freshman, Early Childhood Education, EDU  
(Research Mentor(s): Wenhao David Huang, Education Policy, Organization & Leadership)

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**35. URAP Project**

**Shiuli Rai**, Junior, Psychology, LAS  
(Research Mentor(s): Shiyu Sun, Educational Psychology)

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**36. The Great Depression and The New Deal: A Newsletter from a Camp of Homeless Men**

**Summer Matthes**, Junior, History, LAS  
**Jordan Wilkerson**, Freshman, History, LAS  
**Rachel Mulick**, Freshman, History, LAS  
(Research Mentor(s): John Randolph, History)

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**37. The Impact of the Black Church on African American Queer Gen-Zers**

**Alison Green**, Senior, Political Science, LAS  
(Research Mentor(s): Anthony Sullers Jr., African American Studies)

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**38. An Analysis of Interest Groups and their Effects on the Passing of Ballot Measures**

**Aparna Lakkaraju**, Sophomore, Chemistry, LAS  
(Research Mentor(s): Søren Warland, Political Science)

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**39. The Influence of Name Agreement on Adjective Use in Sentence Production**

**Zhixin Yao**, Senior, Psychology, LAS  
(Research Mentor(s): Jessica Montag, Psychology)

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**40. The Relationship Between Levels of Communication and Features of Autism in Children with Down Syndrome**

**Sarah Pechtl**, Senior, Speech & Hearing Science, AHS  
**Emma Mueller**, Junior, Speech & Hearing Science, AHS  
**Ashley Yun**, Senior, Community Health, AHS  
(Research Mentor(s): Marie Channell, Speech & Hearing Science & Beka Bosley, Speech & Hearing Science)

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**41. The Social Impacts of College Sporting Events on Residents Living Around University of Illinois at Urbana-Champaign**

**Kei Yamato**, Sophomore, Geography & Geographic Information Science, LAS  
(Research Mentor(s): Jonathan Rocha De Oliveira, Recreation, Sport & Tourism)

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**42. The Transition of Native Music from Acts of Tradition to a Form of Resistance**

**Aidan McMahon**, Junior, History, LAS  
(Research Mentor(s): David Beck, History)

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**43. The Work Towards Equity of Principals of Color**

**Christopher Trujillo**, Senior, Political Science, LAS  
(Research Mentor(s): Osly Flores, Education Policy, Organization & Leadership & Nick Bonanno, Illinois Leadership Center)

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**44. Measuring and Understanding Sadness/Stress Elicited from Politics**

**Alice Li**, Freshman, Computer Science, ENG  
**Shivam Srivastava**, Freshman, Economics, LAS  
(Research Mentor(s): James Steur, Political Science)

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**PQ Session - Data, Information & Machine Learning**

**3:45 – 5:00 PM, Illini Room C**

**50. Inter and Intra Reviewer Reliability amongst Neurosurgeons Assessing Sagittal Cervical X-rays and the Impacts on Prognostics and Diagnostic**

**Katherine Bieber**, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Jonah Moss, Rush University Medical Center)

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**51. An Investigation Keyword Extraction Algorithms to Segment Videos and Summarize Content in Online Lectures**

**Nikhil Khandekar**, Senior, Statistics & Computer Science, LAS  
(Research Mentor(s): Lawrence Angrave, Computer Science)

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**52. An Investigation of Substance Abuse Treatment Discharge Status Using Machine Learning**

**Junjie Gao**, Junior, Computer Engineering, ENG  
**Patrick Xu**, Junior, Computer Science, ENG  
(Research Mentor(s): Hongye Liu, Computer Science)

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**53. An Investigation of the Current Teacher Shortage in Illinois School Districts**

**Kate Kuehl**, Sophomore, Elementary Education, EDU  
(Research Mentor(s): Nancy Latham, Curriculum & Instruction)

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**54. Collaborative Construction and Communication in Minecraft**

**Vasudha Das**, Freshman, Computer Science & Linguistics, LAS  
(Research Mentor(s): Julia Hockenmaier, Computer Science & Prashant Jayannavar, Computer Science)

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**55. Computable Bibliography: Using Data Analysis and Data Visualization to Characterize a Bibliography**

**Zhiheng Ye**, Junior, Statistics, LAS  
(Research Mentor(s): Jodi Schneider, School of Information Sciences)

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**56. Disentangling the Data: How Does Elevation and Density Effect *E. coqui* Behavior?**

**Destini Coleman**, Senior, Integrative Biology, LAS  
(Research Mentor(s): Katharina Soto, Program in Ecology, Evolution & Conservation Biology & Eva Fischer, Evolution, Ecology & Behavior)

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**57. Evaluating the Performance of Neighborhood Finders in Motion Planning**

**Shreya Vinjamuri**, Sophomore, Computer Science, ENG  
**Nikhila Puppala**, Sophomore, Computer Science, ENG  
(Research Mentor(s): Nancy Amato, Computer Science)

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**58. Fairness in Graph Neural Networks**

**Anjali Kumar**, Junior, Computer Science, ENG  
(Research Mentor(s): Hanghang Tong, Computer Science)

**59. Interconnect Routing Through Priority-Based Search Algorithm**

**Melissa Aninagyei-Bonsu**, Freshman, Computer Science, ENG  
**Mia Erdenebileg**, Junior, Computer Science, ENG  
 (Research Mentor(s): Nancy Amato, Computer Science)

**60. Investigating Crossref as a Tool to Retrieve Funding Information for Research Works**

**Shashank Kambhatla**, Senior, Information Sciences, SIS  
 (Research Mentor(s): Jodi Schneider, School of Information Sciences & Yuanxi Fu, School of Information Sciences)

**61. Investigating Sample Bias Towards Languages in Audio Super-resolution**

**Austin Lu**, Senior, Systems Engineering & Design, ENG  
**Arya Nallanthighall**, Senior, Computer Engineering, ENG  
 (Research Mentor(s): Kanad Sarkar, Electrical and Computer Engineering & Manan Mittal, Electrical and Computer Engineering)

**62. Nowcasting Lightning Strikes Through Convolutional Neural Networks**

**Austin Shwatal**, Junior, Statistics, LAS  
**Georges Durand**, Junior, Computer Science & Statistics, LAS  
**Sarah Yang**, Senior, Statistics, LAS  
**Spencer Bauer**, Junior, Statistics, LAS  
**Mallory Klostermann**, Senior, Statistics, LAS  
 (Research Mentor(s): Daniel Ries, Sandia National Laboratories)

**63. Nowcasting Lightning Strikes Through Generalized Linear Mixed Model and Binary Hurdle Model**

**Sarah Yang**, Senior, Statistics, LAS  
**Mallory Klostermann**, Senior, Statistics, LAS  
**Spencer Bauer**, Junior, Statistics, LAS  
**Georges Durand**, Junior, Computer Science & Statistics, LAS  
**Austin Shwatal**, Junior, Statistics, LAS  
 (Research Mentor(s): Daniel Ries, Sandia National Laboratories)

**64. Numerical Simulation of the Equipartition of Energy in a Helical Wave**

**Jordan Westphal**, Freshman, Mechanical Engineering, ENG  
 (Research Mentor(s): Yaswanth Sai Jetti, Mechanical Science & Engineering)

**65. On Device Interaction Mining**

**Ethar Hussein**, Junior, Computer Science, ENG  
 (Research Mentor(s): Ranjitha Kumar, Computer Science & Deniz Arsan, Computer Science)

**66. On-Device Interaction Mining (ODIM)**

**Zora Zhang**, Sophomore, Computer Science, ENG  
 (Research Mentor(s): Ranjitha Kumar, Computer Science & Carl Guo, Computer Science)

**67. Privacy Concerns Among University Students Towards Learning Management System Data Collection**

**Donlapun Wongkarnta**, Junior, Information Sciences, SIS  
 (Research Mentor(s): Madelyn Rose Sanfilippo, School of Information Sciences)

**68. Qualitative Coding: Assessment and Implementation for Contextual Technical Decision Making**

**Cathy Li**, Senior, Chemical Engineering, LAS  
**Annabelle Epplin**, Senior, Electrical Engineering, ENG  
**Samuel Gerstein**, Freshman, Computer Science, ENG  
 (Research Mentor(s): Emily Lawson-Bulten, Agricultural & Biological Engineering & Abhiroop Chattopadhyay, Electrical & Computer Engineering)

**69. Reservoir Computing in the Mind in Vitro Project**

**Shalini Yagnik**, Junior, Computer Science, ENG  
 (Research Mentor(s): Nancy Amato, Computer Science & Ananya Yammanuru, Computer Science)

**70. Smart-Home Environment for Detecting Life Using Signal Processing**

**Arshiya Gupta**, Freshman, Computer Science, ENG  
 (Research Mentor(s): Elahe Soltanaghahi, Computer Science)

**71. Social Media Sentiment on Esports Performance**

**Ethan Jude Miranda**, Senior, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Madelyn Sanfilippo, School of Information Sciences)

**72. Surveying the Genetic Diversity of Nitrogen-responsive Genes in Maize**

**Grace Nystrom**, Senior, Crop Sciences, ACES  
 (Research Mentor(s): Stephen Moose, Crop Sciences)

**73. Using Deep Learning to Predict Input Parameters for ReaxFF Interatomic Potential**

**Shengan Wu**, Senior, Computer Science & Statistics, LAS  
 (Research Mentor(s): Benjamin Jaspersen, Mechanical Science & Engineering)

**74. Using Machine Learning to Analyze the Influence of Combinatorial Stressors on Soil and Plant Properties**

**Anagha Tiwari**, Freshman, Statistics & Computer Science, LAS  
 (Research Mentor(s): Esther Ngumbi, Entomology)

**75. Verifying Scientific Integrity and Transparency: Using Machine Learning to Detect Inconsistencies in Scientific Data**

**Akshata Tiwari**, Freshman, Computer Science & Economics, LAS  
 (Research Mentor(s): Esther Ngumbi, Entomology)

**76. Visualizations and Machine Learning Models for Emotion Recognition**

**Jinghan Zeng**, Freshman, Computer Science, ENG  
 (Research Mentor(s): Karrie Karahalios, Computer Science & Sayantani Basu, Computer Science)

**77. Win/loss Sequences in Sports: Quantifying Streakiness, Momentum, and Exceptional Performances of MLB, NBA, and NHL Teams**

**Mohit Singh**, Freshman, Statistics & Computer Science, LAS  
**Alex Stratton**, Senior, Economics, LAS  
**Anh Phung**, Sophomore, Statistics & Computer Science, LAS  
**Charles Martell**, Senior, Economics, LAS  
 (Research Mentor(s): AJ Hildebrand, Mathematics & Manisha Garg, Mathematics)

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## PR Session - Science & Technology

3:45 – 5:00 PM, South Lounge

**85. A Design of Hydrolysis Ester-based Linkers for Development of Activity-based NIR Bioluminescence Probes**

**Yourong Weng**, Junior, Chemical Engineering, LAS  
 (Research Mentor(s): Jefferson Chan, Chemistry)

**86. An Investigation of Antennas that can Intercept Weather Satellite Signals**

**Jonathan Hu**, Freshman, Electrical Engineering, ENG  
 (Research Mentor(s): David Mitchell, Electrical & Computer Engineering)

**87. An Investigation on CUDA Kernel Tuning for Accelerating Training RGNNs**

**Zexuan Yan**, Freshman, Computer Engineering, ENG  
 (Research Mentor(s): Kun Wu, Electrical & Computer Engineering)

**88. Analysis of Embodiment with Survey Measures in South Asian Immigrants to the USA**

**Hannah Kapur**, Freshman, Bioengineering, ENG  
 (Research Mentor(s): Sana Saboowala, Program for Ecology, Evolution & Conservation Biology)

**89. Analyzing Auditory Circuit and Perceptual Disruptions in Genetically-Distinct Rat Models of Autism**

**Haichao Wang**, Senior, Biochemistry, LAS  
 (Research Mentor(s): Benjamin Auerbach, Molecular & Integrative Physiology)

**90. Building the Blocks of Virtual Reality Learning**

**Nan Kang**, Junior, Computer Engineering, ENG  
 (Research Mentor(s): Raluca Ilie, Electrical & Computer Engineering)

**91. Constructing a Template Baryonic Tully-Fisher Relation Using Type 1a Supernovae as Distance Measures**

**Arya Desai**, Junior, Astronomy, LAS  
 (Research Mentor(s): Joseph Ribaldo, Providence College & Luke Leisman, Mathematics)

**92. Constructing and Designing Carbon Fiber Trusses for S.P.I.D.E.R and T.I.M**

**Marshall Horton**, Parkland College  
 (Research Mentor(s): Jeff Filippini, Physics)

**93. Crazyflie Quadrotter Investigation**

**Eisha Peyyeti**, Sophomore, Computer Science, ENG  
 (Research Mentor(s): Elahé Soltanaghai, Computer Science)

**94. Developing an Accessible Soft Robotic Prosthetic Hand Toolkit for Emerging Engineers**

**Arshveer Sachdeva**, Sophomore, Bioengineering, ENG  
**Jorge Jimenez**, Junior, Mechanical Engineering, ENG  
**Tyler Smart**, Junior, Electrical Engineering, ENG  
**Jackie Arroyo**, Junior, Aerospace Engineering, ENG  
 (Research Mentor(s): Holly Golecki, Bioengineering)

**95. Dialogue Schema Induction**

**Stuti Agrawal**, Sophomore, Computer Science, ENG  
**Nishi Uppuluri**, Freshman, Computer Science & Linguistics, LAS  
 (Research Mentor(s): Heng Ji, Computer Science)

**96. Electrifying Chemistry: Characterizing TEMPO-based Electrocatalysts for Isopropanol to Acetone Conversion in Novel Heat Pumps**

**Michelle Zorigt**, Sophomore, Chemistry, LAS  
 (Research Mentor(s): Abhiroop Mishra, Materials Science & Engineering & Joaquin Rodriguez Lopez, Chemistry)

**97. Engineering the First Transgenic Anemonefish Amphiprion Ocellaris for Studying Socially Influenced Sex Change**

**Emma Ibanez**, Graduated December 2022, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Justin Rhodes, Psychology)

**98. Exercised-Induced Changes in Strain Distribution of Growing Cortical Bone**

**Anjali Goel**, Junior, Mechanical Engineering, ENG  
 (Research Mentor(s): Mariana Kersh, Mechanical Science & Engineering & Joshua Craggette, Mechanical Science & Engineering)

**99. Fabrication of Mineralized Collagen Scaffold-Based 3D High Throughput Screening (HTS) Array**

**Melisande Wong Yan Ling**, Senior, Chemical Engineering, LAS  
 (Research Mentor(s): Aliko Kolliopoulos, Chemical & Biomolecular Engineering)

**100. How Do We Get Protein into Human Cells?**

**Driss El Andlosy**, Parkland College  
 (Research Mentor(s): Yuhan Wang, Center for Biophysics & Quantitative Biology)

**101. Implementation of DIGIT Vision-Based Tactile Sensor for Robotics Gripper**

**Zikun Liu**, Freshman, Computer Engineering, ENG  
 (Research Mentor(s): Holly Dinkel, Aerospace Engineering & Timothy Bretl, Aerospace Engineering)

**102. Influence of the Gut-Microbiome and Diisononyl Phthalate (DINP) Exposure on Uterine Development in Mice**

**Vanessa Salgado**, Senior, Animal Sciences, ACES  
**Jacqui Nguyen**, Junior, Molecular & Cellular Biology, LAS  
 (Research Mentor(s): Romana Nowak, Animal Sciences)

**103. Instructional Tools for Beginner Conversational Programmers**

**Yoshee Jain**, Freshman, Computer Science, ENG  
(Research Mentor(s): Katie Cunningham, Computer Science)

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**104. Investigation of Pumped Hydro Storage in Abandoned Mines**

**Tiana Bojic**, Freshman, Civil & Environmental Engineering, ENG  
(Research Mentor(s): Youssef Hashash, Civil & Environmental Engineering)

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**105. Measuring the Quality of Machine Translation Systems on the Mandarin Reduplication Phenomenon**

**Emma Shu**, Freshman, Computer Science & Linguistics, LAS  
(Research Mentor(s): Brennan Dell, Linguistics)

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**106. Optimization of Air Light Guides for New ATLAS and CMS Zero Degree Calorimeters for LHC High Luminosity Operations**

**Samantha Lund**, Junior, Engineering Physics, ENG  
(Research Mentor(s): Matthias Grosse Perdekamp, Physics & Riccardo Longo, Physics)

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**107. Photometric Classification of Kilonova Using Multi Messenger Astrophysics**

**Ved Shah**, Junior, Computer Science & Astronomy, LAS  
(Research Mentor(s): Gautham Narayan, Astronomy)

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**108. Surface Tension Driven Convection During Frontal Polymerization for Tunable Surface Patterns**

**Aarav Seth**, Sophomore, Materials Science & Engineering, ENG  
(Research Mentor(s): Justine Paul, Materials Science & Engineering)

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**109. Technology Support for Online Interventions that Prioritize Social Engagement**

**Noah Olivero**, Sophomore, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): George Mois, Human Factors & Aging Lab)

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**110. Technology, Security & Privacy Portrayals in Teen Dramas**

**Sailaja Nallacheruvu**, Sophomore, Computer Science, ENG  
**Efthalia Karas**, Senior, Computer Science & Math, LAS  
(Research Mentor(s): Camille Cobb, Computer Science)

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**111. The Impact of Solvent Structures and Transition State Size on Alkene Epoxidation Turnover Rates Over Ti-MFI Zeolite**

**Anna Schellin**, Senior, Chemical Engineering, LAS  
(Research Mentor(s): Chris Torres, Chemical & Biomolecular Engineering & David Flaherty, Chemical & Biomolecular Engineering)

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**112. TrackDLO: Tracking Deformable Linear Objects Under Occlusion with Motion Coherence**

**Jingyi Xiang**, Junior, Electrical Engineering, ENG  
(Research Mentor(s): Holly Dinkel, Aerospace Engineering)

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**113. Training Image Segmentation Models for Deformable Linear Objects, on HAL**

**Yash Rathod**, Sophomore, Computer Science, ENG  
(Research Mentor(s): Holly Dinkel, Aerospace Engineering)

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**114. Data Layout and Computation Schedule Co-Design for Node/Edge Traversal in Graph Neural Networks**

**Frank Li Fan**, Freshman, Undeclared, DGS  
(Research Mentor(s): Kun Wu, Electrical & Computer Engineering)

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# Image of Research Competition

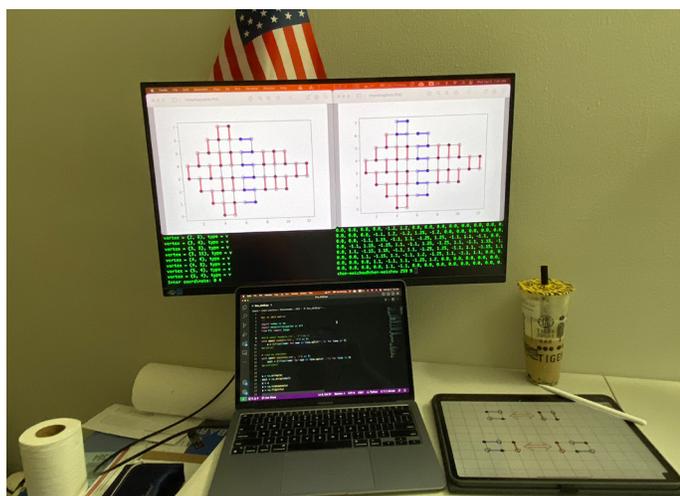
Each image you see in this section has an accompanying narrative.  
 You can read the narratives that go along with each submission at:  
<https://publish.illinois.edu/imageofresearch/2023-undergraduate-entries/>

The Image of Research is a multidisciplinary competition celebrating the diversity and breadth of undergraduate student research at the University of Illinois at Urbana-Champaign. All undergraduate students were invited to submit entries consisting of an image and brief text that articulates how the image relates to the research.

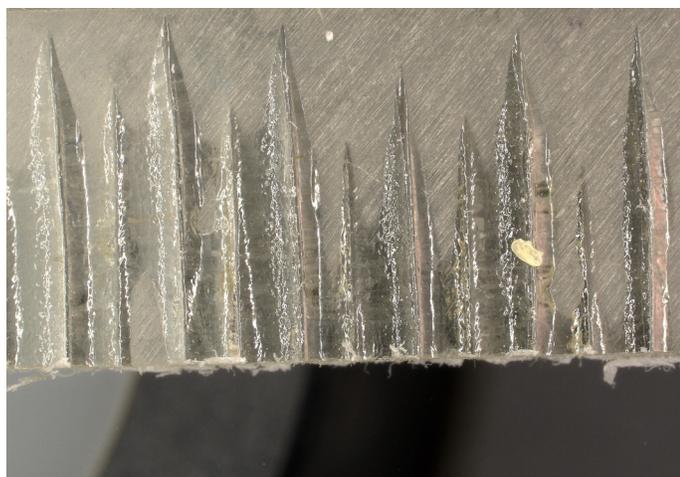
The Image of Research is organized by the Scholarly Commons of the University Library and the Office of Undergraduate Research and is supported by a generous gift to the Scholarly Commons from the Division of Intercollegiate Athletics.

## 2023 Competition Judges

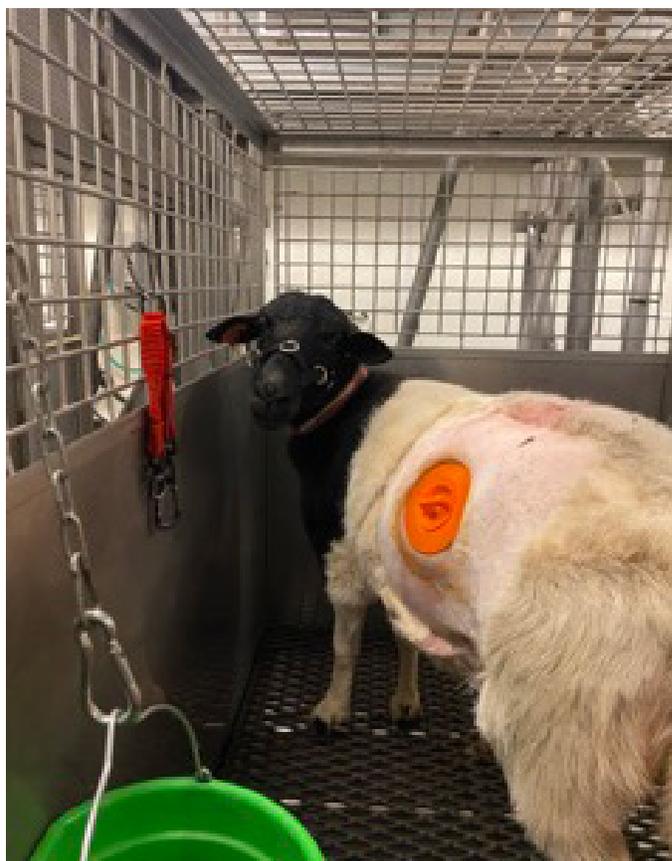
- **Sarah Blanco**, Library Specialist, Teaching, Learning, and Academic Support
- **Libby Cave**, Graduate Student, iSchool
- **Lonnie Clark Jr.**, Library Specialist, Teaching, Learning, and Academic Support
- **Merinda Kaye Hensley**, Research Programs Liaison and Instruction Librarian
- **Eric Kurt**, Media Commons Coordinator
- **Elizabeth Rockman**, Associate Director, Campus Honors Program
- **Karen Rodriguez'G**, Director, Office of Undergraduate Research



*Ideas from Flag and Bubble Tea*  
**Chen-Wei Chou**, Senior, Mathematics, LAS

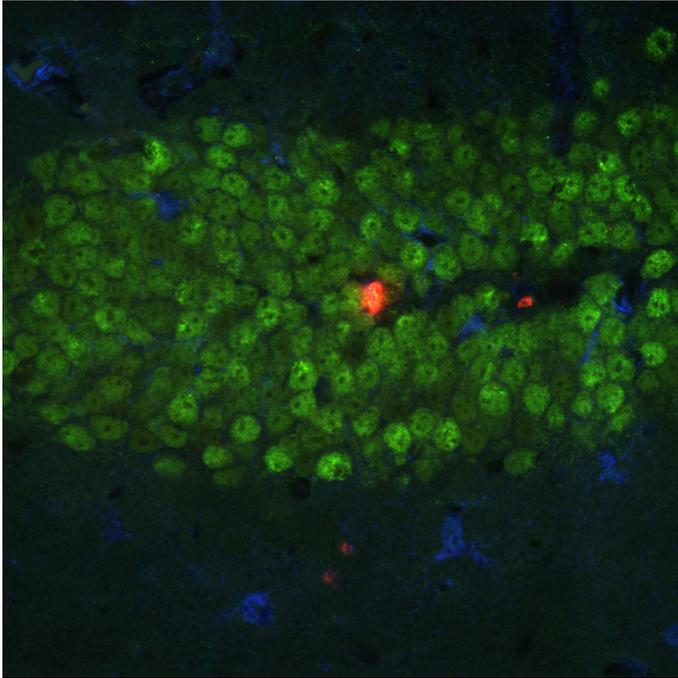


*Not So Smooth After All: Uncovering the Hidden Properties of Deconstructible DCPD Thermoset Plastics*  
**Andrew Lum**, Sophomore, Material Science & Engineering, ENG

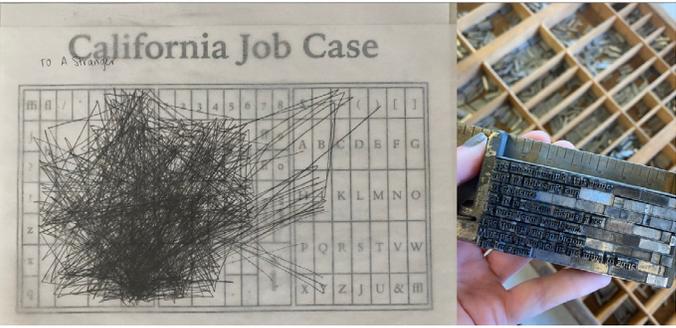
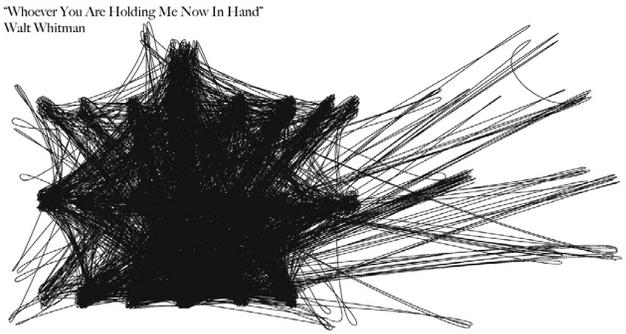


*Baa-baa Black Sheep, How Important Is Your Rumen Digestibility?*  
**Emma Prybylski**, Junior, Animal Sciences, ACES

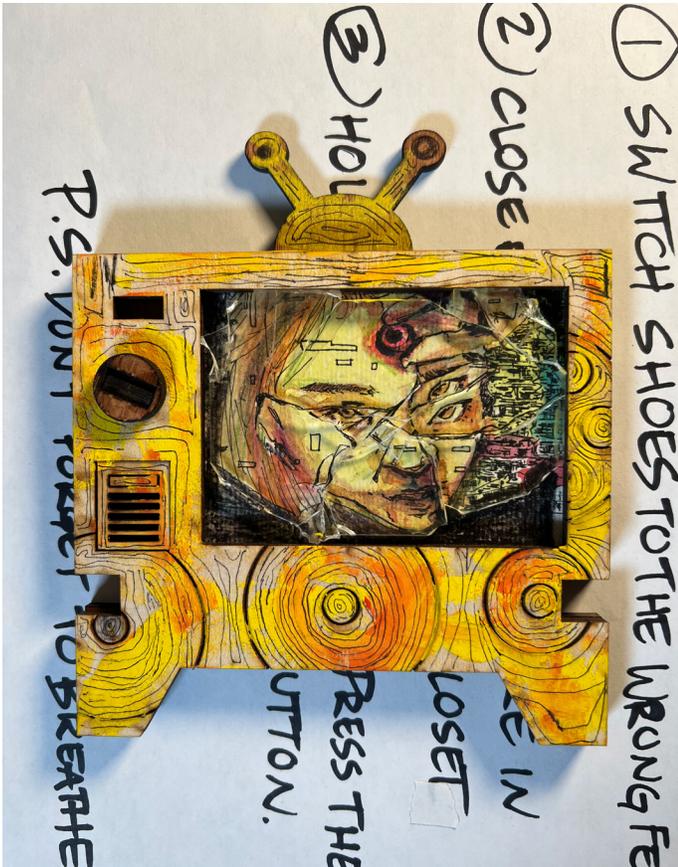
To view past entries, please visit:  
<https://publish.illinois.edu/imageofresearch/undergraduate-image-of-research/undergraduate-past-competitions/>



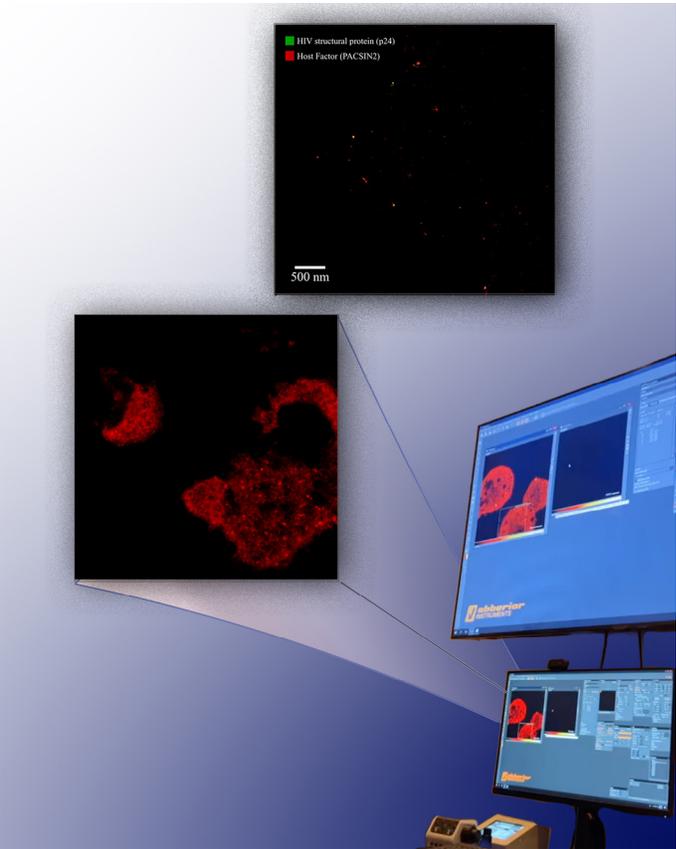
*The Chosen Neuron*  
**Prithika Ravi**, Sophomore, Psychology, LAS



*Composing Whitman: Mapping Typography*  
**Keely Kuester**, Sophomore, English, LAS



*Yellow Hollywood*  
**Alex Gallegos**, Sophomore, Media & Cinema Studies, COM



*Magnifying a Molecule: MINFLUX Nanoscopy of an HIV-Infected Cell*  
**Neha Arun**, Senior, Molecular & Cellular Biology, LAS

# Grant Recipients

The Office of Undergraduate Research (OUR) is committed to supporting Illinois undergraduates in all aspects of their research endeavors. Through Conference Travel Grants and Research Support Grants, OUR offers financial support to fund students' research and creative activities across all disciplines on campus. For more information on these grants and how they may support you during your research journey, please contact OUR.

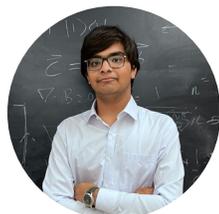
## Research Support Grant (RSG)

The Research Support Grant (RSG) provides students from all disciplines with the funds necessary to conduct research or creative projects during the academic year both on and off campus (including summer terms). Awards will be up to \$2,000 and are meant to cover research travel costs, living expenses incurred during academic breaks, and materials or other ancillary costs.

For more information, please visit:

[http://go.illinois.edu/OUR\\_RSG](http://go.illinois.edu/OUR_RSG)

## RECENT WINNERS:



*Development of a Remotely Controlled Robotic Arm for Cable Connections in the HL-LHC Tunnel*  
**Chinmay Ambasht**, Freshman, Astronomy, LAS  
 (Research Mentor: Matthias Grosse Perdekamp, Physics)



*Developing and Testing Plant-Based Scaffolds for Fish Cell-Lines*  
**Dylan Hendrixson**, Junior, Chemical & Biomolecular Engineering, LAS  
 (Research Mentor: Gregory Underhill, Bioengineering)



*The Role of Brain Derived Neurotropic Factor in Withdrawal-induced Amotivation Following Repeated Exposure to Methamphetamine*  
**Joseph Caruana**, Senior, Brain & Cognitive Science, LAS  
 (Research Mentor: Joshua Gulley, Psychology)



*The Impact of Resident-Led Greening on Subjective Well-Being*  
**Jeffrey Hudson**, Junior, Earth, Society & Environmental Sustainability, LAS  
 (Research Mentor: Bill Stewart, Department of Recreation, Sport & Tourism)



*Portable Aisle Chair Design*  
**Phillip Croft**, Sophomore, Industrial Design, FAA  
 (Research Mentor: Adam Bleakney, School of Art + Design)



*Genetic Analysis of Mixed-Species Biofilms*  
**Ishan Joshi**, Junior, Biochemistry, LAS  
 (Research Mentor: Pratik Banerjee, Food Science & Human Nutrition)



*Efficacy of Combinatorial Hormone Therapies on ER+ Metastatic Breast Cancer Cell Lines*  
**Alanna Kaminsky**, Senior, Food Science & Human Nutrition, ACES  
 (Research Mentor: Zeynep Madak-Erdogan, Food Science & Human Nutrition)



*Portable Aisle Chair Design*  
**Annika Sornson**, Senior, Industrial Design, FAA  
 (Research Mentor: Adam Bleakney, School of Art + Design)

RECENT WINNERS:



*3D Visualizations of Massive Black Hole Disks on Supercomputers*  
**Mit Kotak**, Senior, Engineering Physics, ENG  
(Research Mentor: Stuart Shapiro, Physics)



*Mechanisms Underlying Parental Care in Glassfrogs (*Hyalinobatrachium fleischmanni*)*  
**Abigail Stevenson**, Sophomore, Psychology, LAS  
(Research Mentor: Eva Fischer, Evolution, Ecology & Behavior)



*Developing and Testing Plant-Based Scaffolds for Fish Cell-Lines*  
**Lauren Krause**, Senior, Bioengineering, ENG  
(Research Mentor: Gregory Underhill, Bioengineering)



*Measuring the Impact of Renewable Energy Potential, Policy, and Output on Statewide Energy Sector Employment*  
**Tyler Swanson**, Senior, Agricultural & Consumer Economics, ACES  
(Research Mentor: Renata Endres, Agricultural & Consumer Economics)



*Developing and Testing Plant-Based Scaffolds for Fish Cell-Lines*  
**Megan Lu**, Freshman, Brain & Cognitive Science, LAS  
(Research Mentor: Gregory Underhill, Bioengineering)



*Nanopillar-Array Electrodes for Enhancing Biological Neural Network Signal to Noise*  
**Chun-Chia Tsai**, Sophomore, Materials Science & Engineering, ENG  
(Research Mentor: Qing Cao, Materials Science & Engineering)



*Developing and Testing Plant-Based Scaffolds for Fish Cell-Lines*  
**Xueyi Lu**, Freshman, Anthropology, LAS  
(Research Mentor: Gregory Underhill, Bioengineering)



*The Effects of Repeated Methamphetamine Exposure on Neuroimmune Function in Rats*  
**Anna Tsyruelnikov**, Senior, Molecular and Cellular Biology, Psychology, LAS  
(Research Mentor: Joshua Gulley, Psychology)



*Light Guide Optimization for ATLAS and CMS Zero Degree Calorimeters*  
**Samantha Lund**, Junior, Physics, LAS  
(Research Mentor: Matthias Perdekamp, Physics)



*Political Participation in Belmont Cragin: Identifying Strategies and Issues when Building Political Power in a Latinx Neighborhood of Chicago*  
**Fatima Valerio**, Senior, Latino/a Studies, LAS  
(Research Mentor: Natalie Lira, Latino/a Studies)



*Portable Aisle Chair Design*  
**Isaiah Rigo**, Junior, Industrial Design, FAA  
(Research Mentor: Adam Bleakney, School of Art + Design)



*Gravitational Waves from Tilted Black Holes with Self-Gravitating Accretion Disks*  
**Eric Yu**, Junior, Physics, ENG  
(Research Mentor: Stuart Shapiro, Physics)



*Developing and Testing Plant-Based Scaffolds for Fish Cell-Lines*  
**Gunn Sreshthaputra**, Sophomore, Food Science, ACES  
(Research Mentor: Gregory Underhill, Bioengineering)



*Moringa Protein Functionalized Cotton Filters for Enteric Viruses in Groundwater*  
**Gang Zheng**, Senior, Civil & Environmental Engineering, ENG  
(Research Mentor: Thanh Huong Nguyen, Civil & Environmental Engineering)

## Conference Travel Grant (CTG)

The Conference Travel Grant (CTG) provides undergraduate students with awards of up to \$400 to subsidize costs associated with presenting their research posters, papers, or creative works at in-person and virtual professional conferences. This year, we proudly supported 26 students in presentations of their scholarly and creative endeavors at a wide range of in-person and virtual conferences.

For more information, please visit:

[http://go.illinois.edu/OUR\\_CTG](http://go.illinois.edu/OUR_CTG)

### RECENT WINNERS:



*Evaluating the Association of Self-efficacy on Changes in PTSD Symptoms*

**Chiara Awatramani**, Senior, Psychology, LAS  
(Research Mentor: Sarah Pridgen, Rush University Medical Center)



*Understanding Migration Characteristics of the Northern Saw-Whet Owl in Central Illinois*

**David Edlund**, Senior, Natural Resources & Environmental Sciences, ACES  
(Research Mentor: Michael Ward, Natural Resources and Environmental Sciences)



*Understanding Migration Characteristics of the Northern Saw-Whet Owl in Central Illinois*

**Lauren Brunk**, Senior, Natural Resources & Environmental Sciences, ACES  
(Research Mentor: Michael Ward, Natural Resources & Environmental Sciences)



*Programmable Exon Skipping by Simultaneous Base Editing of Splice Donors and Acceptors*

**Gianna Elias**, Senior, Bioengineering, ENG  
(Research Mentor: Pablo Perez-Pinera, Bioengineering)



*Native American Narratives in Museum Interpretation: Case Studies in Illinois*

**Mary Burdette**, Senior, Anthropology, LAS  
(Research Mentor: Brandon Ritchison, Anthropology)



*Instructional Assessing the Potential of Voice-Activated Digital Home Assistants for Older Adults with Mobility Disabilities*

**Husna Hussaini**, Junior, Sociology, LAS  
(Research Mentor: Wendy Rogers, Kinesiology & Community Health)



*Novel Surgical Tool (SLICE) for Laparoscopic Myomectomy*

**Neel Chhaochharia**, Senior, Mechanical Engineering, ENG  
(Research Mentor: Huseyin Schitoglu, Mechanical Science & Engineering)



*Understanding Migration Characteristics of the Northern Saw-Whet Owl in Central Illinois*

**Isabelle Jaquet**, Senior, Natural Resources & Environmental Sciences, ACES  
(Research Mentor: Michael Ward, Natural Resources & Environmental Science)



*Novel Surgical Tool (SLICE) for Laparoscopic Myomectomy*

**Griffin DiStasi**, Senior, Mechanical Engineering, ENG  
(Research Mentor: Huseyin Schitoglu, Mechanical Science & Engineering)



*Efficiently Executing Discontinuous Galerkin Finite Element Method (DG-FEM) Workloads on GPUs via Data Flow Graphs*

**Mit Kotak**, Senior, Engineering Physics, ENG  
(Research Mentor: Andreas Kloeckner, Computer Science)



*Window Collision Species Composition on a College Campus in the Midwest*

**Colin Dobson**, Senior, Natural Resources and Environmental Sciences, ACES  
(Research Mentor: Michael Ward, Natural Resources & Environmental Sciences)



*Connecting Motivations for Graduate School with Learning Experiences of Engineering Undergraduates: A Gender Perspective*

**Mayura Kulkarni**, Junior, Electrical Engineering, ENG  
(Research Mentor: Holly Golecki, Bioengineering)

RECENT WINNERS:



*Adverse Childhood Experiences, Intimate Partner Violence, Anger, and Mental Health Symptoms Among Incarcerated Women*  
**Christine Kwon**, Junior, Social Work, SSW  
(Research Mentor: Rachel Garthe, School of Social Work)



*It's Just That Sudden Feeling of Being Transported: Music as A Digital Possession After a Romantic Relationship Ends*  
**Katha Patel**, Sophomore, Political Science, LAS  
(Research Mentor: Anthony Pinter, University of Colorado-Boulder)



*Illinois' Coordinated Care Approach to Reducing Childhood Asthma Disparities in Metro and South Suburban Chicago*  
**Madison Lamphear**, Junior, Interdisciplinary Health Sciences, AHS  
(Research Mentor: Sarah Geiger, Kinesiology & Community Health)



*Novel Surgical Tool (SLICE) for Laparoscopic Myomectomy*  
**Rahul Ramkumar**, Senior, Mechanical Engineering, ENG  
(Research Mentor: Huseyin Sehitoglu, Mechanical Science & Engineering)



*In A League of Their Own: Preliminary Findings on Peer Attitudes Toward F-1 Visa Holders from a Limited Conjoint Experiment Among Students at a Large Public University*  
**Sidney Malone**, Senior, Political Science, LAS  
(Research Mentor: Yujeong Yang, Political Science)



*Soft Robotic Wearable Technologies for Use in Pressure Measurement and Relief for Wheelchair Users*  
**Jason Robinson**, Sophomore, Bioengineering, ENG  
(Research Mentor: Holly Golecki, Bioengineering)



*The Mars Ice Thermal Harvesting Rig and ISRU Laboratory (MITHRIL)*  
**Sara McCarthy**, Sophomore, Aerospace Engineering, ENG  
(Research Mentor: Michael Lembeck, Aerospace Engineering)



*Temperatures And Residence Times of The Amalia Tuff: Results of Titanium-In-Quartz Thermometry and Diffusion Modeling*  
**Valerie Smykalov**, Senior, Geology, LAS  
(Research Mentor: Craig Lundstrom, Geology)



*Organotypic Models Reveal the Role of the Tumor Microenvironment in Glioblastoma Progression and Therapeutic Response*  
**Joseph Mueller**, Sophomore, Chemical Engineering, LAS  
(Research Mentor: Sara Pedron Haba, Chemical & Biomolecular Engineering)



*Promoting a Culture of Wellness in Engineering: Perceptions and Ideas from Faculty and Staff*  
**Sara Vohra**, Senior, Bioengineering, ENG  
(Research Mentor: Karin Jensen, Bioengineering)



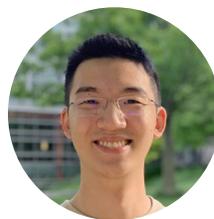
*Design of Fabric-Reinforced Polyurethane Composites for Aortic and Other Cardiac Constructs*  
**Charmaine Nieves**, Senior, Mechanical Engineering, ENG  
(Research Mentor: Holly Golecki, Bioengineering)



*Sponsored Advertising Bid Management Tools in Online Marketplace*  
**Wenxiao Yang**, Senior, Mathematics, LAS  
(Research Mentor: Yunchuan (Frank) Liu, Business Administration)



*The Mars Ice Thermal Harvesting Rig and ISRU Laboratory (MITHRIL)*  
**Komol Patel**, Senior, Aerospace Engineering, ENG  
(Research Mentor: Michael Lembeck, Aerospace Engineering)



*Provable Defense Against Geometric Transformations*  
**Rem Yang**, Senior, Computer Science, ENG  
(Research Mentor: Sasa Misailovic, Computer Science)

# Undergraduate Research Certificate Awardees

The Undergraduate Research Certificate celebrates the hard work and dedication of those undergraduate researchers who go above and beyond to engage with research on campus. This certificate program equips students with essential skills such as critical thinking, problem-solving, and communication, preparing them for their future careers and graduate studies. We extend our congratulations to all our AY2021/2022 Undergraduate Research Certificate recipients for their outstanding achievement!



**Jacob Reed**, Sociology, LAS

**Alastair Merrett**, Urban Planning, FAA

**Elisabeth Martin**, Bioengineering, ENG

**Carolyn Oh**, Molecular & Cellular Biology, LAS

**Ellie Cho**, Molecular & Cellular Biology, LAS

**Kayla Marie Vittore**, Crop Sciences, ACES

**Madisyn Welsh**, Social Work, SSW

**Srishti Tiwari**, Molecular & Cellular Biology, LAS

**Amanda Yeazel**, Social Work, SSW

**Katherine Lim**, Community Health, AHS

**Dale Robbennolt**, Civil Engineering, ENG

**Maddie Lamphear**, Interdisciplinary Health Sciences, AHS

**Semira Abera**, Psychology, LAS

**Tathagata Banerjee**, Engineering Physics, ENG

**Saumya Agrawal**, Statistics & Computer Science, LAS

**Ian Flueck**, Materials Science & Engineering, ENG

**Grace Westphal**, Integrative Biology, LAS

**Ananya Yammanuru**, Computer Science, ENG

**Farah Mohammed Rafee**, Engineering Physics, ENG

**Bhavya Pardasani**, Astronomy, LAS

**Edward Neves**, Chemical & Biomolecular Engineering, LAS

**Alexandra Simon**, Political Science, LAS

**Eleanor Humphreys**, Psychology, LAS

**Alexander Romanov**, Engineering Physics, ENG

**Nimisha Goenka**, Psychology, LAS

**Emily Albert-Stauning**, Psychology, LAS

**Royal Shrestha**, Molecular & Cellular Biology, LAS

**Connor Barnes**, History, LAS

**Jared Angel Canty**, Brain & Cognitive Science, LAS

**Tyler Roberson**, Community Health, AHS

**Xiaoye Zhang**, Media & Cinema Studies, COM

**Ayman Roslend**, Chemistry, LAS

**Edward Kim**, Political Science, LAS

**Clay Ward**, Political Science, LAS

**Stephanie Petrov**, Political Science, LAS

# Undergraduate Research Apprenticeship Program 2023 Cohort

The Undergraduate Research Apprenticeship Program (URAP) offers undergraduate students with little or no research experience the opportunity to work with graduate students and post-doctoral scholars on their research projects, explore the culture and process of research, and build on their existing abilities within a community of scholars. Running each Spring semester, URAP consists of two equally important parts: a one-on-one research experience with their research mentor, and the Introduction to Research course. The course is designed to complement the research mentoring experience, orienting undergraduate mentees to broader topics in the research process.

Below we showcase and celebrate the undergraduate scholars as well as their mentors and thank them for an outstanding semester.

**More information about URAP can be found at:**

<https://undergradresearch.illinois.edu/programs/urap.html>

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**Serwa Adusei-Poku**, Sophomore, Biochemistry, LAS  
(Research Mentor: Kylee Noel, Entomology)

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**Jose Arellano**, Junior, History, LAS  
(Research Mentor: Yusra Alhadidi, Civil & Environmental Engineering)

---

**Geovany Arias**, Junior, Engineering Mechanics, ENG  
(Research Mentor: Civil & Environmental Engineering)

---

**Ria Bhargava**, Freshman, Systems Engineering, ENG  
(Research Mentor: Ruolin Zhang, Civil & Environmental Engineering)

---

**Jolene Blodgett**, Sophomore, Natural Resources & Environmental Sciences, ACES  
(Research Mentor: Ratna Karatgi, Program in Ecology, Evolution & Conservation Biology)

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**Chen-Wei Chou**, Senior, Mathematics, LAS  
(Research Mentor: Trung Vu, Mathematics)

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**JP Colarelli**, Sophomore, Biochemistry, LAS  
(Research Mentor: Yanlin Lei, Food Science & Human Nutrition)

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**Maritza Concepción**, Sophomore, Community Health, AHS  
(Research Mentor: Yuliana Soto, Kinesiology & Community Health)

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**Jorge Corral**, Senior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor: Hannah Molitor, Civil & Environmental Engineering)

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**Ella Corriere**, Freshman, Psychology, LAS  
(Research Mentor: Allison Carrington, School of Social Work)

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**Emir Faisal**, Junior, Materials Science and Engineering, ENG  
(Research Mentor: Javier Garcia Mainieri, Illinois Center for Transportation)

---

**Frank Li Fan**, Junior, Undeclared, DGS  
(Research Mentor: Kun Wu, Electrical & Computer Engineering)

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**Christine Fink**, Sophomore, Molecular and Cellular Biology, LAS  
(Research Mentor: Valeria Trivellone, Prairie Research Institute)

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**Achintya Gahalaut**, Sophomore, Computer Engineering, ENG  
(Research Mentor: Holly Dinkel, Aerospace Engineering)

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**Ananya Gahalaut**, Sophomore, Computer Engineering, ENG  
(Research Mentor: Sushant Dinesh, Computer Science)

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**Michael Gergeni**, Freshman, Sociology, LAS  
(Research Mentor: Myung Jung Kim, Political Science)

**Michelle Giovacchini**, Sophomore, Astronomy, LAS  
(Research Mentor: Brandon Kamiyama, Nuclear, Plasma & Radiological Engineering)

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**Effie Gong**, Junior, Materials Science and Engineering, ENG  
Research Mentor: Javier Garcia Mainieri, Illinois Center for Transportation

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**Daniela Hernandez**, Senior, Community Health, AHS  
(Research Mentor: Rebeca Agosto Rosa, Political Science)

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**Jonathan Hu**, Freshman, Electrical & Computer Engineering, ENG  
(Research Mentor: David Mitchell, Electrical & Computer Engineering)

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**Vanesu Jakachira**, Junior, Psychology, LAS  
(Research Mentor: Imani Canton, Kinesiology & Community Health)

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**Chenyu Jiang**, Junior, Political Science, LAS  
(Research Mentor: Shuyuan Shen, Political Science)

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**Serena Jobi**, Sophomore, Mathematics, LAS  
(Research Mentor: Joe Coyle, Anthropology)

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**Hannah Kapur**, Freshman, Bioengineering, ENG  
(Research Mentor: Sana Saboowala, Program for Ecology, Evolution & Conservation Biology)

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**Soo Ah Kim**, Freshman, Chemistry, LAS  
(Research Mentor: Seyoung Jung, Political Science)

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**Julia Kreczko**, Sophomore, Psychology: Interdisciplinary Studies, LAS  
(Research Mentor: Allison Carrington, Social Work)

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**Lisa Kwan**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor: Valeria Trivellone, Prairie Research Institute)

---

**Aparna Lakkaraju**, Sophomore, Chemistry, LAS  
(Research Mentor: Soren Warland, Political Science)

---

**Alice Li**, Freshman, Computer Science, ENG  
(Research Mentor: James Steur, Political Science)

---

**Yunhao Liu**, Junior, Computer Science + Economics, LAS  
(Research Mentor: Hyo-Won Shin, Political Science)

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**Julianna Longo**, Freshman, Undeclared, DGS  
(Research Mentor: Abigail Beck, Civil & Environmental Engineering)

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**Maisie Lothian**, Senior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor: Jeongsu Shin, Anthropology)

**Ava Marginean**, Freshman, Political Science, LAS  
(Research Mentor: David Reinhard, Law)

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**Thomas Marousek**, Junior, MCB, Psychology, LAS  
(Research Mentor: Isaiah Raynal, Political Science)

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**Crista Mathers**, Freshman, Undeclared, DGS  
(Research Mentor: Yash Laxman Kamble, Chemical and Biomolecular Engineering)

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**Maya Mert**, Freshman, Industrial Design, FAA  
(Research Mentor: Amirhossein Teimouri, Sociology)

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**Esther Nam**, Freshman, Psychology, LAS  
(Research Mentor: Laura Valderrama, Educational Psychology)

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**William Neff**, Freshman, Political Science, LAS  
(Research Mentor: James Steur, Political Science)

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**Yon Park**, Sophomore, Engineering Mechanics, ENG  
(Research Mentor: Luis Rodriguez Koett, Materials Science & Engineering)

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**Shivam Patro**, Sophomore, Chemical Engineering, LAS  
(Research Mentor: Ravindra Prajapati, Prairie Research Institute)

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**Jennifer Pena**, Sophomore, Anthropology, LAS  
(Research Mentor: Jonathan Pye, Spanish & Portuguese)

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**Shiuli Rai**, Junior, Psychology, LAS  
(Research Mentor: Shiyu Sun, Educational Psychology)

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**Michelle Ru**, Freshman, Computer Science + Chemistry, LAS  
(Research Mentor: Nurila Kamar, Materials Science & Engineering)

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**Anushka Saha**, Sophomore, Biology, LAS  
(Research Mentor: Urbi Saha, Neuroscience & Bioengineering)

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**Emma Shu**, Freshman, Computer Science + Linguistics, LAS  
(Research Mentor: Brennan Dell, Linguistics)

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**Srijan Shukla**, Sophomore, Computer Science + Economics, LAS  
(Research Mentor: Sakshi Bhalla, Institute of Communications Research)

---

**Victoria Siek**, Freshman, History, LAS  
(Research Mentor: Christopher Getowicz, Education, Policy, Organization & Leadership)

---

**Evan Smith**, Junior, Philosophy, LAS  
(Research Mentor: Kaylee Wells, Agricultural and Applied Economics)

**Shivam Srivastava**, Freshman, Economics, LAS  
(Research Mentor: James Steur, Political Science)

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**Matthew Tan**, Freshman, Computer Science, ENG  
(Research Mentor: Daniel Kiv, Computer Science)

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**Samuel Tinubu**, Freshman, Undeclared, DGS  
(Research Mentor: Emma Lundin, Recreation, Sport & Tourism)

---

**Giselle Torres**, Senior, Psychology, LAS  
(Research Mentor: Sara Castro Cantú, Spanish & Portuguese)

---

**Ellin Wang**, Sophomore, Integrative Biology, LAS  
(Research Mentor: Devin Edmonds, Natural Resources & Environmental Sciences)

---

**Jordan Westphal**, Freshman, Mechanical Engineering, ENG  
(Research Mentor: Yaswanth Sai Jetti, Mechanical Science & Engineering)

**Lilyanna Williams**, Sophomore, Linguistics, LAS  
(Research Mentor: Katie VanDyne, Spanish & Portuguese)

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**Olivia Wong**, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor: Yenny Yook, Molecular & Integrative Physiology)

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**Shengan Wu**, Senior, Computer Science + Statistics, LAS  
(Research Mentor: Benjamin Jaspersen, Materials Science & Engineering)

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**Kei Yamato**, Sophomore, Geography & GIS, LAS  
(Research Mentor: Jonathan Oliveira, Recreation, Sport & Tourism)

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**Nancy Zhang**, Freshman, Computer Science + Advertising, Media  
(Research Mentor: Hyunseo Yoon, Recreation, Sport & Tourism)

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**Jay Zhang**, Freshman, Philosophy, LAS  
(Research Mentor: M.J. Salas, Communication)



# Celebrating Our Research Mentors

Exceptional mentoring necessitates ample support, dedicated time, and unwavering commitment. We invited our undergraduate presenters to share their invaluable experiences and the profound impact of their research mentors. The following entries provide just a glimpse of the overwhelming response we received. Alongside our students, we extend our recognition and deepest gratitude to all those who continue to guide and mentor our undergraduate researchers at Illinois.

“ Dr. Godoy, thank you for your continuous support and guidance over the past few years. Working in your lab has hugely impacted my success as an undergraduate, and I cannot thank you enough for all you have taught me. I will carry this experience with me as I move forward to veterinary school.

”

- Savannah Limberg

Research Mentor:  
Maria Cattai de Godoy, Animal Sciences

“ Thank you, Dr. Cardoso, for your endless support during this independent research project! I appreciate your willingness to help me achieve my goal of learning more about the research process. Your mentorship and support are ones I will always be grateful for. You are the best!

”

- Emma Prybylski

Research Mentor:  
Phil Cardoso, Animal Sciences

“ Dear Kun, Thank you for giving me this opportunity to work on your project and for being such an excellent, supportive, and patient mentor! Working with you was a lot of fun, and I learned a lot from you this semester!

”

- Jason Yan

Research Mentor:  
Kun Wu, Electrical & Computer Engineering



“ Mr. Trung, I feel that I am so lucky to have had a golden opportunity to work under your guidance. I will be grateful for the math knowledge and research skills you have imparted to me. Thank you for sharing your passion for research with me. ”

- **Chen-Wei Chou**

Research Mentor:  
Trung Vu, Mathematics



“ Thank you, JT, for being a wonderfully kind, knowledgeable, and supportive mentor over my years here at Illinois. ”

- **Jason Brickman**

Research Mentor:  
John Toenjes, Dance

“ Thank you, Dr. Hunter, for all the support you’ve given me in the past year in so many ways. Since taking Multiculturalism with you, your advice and support has helped me get to where I am today, so I will forever be grateful to you, thank you! ”

- **Rithika Baskar**

Research Mentor:  
Carla Hunter, Psychology

“ Thank you, Dr. Angrave, for your dedication in promoting accessible technology for students at UIUC and across the country. Your ongoing mentorship has deeply enriched my undergraduate research and helped me grow over the past 3 years! ”

- **Joanna Huang**

Research Mentor:  
Lawrence Angrave, Computer Science

“ Thank you to Dr. Pinshane Huang and Dr. Yichao Zhang for your mentorship and guidance. I have learned so much working with you! ”

- **Alice Gao**

Research Mentors:  
Pinshane Huang and Yichao Zhang,  
Materials Science & Engineering

“ Thank you Dr. Kuo, for your substantial support throughout this school year. I will always be thankful that you took the time to mentor me to elevate my thoughts and research. ”

- **Alex Gallegos**

Research Mentor:  
Rachel Kuo, Media & Cinema Studies



“ Thank you so much, So Young, for your incredible support and mentorship over the last two years! I'm so grateful to know and have had the opportunity to work and learn from you!

”

- Julianne Enas

Research Mentor:

So Young Park, Human Development & Family Studies



“ Holly, thank you for encouraging me whenever I feel unconfident about my work, for helping me grow as both a researcher and an individual, for always keeping me in mind for professional development opportunities, and for so much more. Thank you for making my first research experience a great one.

”

- Jingyi Xiang

Research Mentor:

Holly Dinkel, Aerospace Engineering

“ Thank you, Dr. Channell, for all your help in the lab! We genuinely appreciate all of your support and guidance throughout the semesters. Your passion is inspiring, and we are grateful for the time we have shared and will continue to share with one another.

”

- Madison Barrera, Abigail Keasler and Alexa Mendoza

Research Mentor:

Marie Moore Channell, Speech & Hearing Science

“ Gunnar, I truly appreciate your unwavering support and belief in my abilities throughout my project. Your expertise has been invaluable in helping me navigate the challenges of the research process, and your mentorship has helped me grow as a researcher. I will ensure to carry your advice into my career.

”

- Vincent Lam

Research Mentor:

Gunnar Thompson, Chemical & Biomolecular Engineering



# Partner Offices

The Office of Undergraduate Research takes great pride in fostering collaborations with various offices that actively promote and support undergraduate scholarship and creative activities at Illinois.

## National and International Scholarships

Every year, University of Illinois students successfully apply for nationally and internationally competitive scholarships, supported and guided by the National and International Scholarships (NIS) Program. NIS aims to help high-achieving Illinois undergraduates and alumni prepare for these scholarships through valuable advising and feedback for applicants. Students should consider applying for one or more awards if they are dedicated to a mission or vocation, whether it is research, policy, or service-based! If you are interested in pursuing such awards, NIS can help you unlock your potential and become a stronger candidate. Interested students—from freshmen to recent alumni—are encouraged to visit NIS to discuss these opportunities.

The Office of Undergraduate Research applauds the work by NIS and proudly congratulates the following winners of these nationally and internationally competitive awards.

### The Goldwater Scholarship

**Are you a STEM researcher?** The Barry M. Goldwater Scholarship recognizes students who demonstrate a strong commitment to a research career in math, science, or engineering. Successful applicants display intellectual curiosity and possess potential for significant future contributions in their chosen field. The scholarship is for juniors or exceptional sophomores who are current U.S. citizens, U.S. nationals, or resident aliens. In addition to receiving one- or two-year \$7,500 awards, Goldwater recipients also become part of a cohort of scholars. Applicants should be committed to pursuing a Ph.D. in the research fields of mathematics, sciences, or engineering.

**Deadline:** The campus deadline is November 27, 2023. For more information and support with applying, please contact NIS.

**Website:**

<https://topscholars.illinois.edu/>

**Email:**

[topscholars@illinois.edu](mailto:topscholars@illinois.edu)

**Physical Location:**

National & International Scholarships Program  
Illini Union Bookstore  
807 South Wright Street,  
Suite 520  
Champaign, IL 61820

## RECENT WINNER:



**Braden Moore**

## The Fulbright Scholarship

**Are you looking for an exciting way to spend a year abroad after you graduate?** The Fulbright The Fulbright U.S. Student Program awards approximately 2,100 full scholarships annually for U.S. citizens to pursue an academic year experience in over 130 countries worldwide. Juniors, seniors, and alumni may apply to pursue a research project or a graduate degree program abroad. In addition, applications may be submitted to spend one year as an English Teaching Assistant (ETA) in any of almost 80 countries. The University of Illinois perennially is recognized by The Chronicle of Higher Education as a Top Producing Institution of Fulbright student awards.

**Deadline:** The campus deadline is August 28, 2023. For more information and support with applying, please contact NIS.

## Schwarzman Scholars

**Are you aspiring to be a global leader in your field?** Schwarzman Scholars is a program for the next generation of young leaders, anchored in a fully funded, 11-month master's degree in Global Affairs at Beijing's Tsinghua University. The experience encompasses amazing opportunities in and outside the classroom, including extensive leadership training, a network of senior mentors, internships, career development, and travel seminars around China. Schwarzman Scholars prepares young leaders for a world where China plays a vital role. Scholars learn from world class faculty and guest speakers about the emergence of China as an economic and political force through a rigorous and dynamic core curriculum. Students and alumni of any citizenship are eligible.

**Deadline:** The campus deadline is August 24, 2023. (May 20, 2023 for students holding passports from China, Hong Kong, Taiwan, or Macao). For more information and support with applying, please contact NIS.

## Beinecke Scholarship

**Are you a humanities or social sciences student interested in graduate school?** The Beinecke Scholarship offers U.S. citizen juniors \$5,000 immediately prior to entering graduate school and an additional \$30,000 while attending graduate school. The Beinecke is interested in students who demonstrate superior standards of intellectual ability, scholastic achievement, and personal promise. Preference is given to candidates for whom the award would increase the likelihood that they would be able to attend graduate school. Most recipients are students hoping to attain a PhD..

**Deadline:** The campus deadline is January 16, 2024. For more information and support with applying, please contact NIS.

## RECENT WINNERS:



Jan Balan



Sophia Ebel



Mariama Mwilambwe



Folashade Olumola

## RECENT WINNER:



Grace Mitchell

## RECENT WINNER:



Kolten Conklen

## Udall Scholarship

**Are you a passionate environmentalist?** The Udall Scholarship awards \$7,000 to sophomores or juniors who are taking action to address environmental concerns and are committed to a career related to the environment. There are also awards for Native American students interested in Tribal policy or health care. The Udall scholarship honors the legacies of Morris Udall and Stewart Udall, whose careers had a significant impact on Native American self-governance, health care, and the stewardship of public lands and natural resources. Students must be U.S. citizens, U.S. nationals, or U.S. permanent residents. A successful applicant will have a GPA of 3.0 or higher and demonstrate leadership and a commitment to service.

**Deadline:** The campus deadline is January 29, 2024. For more information and support with applying, please contact NIS.

## RECENT WINNERS:



Ethan Moore



Jenna Schaefer



## Writers Workshop

A research university is a writing university. The Writers Workshop provides support for all writers in the campus community—undergraduate and graduate students, post-doctorates, faculty, and staff—via writing consultations, writing groups and retreats, and webinars and presentations. By doing so, the Writers Workshop advances the mission of the University to create an inclusive learning environment that fosters students' abilities to achieve their academic, professional, and personal goals.

The Writers Workshop supports all forms of academic and professional writing, at any stage of the writing process. We provide feedback on essays, research papers, personal statements, cover letters, theses and dissertations, manuscripts for publication, presentations, digital compositions, and anything between and beyond.

**Find more information at:**  
<https://writersworkshop.illinois.edu/>

## University Library

Librarians and staff provide innovative services, technology, collections, and environments to enhance collaboration and exploration; engage students in the inquiry process and educate them in their roles as content consumers and creators in the design, production, and delivery of content and media for research, discovery, and learning; and anticipate new and emerging needs to facilitate undergraduate student success.

**Find more information at:**  
<https://library.illinois.edu/>



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## Invest in Scholars Today

Your generous donation to the Office of Undergraduate Research can make a profound difference in the lives of our Illinois undergraduate researchers.

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	Kim, Jalyng: ISUR Program Research Expo
	Kim, Kihong: Cancer Center Research Symposium

Kim, Edward: Certificate Awardees	Liu, Zikun: Poster PR - Science & Technology
Kindratenko, Victoria: ISUR Program Research Expo	Loewenstein, Alina: Poster PP - Language, Culture & Society
King, Nicholas: Oral Panel - Social Issues and the Human Experience	Long, Wenqian: Oral Panel - Learning Experiences and Human Development
Kirsten, Erin: Poster PK - Science & Technology	Longo, Julianna: Poster PE - Science & Technology
Klein, Eleanor: Parkland Honors Program	Lopez, Isaiah: Poster PA - Cells & Molecules
Klostermann, Mallory: Oral Panel - Engineering Technologies: Object Manipulations; Pattern Analyses; Poster PQ - Data, Information & Machine Learning	Lopez, Bella: Poster PF - Social Science & Human Behavior
Koch, Kelsey: Poster PL - Food Systems	Lothian, Maisie: Poster PF - Social Science & Human Behavior
Koehler, Lincoln: Poster PL - Food Systems	Lott, Morgan: Poster PG - Learning & Development
Kogan, Healey: ISUR Program Research Expo	Lovrich, Eliza: ISUR Program Research Expo
Komar, Jessica: Poster PE - Science & Technology	Lozano Guajardo, Jessica: Poster PO - Cells & Molecules
Kompella, Vishnu: Poster PO - Cells & Molecules	Lu, Austin: Poster PQ - Data, Information & Machine Learning
Kosmacher, Gabriel: Oral Panel - Plants and Animals	Lu, Megan: Celebrating Our Student Scholars
Kotak, Mit: Oral Panel - Science and Computation: Novel Systems; Celebrating Our Student Scholars	Lu, Xueyi: Celebrating Our Student Scholars
Kotwani, Palak: ISUR Program Research Expo	Lucas, Lilian: Poster PE - Science & Technology
Kozyra, Patrick: Poster PN - Nature, Life & Environment	Lukhanin, Nikita: Oral Panel - Design Thinking: Developing Innovative Tools and Techniques in Health Literacy; Compliant Mechanisms; and Robotic Motion Planning
Kraft, Grace: Illinois Distributed Museum Tours	Lum, Andrew: ISUR Program Research Expo; Poster PE - Science & Technology
Krause, Lauren: Celebrating Our Student Scholars	Lund, Samantha: Poster PR - Science & Technology; Celebrating Our Student Scholars
Krauss, Matthew: Poster PJ - Nature, Life, and Environment	Lutsky, Andrew: Poster PO - Cells & Molecules
Kreczko, Julia: Poster PP - Language, Culture & Society	Ma, Maxine: Communication Undergraduate Research Event; Poster PF - Social Science & Human Behavior
Kroncke, Sarah: Poster PJ - Nature, Life, and Environment	Mack, Shyann: Poster PP - Language, Culture & Society
Kuehl, Kate: Poster PQ - Data, Information & Machine Learning	Madhavan, Sana: Poster PM - Health & Wellness
Kujawa, Eli: Poster PE - Science & Technology	Majed, Hani Al: ISUR Program Research Expo
Kulkarni, Mayura: Oral Panel - Questions of Belonging; Celebrating Our Student Scholars	Makris, Ayla: Poster PG - Learning & Development
Kumar, Sarika: Poster PI - Cells & Molecules	Malan, Leah: Poster PB - Science & Technology
Kumar, Anjali: Poster PQ - Data, Information & Machine Learning	Malik, Ammaar: Poster PH - Health & Wellness
Kuttichirayil, Dhiraj: Poster PK - Science & Technology	Malone, Justin: Poster PF - Social Science & Human Behavior
Kwan, Lisa: Poster PN - Nature, Life & Environment	Malone, Sidney: Celebrating Our Student Scholars
Kwon, Christine: Celebrating Our Student Scholars	Manila, Trishelle: Poster PM - Health & Wellness
Lakkaraju, Aparna: Poster PP - Language, Culture & Society	Mankin, Willa: Poster PE - Science & Technology
Lam, Vincent: Poster PI - Cells & Molecules	Manley, Devin: Illinois Distributed Museum Tours
Lamphear, Madison: Celebrating Our Student Scholars	Marginean, Ava: Poster PP - Language, Culture & Society
Lamphear, Maddie: Certificate Awardees	Markowitz, Erin: Poster PH - Health & Wellness
Larson, Nicholas: Poster PD - Social Science & Behavior	Marks, Jade: Oral Panel - Robotic Advancements in Support of Aging Populations
Lau, Isabella: Poster PG - Learning & Development	Marousek, Thomas: Poster PF - Social Science & Human Behavior
Lazdinis, Markas: Poster PF - Social Science & Human Behavior	Martell, Charles: Poster PQ - Data, Information & Machine Learning
Leang, Kanika: Poster PJ - Nature, Life, and Environment	Martin, Alyssa Denise: Poster PC - Health & Wellness
Lee, Cecilia: Poster PC - Health & Wellness	Martin, Allannah: Poster PH - Health & Wellness
Lee, Esther: Poster PE - Science & Technology	Martin, Elisabeth: Certificate Awardees
Lee, Estella: Poster PG - Learning & Development	Martinez, Alam: Parkland Honors Program
Lee, Amy: Poster PG - Learning & Development	Matan, Ashley: Poster PA - Cells & Molecules
Lee, Hana: Poster PK - Science & Technology	Mathan, Malaika: Poster PJ - Nature, Life, and Environment
Lee, Sean: Poster PK - Science & Technology	Mathers, Crista: Poster PE - Science & Technology
Lee, Hahnbit: Poster PM - Health & Wellness	Matthes, Summer: Poster PP - Language, Culture & Society
Lee, Julie: ISUR Program Research Expo	Max, Dillon: Oral Panel - Plants and Animals
Lee, Beulah: ISUR Program Research Expo	Maxwell, Brynn: Oral Panel - Health and Wellness
Levitan, Zoe: Poster PE - Science & Technology	May, Jacob: Poster PI - Cells & Molecules
Lewis, Maia: Poster PG - Learning & Development	McCarthy, Sarah: Celebrating Our Student Scholars
Li, Isabelle: Poster PF - Social Science & Human Behavior	McDonald, Kevin: Poster PA - Cells & Molecules
Li, Zean: Poster PG - Learning & Development	McHenry, Michael: Poster PO - Cells & Molecules
Li, Alice: Poster PP - Language, Culture & Society	McMahon, Aidan: Poster PP - Language, Culture & Society
Li, Cathy: Poster PQ - Data, Information & Machine Learning	Medjes, Shaina: Poster PG - Learning & Development
Li, Samuel: ISUR Program Research Expo	Meehan, Madeleine: Humanities Research Lab Showcase; Poster PO - Cells & Molecules
Lim, Ki: Poster PA - Cells & Molecules	Mehrotra, Shlok: Poster PP - Language, Culture & Society
Lim, Olivia: Poster PG - Learning & Development	Mehta, Arnab: ISUR Program Research Expo
Lim, Casey: Poster PO - Cells & Molecules	Mendez, Dylan: ISUR Program Research Expo
Lim, Katherine: Certificate Awardees	Mendoza, Alexa: Poster PG - Learning & Development
Limberg, Savannah: Poster PA - Cells & Molecules	Meneses, Logan: Poster PP - Language, Culture & Society
Lin, Yantong: Poster PB - Science & Technology	Meng, Jiayin: ISUR Program Research Expo
Lin, Fay: ISUR Program Research Expo	Merrett, Alastair: Certificate Awardees
Lindsay, Aidan: Poster PB - Science & Technology	Merriweather, Cache: Poster PP - Language, Culture & Society
Littlejohn, Sydney: Oral Panel - Nature, Life & Environment	Mert, Maya: Poster PP - Language, Culture & Society
Liu, Yunhao: Poster PF - Social Science & Human Behavior	Mertdogan, Madeline: Poster PL - Food Systems
Liu, Chengxu: Poster PJ - Nature, Life, and Environment	

Meyer, Mackenzie: Poster PP - Language, Culture & Society  
 Meyering, Ella: Poster PL - Food Systems  
 Millunchick, Alex: Poster PM - Health & Wellness  
 Minin, Jacob: Cancer Center Research Symposium; Poster PC - Health & Wellness  
 Miranda, Ethan Jude: Poster PQ - Data, Information & Machine Learning  
 Mitchell, Teague: ISUR Program Research Expo  
 Mitchell, Grace: National & International Scholarships  
 Mitka, Alexa: ISUR Program Research Expo  
 Modesitt, Eric: ISUR Program Research Expo  
 Mohammed, Hanifa: Poster PO - Cells & Molecules  
 Mohan, Tushar: Oral Panel - Science and Computation: Models and Processes  
 Moore, Pierre: Oral Panel - Health and Wellness  
 Moore, Kaylee: Humanities Research Lab Showcase  
 Moore, Braden: National & International Scholarships  
 Moore, Ethan: National & International Scholarships  
 Morales, Ilani: Poster PC - Health & Wellness  
 Moran, Grace: Poster PG - Learning & Development  
 Morgan, Anne: Poster PP - Language, Culture & Society  
 Moucharrafi, Maya: Poster PP - Language, Culture & Society  
 Mu, Cynthia: Cancer Center Research Symposium  
 Muchison, Jaylon: Oral Panel - Storytelling: Novel Approaches  
 Mueller, Joseph: Cancer Center Research Symposium; Poster PO - Cells & Molecules; Celebrating Our Student Scholars  
 Mueller, Emma: Poster PP - Language, Culture & Society  
 Mukhopadhyay, Aaron: Oral Panel - Telling Stories  
 Mulick, Rachel: Poster PP - Language, Culture & Society  
 Murillo, Maritza: ISUR Program Research Expo  
 Murphy, Riley: Oral Panel - Social Issues and the Human Experience  
 Murphy, Kate: Poster PA - Cells & Molecules  
 Murphy, Kevin: Humanities Research Lab Showcase  
 Muruges, Varshini: ISUR Program Research Expo  
 Musunuri, Neha: ISUR Program Research Expo  
 Mutiu, Iris: Poster PI - Cells & Molecules  
 Mwilambwe, Mariama: National & International Scholarships  
 Naffakh, Sana: Poster PC - Health & Wellness  
 Nagalkar, Aneesh: Poster PG - Learning & Development  
 Nagaraja, Amber: Poster PA - Cells & Molecules  
 Nallacheruvu, Sailaja: Poster PR - Science & Technology  
 Nallamotu, Keerthana: Oral Panel - Design Thinking: Developing Innovative Tools and Techniques in Health Literacy; Compliant Mechanisms; and Robotic Motion Planning  
 Nallanthighall, Arya: Poster PQ - Data, Information & Machine Learning  
 Nam, Esther: Poster PG - Learning & Development  
 Nam, Yunji: Poster PH - Health & Wellness  
 Nanda, Pearl: Poster PH - Health & Wellness  
 Neff, William: Poster PD - Social Science & Behavior  
 Neves, Edward: Certificate Awardees  
 Ng, Lydia: Poster PO - Cells & Molecules  
 Nguyen, Hieu: Poster PF - Social Science & Human Behavior  
 Nguyen, Tiffany: Poster PO - Cells & Molecules  
 Nguyen, Jacqui: Poster PR - Science & Technology  
 Nieder, Rachel: Poster PF - Social Science & Human Behavior  
 Nieves, Norberto: Poster PM - Health & Wellness  
 Nieves, Charmaine: ISUR Program Research Expo; Celebrating Our Student Scholars  
 Nizamuddin, Zainab: Poster PD - Social Science & Behavior  
 Norcross, John: Poster PA - Cells & Molecules  
 Novick, Maya: Poster PF - Social Science & Human Behavior  
 Nunez Palomares, Guadalupe: Poster PG - Learning & Development  
 Nystrom, Grace: Poster PQ - Data, Information & Machine Learning  
 O'Berry, Kyle: Poster PI - Cells & Molecules  
 O'Brien, Kate: Poster PN - Nature, Life & Environment  
 Oh, Seungah: Poster PF - Social Science & Human Behavior  
 Oh, Carolyn: Certificate Awardees  
 O'Hara, Katie: Poster PC - Health & Wellness  
 Ojerinde, Favour: Poster PH - Health & Wellness  
 Oladeji, Didun: Poster PE - Science & Technology

Olivares, Leslie: Poster PF - Social Science & Human Behavior  
 Olivero, Noah: Poster PR - Science & Technology  
 Olumola, Folashade: National & International Scholarships  
 Omoniyi, Blessing: Parkland Honors Program  
 Ondevilla, Craig: Parkland Honors Program  
 Ong, Kristel: Poster PH - Health & Wellness  
 Orekoya, Femi: Poster PC - Health & Wellness  
 Paelmo, Mia: Poster PK - Science & Technology  
 Palafox Burbano, Natalia: Poster PP - Language, Culture & Society  
 Pan, Ruiqi: Communication Undergraduate Research Event; Poster PF - Social Science & Human Behavior  
 Pan, Yutong: Poster PM - Health & Wellness  
 Panfil, Holly: Poster PF - Social Science & Human Behavior  
 Pardasani, Bhavya: Certificate Awardees  
 Park, Jaehong: Poster PB - Science & Technology  
 Park, Yeonwook: Poster PK - Science & Technology  
 Parrales, Isabel: Poster PN - Nature, Life & Environment  
 Parrish, Thomas: Poster PJ - Nature, Life, and Environment  
 Patel, Pooja: Poster PC - Health & Wellness  
 Patel, Karishma: Poster PC - Health & Wellness  
 Patel, Aditi: Poster PD - Social Science & Behavior  
 Patel, Kajal: Poster PG - Learning & Development  
 Patel, Ishaan: Poster PM - Health & Wellness  
 Patel, Varshal: Poster PO - Cells & Molecules  
 Patel, Meera: ISUR Program Research Expo  
 Patel, Komol: Celebrating Our Student Scholars  
 Patel, Katha: Celebrating Our Student Scholars  
 Patino, Nicolas: Oral Panel - Science and Computation: Models and Processes  
 Patkar, Rajan: Poster PG - Learning & Development  
 Patro, Shivam: Poster PE - Science & Technology  
 Patterson, Gillian: Poster PJ - Nature, Life, and Environment  
 Pavithran, Tara: Oral Panel - Nature, Life & Environment  
 Pechtl, Sarah: Poster PP - Language, Culture & Society  
 Pena, Jennifer: Poster PD - Social Science & Behavior  
 Peris, Keenan: ISUR Program Research Expo  
 Perry, Quinton: Cancer Center Research Symposium  
 Peters, Genna: Poster PP - Language, Culture & Society  
 Petrov, Stephanie: Certificate Awardees  
 Peyres, Sean: ISUR Program Research Expo; Oral Panel - Science and Computation: Models and Processes  
 Peyyeti, Eisha: Poster PR - Science & Technology  
 Phan, Minh: ISUR Program Research Expo  
 Phillips, Mandela: Poster PK - Science & Technology  
 Phung, Anh: Poster PQ - Data, Information & Machine Learning  
 Pilchen, Atlas: Poster PG - Learning & Development  
 Poelsterl, Krissi: Poster PD - Social Science & Behavior  
 Polanek, Maxwell: ISUR Program Research Expo  
 Porth, Sarah: Poster PN - Nature, Life & Environment  
 Powers, Katrina: Parkland Honors Program  
 Prado, Pedro: ISUR Program Research Expo  
 Prasad, Devika: Poster PB - Science & Technology  
 Pratipati, Sowmya: Poster PD - Social Science & Behavior  
 Prerepa, Aditya: Poster PK - Science & Technology  
 Prybylski, Emma: Poster PL - Food Systems  
 Puppala, Nikhila: Poster PQ - Data, Information & Machine Learning  
 Purohit, Nitika: ISUR Program Research Expo  
 Quero, Nic: Oral Panel - Learning Experiences and Human Development  
 Rafee, Farah Mohammed: ISUR Program Research Expo; Certificate Awardees  
 Rai, Shiuli: Poster PP - Language, Culture & Society  
 Rajagopalan, Shreyas: Oral Panel - Nature, Life & Environment  
 Ramirez, Sean: ISUR Program Research Expo  
 Ramkumar, Rahul: Celebrating Our Student Scholars  
 Ramos, Vanessa: Poster PP - Language, Culture & Society  
 Ranallo, Annalisa: Poster PP - Language, Culture & Society  
 Rathod, Yash: Poster PR - Science & Technology  
 Ratsamy, Kayla: Poster PP - Language, Culture & Society  
 Ravi, Prithika: Poster PB - Science & Technology

Redman, Sarah: Poster PC - Health & Wellness  
 Reed, Jacob: Certificate Awardees  
 Renteria, Paulina: Poster PC - Health & Wellness  
 Rigo, Isaiah: Celebrating Our Student Scholars  
 Robbennolt, Dale: Certificate Awardees  
 Roberson, Tyler: Certificate Awardees  
 Robieson, Isabella: Poster PP - Language, Culture & Society  
 Robinson, Jason: Celebrating Our Student Scholars  
 Rockwell, Hannah: Poster PI - Cells & Molecules  
 Roddy, Moira: Poster PO - Cells & Molecules  
 Rode, Mia: Poster PE - Science & Technology  
 Rodriguez, Olivia: Oral Panel - Cellular Dynamics  
 Rogers, Benjamin: Poster PL - Food Systems  
 Rojas, Olivia: Poster PC - Health & Wellness  
 Romanov, Alexander: Oral Panel - Virtual Realities; Certificate Awardees  
 Roslend, Ayman: Certificate Awardees  
 Rosu, Dan: Poster PB - Science & Technology  
 Ru, Michelle: Poster PE - Science & Technology  
 Rubovits, Eve: Poster PC - Health & Wellness  
 Ryan, Edward: Oral Panel - Identity and Memory  
 Ryan, Nora: Poster PN - Nature, Life & Environment  
 Rzepa, Natalia: Poster PF - Social Science & Human Behavior  
 Rzeszutek, Dominik: Poster PE - Science & Technology  
 Sachdeva, Arshveer: Poster PR - Science & Technology  
 Sadruddin, Rahil: Cancer Center Research Symposium; Poster PH - Health & Wellness  
 Safar, Adira: Cancer Center Research Symposium; Poster PA - Cells & Molecules  
 Saha, Anushka: Poster PO - Cells & Molecules  
 Sahasrabudhe, Chinmay: Oral Panel - Science & Technology: Developments in Biocompatibility  
 Salam, Hanif: Poster PC - Health & Wellness  
 Salgado, Vanessa: Poster PR - Science & Technology  
 Sallenback, Emily: Poster PF - Social Science & Human Behavior  
 Samhouri, Fuad: Oral Panel - Engineering Technologies: Object Manipulations; Pattern Analyses  
 Sanchez, Maeli: Poster PJ - Nature, Life, and Environment  
 Sanghavi, Manan: Poster PE - Science & Technology  
 Santiago, Halle-Mari: Poster PJ - Nature, Life, and Environment  
 Satani, Isha: Oral Panel - Design Thinking: Developing Innovative Tools and Techniques in Health Literacy; Compliant Mechanisms; and Robotic Motion Planning  
 Satish, Sanjana: Poster PO - Cells & Molecules  
 Saucedo, Aaron: Parkland Honors Program  
 Schaefer, Jenna: Poster PJ - Nature, Life, and Environment; National & International Scholarships  
 Schellin, Anna: Poster PR - Science & Technology  
 Scherschel, Elizabeth: Poster PG - Learning & Development  
 Schoenecker, Kristine: Oral Panel - Plants and Animals  
 Schramer, Emilie: Poster PC - Health & Wellness  
 Schroeder, David: Parkland Honors Program  
 Sebastian, Evan: Poster PM - Health & Wellness  
 Seth, Aarav: Poster PR - Science & Technology  
 Shaffer, Alex: Oral Panel - Virtual Realities  
 Shah, Arnab: Oral Panel - Virtual Realities  
 Shah, Ved: Poster PR - Science & Technology  
 Shah, Krupa: Humanities Research Lab Showcase  
 Shamsi, Megan: Poster PA - Cells & Molecules  
 Shane, Sheena: Parkland Honors Program  
 Sharma, Anisha: ISUR Program Research Expo; Poster PE - Science & Technology  
 Sharma, Garima: Poster PF - Social Science & Human Behavior  
 Shelton, Savannah: Poster PN - Nature, Life & Environment  
 Shen, Hamson: Poster PJ - Nature, Life, and Environment  
 Shen, Yiyang: Poster PO - Cells & Molecules  
 Shepherd, Daniel: Oral Panel - Storytelling: Novel Approaches  
 Shields, Jaime: Poster PD - Social Science & Behavior  
 Shim, James: Poster PF - Social Science & Human Behavior  
 Shirkevich, Sonja: Poster PD - Social Science & Behavior  
 Shou, Fangyi: Poster PK - Science & Technology

Shou, Mag: Communication Undergraduate Research Event  
 Shrestha, Royal: Poster PA - Cells & Molecules; Certificate Awardees  
 Shu, Emma: Poster PR - Science & Technology  
 Shukla, Srijan: Poster PD - Social Science & Behavior  
 Shwatal, Austin: Poster PQ - Data, Information & Machine Learning  
 Siek, Victoria: Poster PF - Social Science & Human Behavior  
 Sikander, Qasim: Cancer Center Research Symposium  
 Simon, Alexandra: Certificate Awardees  
 Singh, Ananya: Oral Panel - Health and Wellness  
 Singh, Jessica: Poster PP - Language, Culture & Society  
 Singh, Mohit: Poster PQ - Data, Information & Machine Learning  
 Sinjaradze, Natalie: Poster PC - Health & Wellness  
 Sivakumar, Rishi: Oral Panel - Numbers and Computation  
 Skocinski, Jessica: Poster PK - Science & Technology  
 Smart, Tyler: Poster PR - Science & Technology  
 Smith, Jordan: Poster PG - Learning & Development  
 Smith, Abby: Poster PJ - Nature, Life, and Environment  
 Smith, Evan: Poster PN - Nature, Life & Environment  
 Smith, Trinity: Poster PP - Language, Culture & Society  
 Smith, Jazmine: Parkland Honors Program  
 Smykalov, Valerie: Celebrating Our Student Scholars  
 Snipe, Brandon: Poster PM - Health & Wellness  
 Sornson, Annika: Celebrating Our Student Scholars  
 Southey, Nicole: Poster PB - Science & Technology; Poster PE - Science & Technology  
 Souza, Paris: Poster PF - Social Science & Human Behavior  
 Sparks, Janae: Poster PN - Nature, Life & Environment  
 Spencer, Rayna: Poster PK - Science & Technology  
 Sreshthaputra, Gunn: Celebrating Our Student Scholars  
 Srivastava, Shivam: Poster PP - Language, Culture & Society  
 Stark, Breven: Poster PN - Nature, Life & Environment  
 Steephen, Ann: Poster PO - Cells & Molecules  
 Steinlein, Amelia: Poster PI - Cells & Molecules  
 Stenger, Pete: Poster PG - Learning & Development  
 Stevenson, Abigail: Poster PA - Cells & Molecules; Celebrating Our Student Scholars  
 Stratton, Alex: Poster PQ - Data, Information & Machine Learning  
 Suarez, Melissa: Poster PC - Health & Wellness  
 Sun, Rachel: Poster PD - Social Science & Behavior  
 Sunderland, Gloria: Poster PD - Social Science & Behavior  
 Swanson, Tyler: Poster PJ - Nature, Life, and Environment; Poster PN - Nature, Life & Environment; Celebrating Our Student Scholars  
 Swanson, Jesse Bradford: Parkland Honors Program  
 Syed, Adam: Oral Panel - Learning Experiences and Human Development  
 Syed, Maha: Oral Panel - Questions of Belonging  
 Szamocki, Madelyn: Oral Panel - Challenging the Status Quo: Athletics and Policy Development  
 Takenaka, Yudai: Poster PL - Food Systems  
 Taksir, Bora: Poster PN - Nature, Life & Environment  
 Tan, Matthew: Poster PE - Science & Technology  
 Tan, Ivilyn: Poster PI - Cells & Molecules  
 Tang, Elizabeth: Poster PO - Cells & Molecules  
 Tariq, Bilquis: Poster PG - Learning & Development  
 Techmanski, Sylvia: Humanities Research Lab Showcase  
 Tegge, William: ISUR Program Research Expo  
 Thatte, Vivek: ISUR Program Research Expo  
 Theurer, Savannah: Poster PB - Science & Technology  
 Thomas, Andrianna: Poster PP - Language, Culture & Society  
 Thomas, Brennen: Cancer Center Research Symposium  
 Thomas, Tyler: Parkland Honors Program  
 Thompson, Kyle: Poster PB - Science & Technology  
 Tibrewal, Anushree: Poster PM - Health & Wellness  
 Tinubu, Samuel: Poster PF - Social Science & Human Behavior  
 Tiwari, Anagha: Poster PQ - Data, Information & Machine Learning  
 Tiwari, Akshata: Poster PQ - Data, Information & Machine Learning  
 Tiwari, Srishti: Certificate Awardees  
 Tiwary, Nalin: Oral Panel - Fostering Inclusive Education Systems

Torres, Giselle: Poster PD - Social Science & Behavior
Tran, Leyna: Poster PG - Learning & Development
Trekas, Alexandra: Poster PF - Social Science & Human Behavior
Triplett, Aaron: Parkland Honors Program
Trivedi, Parth: Poster PC - Health & Wellness
Trivedi, Shiv: Poster PE - Science & Technology
Trivedi, Tanishka: Poster PH - Health & Wellness
Troher, Matthew: Oral Panel - Social Issues and the Human Experience
Trujillo, Christopher: Poster PP - Language, Culture & Society
Tsai, Chun-Chia: Celebrating Our Student Scholars
Tsokolas, Zoe: Poster PM - Health & Wellness
Tsyrlunikov, Anna: Poster PI - Cells & Molecules; Celebrating Our Student Scholars
Turner, Sydney: Communication Undergraduate Research Event; Poster PF - Social Science & Human Behavior
Uche-Ike, Uchechukwu: Oral Panel - Fostering Inclusive Education Systems
Uddin, Hassam: Poster PG - Learning & Development
Umardeen, Zainab: Poster PH - Health & Wellness
Usman, Anne-Farah: Poster PH - Health & Wellness
Valerio, Fatima: Celebrating Our Student Scholars
Valishev, Ivan: Oral Panel - Viruses and Pathogens: Next Generation Therapeutics
Vanisko, Anna: Poster PC - Health & Wellness
Varaniuk, Jenya: Poster PG - Learning & Development
Vargas, Lesli: Poster PP - Language, Culture & Society
Vargas, Sofia: ISUR Program Research Expo
Velazquez, Yoselyn: Poster PP - Language, Culture & Society
Vemuri, Aparajita: Poster PD - Social Science & Behavior
Vicencio, Lauren: Poster PM - Health & Wellness
Vinjamuri, Shreya: Poster PQ - Data, Information & Machine Learning
Vittore, Kayla Marie: Certificate Awardees
Vohra, Sara: Celebrating Our Student Scholars
Vrtikapa, Katarina: Poster PO - Cells & Molecules
Vuyyuri, Nandika: ISUR Program Research Expo
Vyas, Khushali: Poster PJ - Nature, Life, and Environment
Wang, Joy: Communication Undergraduate Research Event; Poster PD - Social Science & Behavior
Wang, Jingtong: Poster PE - Science & Technology
Wang, Ellin: Poster PJ - Nature, Life, and Environment
Wang, Ruibin: Poster PM - Health & Wellness
Wang, Ziyin: Poster PO - Cells & Molecules
Wang, Justin: Poster PQ - Data, Information & Machine Learning
Wang, Haichao: Poster PR - Science & Technology
Ward, Sloane: Oral Panel - Questions of Belonging
Ward, Clay: Certificate Awardees
Wei, Elaine: Cancer Center Research Symposium; Poster PA - Cells & Molecules
Wei, Rachel: ISUR Program Research Expo
Welsh, Madisyn: Certificate Awardees
Weng, Yourong: Cancer Center Research Symposium; Poster PR - Science & Technology
Wenger, Lily: Cancer Center Research Symposium; Poster PA - Cells & Molecules
Westphal, Jordan: Poster PQ - Data, Information & Machine Learning
Westphal, Grace: Certificate Awardees
White, Ethan: ISUR Program Research Expo
Wilcoski, David: Oral Panel - Science & Technology: Developments in Biocompatibility
Wilkerson, Jordan: Poster PP - Language, Culture & Society
Williams, Lilyanna: Poster PP - Language, Culture & Society
Witruk, Zoey: Poster PL - Food Systems
Wojcik, Isabel: Poster PM - Health & Wellness
Wong, Ainslee: Poster PH - Health & Wellness
Wong, Olivia: Poster PI - Cells & Molecules
Wong Yan Ling, Melisande: Poster PR - Science & Technology
Wongkarnta, Donlapun: Poster PQ - Data, Information & Machine Learning
Workman, Claudia: Poster PN - Nature, Life & Environment
Wu, Ryan: Poster PE - Science & Technology
Wu, Shengan: Poster PQ - Data, Information & Machine Learning
Wu, Zonghan: Poster PQ - Data, Information & Machine Learning

Wunderlich, Erin: Poster PJ - Nature, Life, and Environment
Wurdack, Gretel: Poster PJ - Nature, Life, and Environment
Wytmar, Justin: Oral Panel - Identity and Memory
Xiang, Jingyi: Poster PR - Science & Technology
Xiao, Justin: Poster PN - Nature, Life & Environment
Xu, Patrick: Poster PQ - Data, Information & Machine Learning
Yacub, Zubair: Poster PG - Learning & Development
Yagnik, Shalini: Poster PQ - Data, Information & Machine Learning
Yako, Sharbel: Poster PF - Social Science & Human Behavior
Yalavarthi, Sahan: Poster PN - Nature, Life & Environment
Yamato, Kei: Poster PP - Language, Culture & Society
Yammanuru, Ananya: Certificate Awardees
Yan, Leo: Poster PE - Science & Technology
Yan, Hannah: Poster PG - Learning & Development
Yan, Zexuan: Poster PR - Science & Technology
Yang, Sarah: Oral Panel - Engineering Technologies: Object Manipulations; Pattern Analyses; Poster PQ - Data, Information & Machine Learning
Yang, Yuxuan: Oral Panel - Mental Health
Yang, Siyu: Oral Panel - Science & Technology: Developments in Biocompatibility
Yang, Chia: Poster PG - Learning & Development
Yang, Ruozhen: Poster PN - Nature, Life & Environment
Yang, Qi: Poster PQ - Data, Information & Machine Learning
Yang, Wenxiao: Celebrating Our Student Scholars
Yang, Rem: Celebrating Our Student Scholars
Yao, Di: Poster PM - Health & Wellness
Yao, Zhixin: Poster PP - Language, Culture & Society
Ye, Zhiheng: Poster PQ - Data, Information & Machine Learning
Yeazel, Amanda: Certificate Awardees
Yedavalli, Anjali: Poster PP - Language, Culture & Society
Yeoh, Benedict: Poster PO - Cells & Molecules
Yepsen, Will: Oral Panel - Marginalizations
Young, Jayla: Oral Panel - Challenging the Status Quo: Athletics and Policy Development
Yu, Mingyi: Oral Panel - Engineering Technologies: Object Manipulations; Pattern Analyses
Yu, Zeyuan: Oral Panel - Science and Computation: Models and Processes
Yu, Eric: Poster PE - Science & Technology; Celebrating Our Student Scholars
Yu, Patrick: ISUR Program Research Expo
Yuan, Boqin: Poster PD - Social Science & Behavior
Yun, Ashley: Poster PP - Language, Culture & Society
Yurchanka, Dmitry: Poster PH - Health & Wellness
Zaidi, Faisal: Oral Panel - Cellular Dynamics
Zeng, Wenqi: Poster PG - Learning & Development
Zeng, Jinghan: Poster PQ - Data, Information & Machine Learning
Zhai, Yuhui: Poster PK - Science & Technology
Zhang, Jay: Poster PD - Social Science & Behavior
Zhang, Yifan: Poster PF - Social Science & Human Behavior
Zhang, Nancy: Poster PF - Social Science & Human Behavior
Zhang, Andrew: Poster PO - Cells & Molecules
Zhang, Zora: Poster PQ - Data, Information & Machine Learning
Zhang, Weiqi: ISUR Program Research Expo
Zhang, Xiaoye: Certificate Awardees
Zhao, Delu: Poster PP - Language, Culture & Society
Zhao, Ying: Poster PQ - Data, Information & Machine Learning
Zheng, Athena: Poster PB - Science & Technology
Zheng, William: Poster PK - Science & Technology
Zheng, Runlin: ISUR Program Research Expo
Zheng, Gang: Celebrating Our Student Scholars
Zhou, Megan: Poster PA - Cells & Molecules
Zhou, Roy: Poster PE - Science & Technology
Zhu, Minxing: Poster PL - Food Systems
Zilinger, Amber: Poster PN - Nature, Life & Environment
Zimmerman, David: Poster PK - Science & Technology
Zorigt, Michelle: Poster PR - Science & Technology

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