Undergraduate Research Week

APRIL 21-27 2024
Welcome to Undergraduate Research Week 2024 and its signature event, the 17th annual Undergraduate Research Symposium!

This year marks yet again new milestones for URW, with a record number of Symposium presentations (surpassing last year’s 20% rise), new modes of presentation (exhibits and demonstrations) and numbers of campus departments, units and programs participating across URW. This year also marks the first time for student awards support from several of our colleges and research institutes; we are grateful for this support on behalf of our student researchers.

Undergraduate research brings together the research and teaching mission of the University of Illinois. By engaging in the research process, our undergraduates develop both breadth and depth of disciplinary knowledge, deepen their understanding of the scholarly process, hone academic and personal skills that prepare them for their lives beyond graduation, and contribute to the Illinois research enterprise. This would not be possible without the continuing support of our faculty, staff, students, and community partners. The presentations found in our program 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.

I am always thankful for the hard work of 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 Coordinator of Research Programs; Lisa Surber-Cunningham, our Programs Specialist; Dr. Alaina Pincus, our Visiting Special Projects Manager; and our Social Media & Communications undergraduate intern, Melany Romero, a Clinical Psychology major. We have an incredible team, and their commitment to supporting undergraduate research 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

Lisa Surber-Cunningham
Programs Specialist

Alaina Pincus, PhD
Visiting Special Projects Manager

Melany Romero
Social Media & Communications 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
On behalf of the University of Illinois Urbana-Champaign, thank you and congratulations to the student researchers and supportive faculty and staff who make Undergraduate Research Week and Symposium such a success. Thanks also to the Office of Undergraduate Research for making this important opportunity available to our students.

As I think back to my own time as an undergraduate student, the opportunity to engage in research was a pivotal experience and I trust that our student researchers this year have likewise found their experience to be meaningful, challenging, and rewarding. Illinois students are bright and driven. When they are able to learn and discover as partners with our world-class faculty in the research process, our students deepen their curiosity and build their confidence. I extend my gratitude to everyone who makes these opportunities possible.

Undergraduate student researchers are vital for the future of our institution—and our planet! Indeed, their innovations are critical to solving the most vexing of challenges that face society.

We need their bright ideas, their creativity, and, most of all, their curiosity.

I am always energized and inspired when I engage with our student researchers, and I am grateful that they choose Illinois as a place to learn, grow, and dream about what is possible.
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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” workshop. In collaboration with the National and International Scholarships Program, we are also offering a workshop titled “Where Can Research Take You.”

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 Monday, April 22, at 6:00 PM

For workshop location and registration, please visit: 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 23, at 12:00 PM

For workshop location and registration, please visit: go.illinois.edu/OURWorkshops

Where Can Research Take You?

You are invited to hear from the National and International Scholarships Program (NIS) about opportunities to continue your research (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 2, 11:00 AM – 1:30 PM

Register at: go.illinois.edu/WhereCanResearchTakeYouWorkshop

ACES Undergraduate Research Day

College of Agricultural, Consumer and Environmental Sciences
Friday, April 12, 10:00 AM – 1:30 PM
ACES Library, Heritage Room
1101 S Goodwin Ave, Urbana

Undergraduate researchers from the College of ACES will be presenting their posters throughout this time. There will also be presentations by the National and International Scholarships Program, the Office of Undergraduate Research, and local James Scholar alumni. A few oral presentations of research may take place during the noon hour. Everyone is welcome to attend this annual event!

Communication Undergraduate Research Event

Department of Communication
Wednesday, April 17, 5:00 PM – 6:00 PM
Posters will remain on display until April 19, 3:00 PM
Lincoln Hall, Room 3001
702 S Wright St, Urbana

Our accomplished undergraduate students are showcasing their communication research experiences and projects during 2023-2024 academic year at our highly anticipated fourth annual research event. Made possible by the generous sponsorship of the Joe Wenzel Fund, this significant occasion is set to highlight the outstanding achievements
and creative pursuits with their faculty and graduate student mentors in the form of a poster presentation. A reception with in-person presentations will kick-off the event on Wednesday, and posters will remain on display until Friday for asynchronous interaction.

Effects of Sexual Education Experiences and Personality on Sexual Communication Behaviors
Kristen Gates, Senior, Psychology, LAS
(Research Mentor(s): Emily Mendelson, Communication)

The Influence of Politically Relevant Media Evaluations on Cognitive and Affective Outcomes
Chanel Ziegler, Senior, Communication, LAS
(Research Mentor(s): Stewart Coles, Communication)

Mental Health and College Support
Jeremy Carroll, Junior, Communication, LAS
(Research Mentor(s): Ethan Morrow, Communication)

Money for What?: Economic Arguments in Contemporary Reparations Rhetoric
Avery Martin, Junior, Communication, LAS
(Research Mentor(s): Wallace Golding, Communication)

Social Media and Mental Health
Caroline Gu, Junior, Communication, LAS
(Research Mentor(s): Ethan Morrow, Communication)

Black Hair Study
La La Smith, Senior, Communication, LAS
(Research Mentor(s): Déjà Rollins, Communication)

The Intercommunication between Patient/Physician Using Accommodation Theory
William Monroe, Junior, Communication, LAS
Aranya Adams, Junior, Psychology, LAS
(Research Mentor(s): Lisa Guntzviller, Communication & Lindsay Kelpinski, Communication)

Relating Interest and Trust in Emerging Programmable Plant Systems (PPS)
Valerie Villaflor, Senior, History, LAS
Sanat Hegde, Senior, Psychology, LAS
Mag Shou, Senior, Communication, LAS
(Research Mentor(s): Cabral Bigman, Communication & Sarah Benevento, Communication)

MechSE Research Showcase
Department of Mechanical Science and Engineering
Thursday, April 18, 1:30 PM – 4:30 PM
Sidney Lu Mechanical Engineering Building, 1st Floor Hallway (Starbucks Area)
1206 W Green St, Urbana

Students of all levels will present their research through poster presentations in this first annual event. They will display their hard work to the rest of the department in a space geared toward feedback and growth as presenters.

Designing and Building a Dynamic Soft Spring Model under Dynamic Equilibrium for Applications in Soft Robotics
Shreyas Malladi, Freshman, Mechanical Engineering, ENG

Ground State Energy of Hydrogen Using Variational Monte Carlo
Aman Jhurani, Freshman, Engineering Mechanics, ENG

A Novel Biosensor for Quantifying Traction Force and Stiffness in 3D Cell-ECM Tissues
Aja Phan, Junior, Mechanical Engineering, ENG

Radiative Cooling Thread Pulling
Juan Reynoso, Senior, Mechanical Engineering, ENG

Wrinkling-Resistant Dielectric Layers for Stretchable FETs
Grace Smith, Senior, Mechanical Engineering, ENG

Strain Engineering in MoS2 Transistors
Sophia Litauzki, Junior, Mechanical Engineering, ENG

Pulsating Heat Pipes
Venkata Krishna Teja Kolla, Sophomore, Mechanical Engineering, ENG

Wake Steering of Turbines within Wind Farms - Experiments and Theoretical Modeling
Sumayyah Hussain, Senior, Mechanical Engineering, ENG

3D Printing for Sustainability
Rose Menichini, Junior, Mechanical Engineering, ENG

Character Based Head Design
Aidan Toscano, Junior, Mechanical Engineering, ENG

Department of Political Science Honors and Awards Ceremony
Department of Political Science
Saturday, April 20, 11:00 AM – 1:00 PM
Hilton Garden Inn
1501 S Neil St, Champaign

Political science honors students will present poster sessions summarizing their thesis project. This is the culmination of a yearlong process in which students learn to design their research and work with a faculty adviser 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.

NCSA Student Research Conference
National Center for Supercomputing Applications
Tuesday, April 23, 3:00 PM – 6:30 PM
NCSA Building, Main Lobby
1205 W Clark St, Urbana

Students will provide poster and/or oral presentations of their work, followed by a mixed industry/academia panel to answer student questions, then a networking opportunity with dinner provided.
Illinois Scholars Undergraduate Research Program Research Expo
The Grainger College of Engineering
Tuesday, April 23, 3:00 PM – 5:00 PM
Illini Union Rooms A, B, C, and South Lounge
1401 W Green St, Urbana

The Grainger College of Engineering 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, and the Semiconductor Research Corporation Undergraduate Research Program.

This year, we also have presentations from students participating in other undergraduate research programs in Grainger Engineering: IBM-IL Discovery Accelerator Institute Undergraduate Research Experience and CS Student Ambassadors/Research Scholars.

Clare Boothe Luce Research Scholars

**Treatment Trains Versus a Single-stage System: Synergies and Tradeoffs of Biochar-enhanced Woodchip Bioreactors Systems for Nutrient Pollutant Control**

Audrey Frost, Sophomore, Agricultural & Biological Engineering, ENG

**Topology Optimization for the Design of Photothermal Microtools**

Mayura Kulkarni, Senior, Electrical Engineering, ENG

**Air Light Guides for the HL-ZDC**

Samantha Lund, Senior, Physics, ENG

**Stair-Step Echelon Structure for Efficient THz Generation**

Spoorthi Nibhanupudi, Senior, Engineering Physics, ENG

**State Anxiety Detection and Monitoring Using Multimodal Wearables Sensors: Wear and RAD-wear Studies**

Roshni Mathew, Sophomore, Computer Engineering, ENG

**Aging and Puberty Blocker Impact on Testicular Cell State and Meiotogenetic Fitness**

Varshini Murugesh, Junior, Bioengineering, ENG

**A Hybrid Plasma – Electrocatalyst Activated Process for the Synthesis of Ammonia from Air and Water**

Nitika Purohit, Junior, Nuclear, Plasma & Radiological Engineering, ENG

**Tracking Chemotaxis as a Function of Epithelial Cell Clustering and Cancer Heterogeneity**

Nicole Southey, Bioengineering, Senior, ENG

Microenvironmental Cues Affect Liver Organoid Formation

Katie Zobus, Sophomore, Bioengineering, ENG

DaRin Butz Foundation Research Scholars

**Mapping Near-Earth Supernovae: Past and Future**

Kayleigh Excell, Senior, Engineering Physics, ENG

**Reducing Communication Energy for Data-Centric Computer Hardware**

Phyllis Wang, Senior, Computer Science, ENG

Semiconductor Research Corporation Undergraduate Research Program

Co-designing Continual-Learning Edge Architectures

Lorenzo Bujalil Silva, Junior, Computer Engineering, ENG

**Electronic Devices Based on Two-Dimensional Materials**

Matilde Figueroa-Carrillo, Junior, Electrical Engineering, ENG

**Strain Engineering in MoS2 Transistors**

Sophia Litauszki, Junior, Mechanical Engineering, ENG

**Discovering and Exploiting New Relations between Data Objects in Computer Programs**

Akash Pardeshi, Senior, Computer Engineering, ENG

**Controlled Layer-by-Layer Thinning of 2D Ferroelectric In2Se3**

Maya Ramavarapu, Sophomore, Mechanical Engineering, ENG

**Mnemonic Similarity Task (MST) Electroencephalography (EEG) Trigger Implementation in PsychoPy**

Navin Ranganathan, Senior, Computer Engineering, ENG

**State Anxiety Detection and Monitoring Using Multimodal Wearables Sensors: Wear and RAD-wear Studies**

Amanda Schultz, Sophomore, Mechanical Engineering, ENG

**Wrinkling-resistant Dielectric Layers for Stretchable FETs**

Grace Smith, Senior, Mechanical Engineering, ENG

**Designing a GaN RF Front-end Circuit Using 140-nm AFRL GaN Technology**

Ethan White, Senior, Electrical Engineering, ENG

**Fabrication of Metal Oxide Semiconductor Capacitors**

Sarah Wilson, Sophomore, Electrical Engineering, ENG
Using Backscatter-based Localization and RFID Tags’ Phase Difference of Arrival to Create a Wearable Device that Tracks the Position of the Human Body
Corey Yin, Junior, Electrical Engineering, ENG

ISUR Scholars

Developing a Method to Measure Battery Cathode Contact Resistances
Alex Ahmari, Junior, Chemical Engineering, LAS

A 3-Dimensional Hydrogel Model to Explore New Drug Treatment Strategies for Glioblastoma
Terence Amador, Junior, Chemical Engineering, LAS

Designing Flow Rate Sensors for Management of Hydrocephalus
Meghan Blomberg, Sophomore, Bioengineering, ENG

Boundary Layer of an Accelerating Wall
Banerian Coggan, Junior, Mechanical Engineering, ENG

Low-Pressure Design of All-Solid-State Li-Ion Batteries with Novel Halide Electrolytes
Daniel Cudzich, Senior, Materials Science & Engineering, ENG

Understanding Sex Differences in GBM Based on the Crosstalk between Microglia and GBM Cells
Ela Eames, Senior, Chemical Engineering, LAS

Natural Language Processing Inspired Approaches to Embedding Microbiomes
Nisha Janamanchi, Junior, Bioengineering, ENG

Formulation Development and Optimization of Pre-formed Insulin Deposits
Andrew Herbst, Sophomore, Bioengineering, ENG

System Design to Support Secure Pinned Memory for Userspace I/O
Neela Kausik, Senior, Computer Engineering, ENG

Fast Transport of Rb Atom Arrays
Healey Kogan, Senior, Engineering Physics, ENG

Development of Quick Connect Mechanisms for a Mobile Assistive Device
Amy Lang, Senior, Mechanical Engineering, ENG

Turning the Molecular Knobs of Plastics: A Study into Controlling PolyDCPD’s Mechanical Properties by Influencing Molecular Topology
Andrew Lum, Junior, Materials Science and Engineering, ENG

Trophoblast Invasion – Using a Tissue Engineering Approach to Light up the Black Box
Sia Mittal, Junior, Chemical and Biomolecular Engineering, LAS

Investigating the Role of Hippocampal Cholinergic Signaling in Working Memory within Virtual Reality Environments
Eric Modesitt, Junior, Computer Science, ENG

Optimizing Methods for 3D-Bioprinting in vitro Hydrogel Models of Endometriosis
Rene Mohammadi, Junior, Mechanical Engineering, ENG

Impact of Hypoxia and Perivascular Niche-derived Conditioned Media on Hematopoietic Stem Cell Fate in Gelatin Hydrogels
Sydney Nelson, Senior, Chemical Engineering, LAS

Validating microRNA Concentrations in Prostate Cancer Cell Lines to Correlate with Prostate Cancer Stage
Trisha Patnaik, Junior, Bioengineering, ENG

In-Situ Referencing for Terahertz Time-Domain Spectroscopy in a Magnetic Field
Dominic Petruzzzi, Senior, Engineering Physics, ENG

A Program Scheduler for Dynamic Use of Analog and Digital Processing-Using-Memory
Rahul Prabhu, Senior, Computer Engineering, ENG

Fabrication of DNA-Templated Nanowires
Samuel Rosner, Sophomore, Physics, ENG

Characterization of Novel Geopolymer Materials for Gamma, Fast Neutron, and Thermal Neutron Radiation Shielding
Markus Tam, Senior, Physics, ENG

Monte Carlo Studies to Prepare for Directed Flow Measurements with the New ATLAS RPD
Aryan Vaidya, Senior, Physics, LAS

IBM-Illinois Discovery Accelerator Institute URE Scholars

Multiplicativity and Bounds of Bipartite Quantum States Geometric Measurement of Entanglement (GME)
Jerry Chang, Junior, Physics & Computer Engineering, ENG

Foundation Models for Generating Faithful Retrosynthetic Pathways and Experimental Procedures
Solana Chiu, Sophomore, Materials Science & Engineering, ENG

Implementing Parallel Methods for Parasol Motion Planning Library
Rodolfo Juarez, Junior, Computer Science, ENG
Jose Martinez, Junior, Computer Science, ENG

SR-IOV Aware & Weighted Round-Robin Scheduler for a SmartNIC
Marissa Lanz, Junior, Computer Engineering, ENG

Equal Velocity Multi-Robot Motion Planning
Luis Moran, Senior, Computer Engineering, ENG

User Interaction in Motion Planning
Ananya Kommalapati, Senior, Computer Engineering, ENG
Metrics and Structure of Two-Qubit POVM State Discrimination
Sean Ramirez, Senior, Computer Engineering, ENG

Testing User Experience for Ray and HAL through a Jupyter Notebook
William Tegge, Senior, Computer Engineering, ENG

Optimization of GPU Communications in Multi-NIC Nodes
Yu Li, Senior, Computer Engineering, ENG

TELEClass: Taxonomy Enrichment and LLM-Enhanced Hierarchical Text Classification with Minimal Supervision
Ruozhen Yang, Senior, Computer Science, ENG
Patrick Xu, Senior, Computer Science, ENG

CS Student Ambassadors/Research Scholars
Pay to Play: Understanding Security and Ethics within the Document Sharing Ecosystem
Mutmaina Adebayo, Senior, CS + Philosophy, LAS

Dialog Flow Induction for Constrainable LLM-Based Chatbots
Stuti Agrawal, Senior, Computer Science, ENG
Nishi Uppuluri, Sophomore, CS + Linguistics, LAS

Exploring Topologies for Interconnect Optimization
Melissa Aninagyei-Bonsu, Sophomore, Computer Science, ENG
Mia Erdenebileg, Senior, Computer Science, ENG

An Analysis of Metagenomics Using k-mer Based Data Structures
Aashvi Busa, Freshman, Computer Science, ENG
Sherry Long, Freshman, Computer Science, ENG

TeamViz: A Tool for Assessing Team Process
Kirsten Erin, Sophomore, CS + Statistics, LAS

Data Science Clicker
Emily Ho, Junior, CS + Geography & Geographic Information Science, LAS
Megan Ja, Senior, CS + Economics, LAS

Effectiveness of Programming Plans in Introductory Programmers
Nicole Hu, Freshman, CS + Economics, LAS

Advancing Robotic Support for Individuals with Cognitive and Physical Disabilities
Joanna Huang, Senior, Computer Science, ENG

Blackbox Project: Detecting Self-Inflicted Bias in Search Queries
Helena Ilie, Freshman, Computer Science, ENG

Identifying Programming Plans: State of the Art, Challenges, and Opportunities
Yoshee Jain, Sophomore, Computer Science, ENG

POINT VR: Developing Graphics for Gravity & General Relativity Simulations in Virtual Reality
Anisha Jog, Junior, Computer Science, ENG

Cloneviz: Visualizing Tumor Clone Trees
Divya Koya, Junior, Computer Science, ENG

Hate Speech in Twitter Timelines
Esther Lee, Junior, Statistics + CS, LAS

Education about Security Risks in Sponsored YouTube Ads
Sailaja Nallacheruvu, Junior, Computer Science, ENG
Thea Surya, Sophomore, Computer Science, ENG

Hierarchical Annotated Skeleton-Guided Tree-based Motion Planning
Keerthana Nallamotu, Junior, Computer Science, ENG

Analysis of Academic Testing Methods and Intrinsic Student Motivation
Kajal Patel, Sophomore, Computer Science, ENG

Converting QueryMethod to use Motion Hypergraph
Nikhila Puppala, Junior, Computer Science, ENG

Comparing Human Generated Text with Machine Generated Text
Garima Sharma, Senior, CS + Advertising, COM

Leveraging LLMs to Learn New Languages
Anushree Tibrewal, Junior, Computer Science, ENG

User Guidance Project: Integrating Robotics with VR
Shreya Vinjamuri, Junior, Computer Science, ENG

A Look into Python Tutor for Helping Students Understand Code
Amy Wang, Sophomore, Computer Science, ENG
Firmiana Wang, Freshman, Computer Science, ENG

Global Crop Type Classification Mapping
Jingtong Wang, Sophomore, Computer Science, ENG

Pseudocode Prompting for Large Language Models
Nancy Wang, Freshman, Mathematics + CS, LAS

Reducing Communication Energy for Data-Centric Computer Hardware
Phyllis Wang, Senior, Computer Science, ENG

On the Structure of Envy-Free Orientations on Graphs
Annie Zeng, Sophomore, Computer Science & Mathematics, ENG

USPS: Universal Predicate Pushdown to Smart Storage
Zora Zhang, Junior, Computer Science, ENG
AHS Undergraduate Research Expo
College of Applied Health Sciences
Wednesday, April 24, 2:00 PM – 3:30 PM
Huff Hall, 1st Floor
1206 S 4th St, Champaign

AHS undergraduate students will be displaying and discussing their research posters with faculty, staff, and students.

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.

Illinois Distributed Museum Tour
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 semesterlong internship after completing archival research about these innovations.

Astronomy Innovations at Illinois - Walking Tour
Wednesday, April 24, 3:00 PM – 4:30 PM
University Archives, Room 146 Main Library
1408 W Gregory Dr, Urbana

Join sophomore history and psychology student, Sophia, for a walking tour she created for the Illinois Distributed Museum. The tour will highlight astronomy-related innovations from the University of Illinois. This is a walking tour that will only have occasional places to sit and will last about an hour and a half.

Register at: go.illinois.edu/AstronomyInnovations

Sophia Mitchell, Sophomore, History, LAS

Cancer Center at Illinois Undergraduate Research Symposium
Cancer Center at Illinois
Thursday, April 25, 3:30 PM – 5:30 PM
Beckman Institute Atrium
405 N Matthews Ave, Urbana

Undergraduate students from CCIL programs or those working with CCIL faculty have created and are presenting posters highlighting the research to which they contributed. Undergraduates who have not yet participated in such experiences are strongly encouraged to attend the symposium to learn directly from their peers about the benefits and ways to get involved in undergraduate research.

Parkland College Honors Program
Parkland College
Thursday, April 25, 11:00 AM – 1:00 PM
Parkland College, Room U-140
2400 W Bradley Ave, Champaign

Parkland College students have participated in Undergraduate Research Week at the University of Illinois at Urbana-Champaign since 2015, under the Ethnography of the University Initiative. This initiative has students use a variety of ethnographic, archival, and related methods to examine their home institutions. 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. For the past two years, the Parkland Honors Symposium has also welcomed the participation of Psi Beta students, the Community College National Honors Society in Psychology.

Where Parkland Students Come From
Bruce Wacker, Parkland College
David Bytnar, Parkland College
Daniel Hogan, Parkland College
Hogyi Xuan, Parkland College

Resources for Resourceful Students at Parkland College
Li Richlin, Parkland College
Sophia Bengston, Parkland College
Saneea Malik, Parkland College

Parkland College: Where Our Paths Converge
Lilie Amador-Rojas, Parkland College
Linus Odenkirk, Parkland College
Alexandria Ward, Parkland College
Yahir Luna, Parkland College

Have You Taken Advantage of the Learning Commons at Parkland College?
Margaret Flanagin, Parkland College
Ha Yeon Kim, Parkland College
Trezorann Moore, Parkland College
Jeremy Partlow, Parkland College

Opportunities for Creativity at Parkland College
Claire Markstahler, Parkland College

Second Language Acquisition at Parkland College
Leyla Klein, Parkland College

Psi Beta Psychology Club, Parkland Honors Projects
Sex-Related Differences and Gender-Related Disparities in ADHD: A New Enviro-Biopsychosocial Model
Hannah Moore, Parkland College

The Necessity of a Holistic and Individualized Approach to ADHD Management for Females
Hannah Moore, Parkland College
LEGO as an Education Tool in Middle Childhood
Adam Skousen, Parkland College

Obsessive-Compulsive Disorder: Myths and Realities
Chloe Byrd, Parkland College

Family Matters in Financial Matters: Developing Healthy Money Mindsets
Austin Layette, Parkland College

2024 Parkland Honors Program Graduates
Chloe Byrd, Parkland College
Joytu Chowdhury, Parkland College
Alianna Mbanda, Parkland College
Hannah Moore, Parkland College
Nicole Powell, Parkland College

TRIO McNair Scholars Program
Office of Minority Student Affairs
Thursday, April 25, 6:00 PM – 8:00 PM
Bruce D. Nesbitt African American Cultural Center, Multipurpose Room
1212 W Nevada St, Urbana

McNair scholars will showcase their undergraduate research projects, followed by a McNair alumni and participant panel discussion. This event is an opportunity to learn more about undergraduate research, graduate school attendance, and the McNair Scholars Program.

Humanities Research Lab Showcase
Humanities Research Institute
Friday, April 26, 12:00 PM – 2:00 PM
Levis Faculty Center, 2nd Floor (Room 210)
919 W Illinois St, Urbana

Students from the Humanities Research Lab Courses, SPAN 232, “Spanish in the Community,” led by Professor Ann Abbott, and HIST 202, “American Environmental History,” led by Professor Robert Morrissey, will present and reflect on the community-engaged research they undertook as part of their course. Humanities Research Labs are a collaboration between the HRI and the Office of Undergraduate Research and offer students an opportunity to participate in community-based research.

Scholarship on Unaccompanied Minors
Maia Clifford, Sophomore, Psychology, LAS

Unaccompanied Mayan Minors - Drivers for Migrating, Integration and Real-Life Stories
Ivon Guzaro Cruz, Freshman, Communication, LAS
Hora Behnejad, Junior, Civil Engineering, ENG
Griffin McDonald, Senior, Finance, BUS

Latina/Latino Studies Senior Symposium
Department of Latina/Latino Studies
Saturday, April 27, 10:00 AM – 2:30 PM
Levis Faculty Center, 3rd Floor (Room 300)
919 W Illinois St, Urbana

Latina/Latino Studies seniors will present their senior paper/honors theses. These presentations are the culmination of a year-long process in which students design and complete a significant research project. The department will also recognize LLS award recipients for the 2024-2025 academic year.

10th Annual Department of Economics Research Symposium
Department of Economics
Tuesday, April 30, 5:30 PM – 7:00 PM

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.

Paintability of Multipartite Graphs
Braden Dean, Senior, Computer Science, ENG
Tianyue Cao, Senior, Mathematics + CS, LAS
Atlas Chen, Junior, Mathematics, LAS
Amit Krishnaiyer, Senior, Mathematics + CS, LAS
Arvind Murty, Senior, Mathematics + CS, LAS
(Research Mentor(s): Peter Bradshaw, Mathematics & Grace McCourt, Mathematics & Ramon Garcia Alvarez, Mathematics)
Quantum Gates for Quantum Noise
Arjun Aggarwal, Senior, Computer Science, ENG
Jihong Cai, Senior, Mathematics, LAS
Ashmit Dutta, Freshman, Computer Engineering, ENG
Divij Garg, Sophomore, Mathematics, LAS
Minghao Shi, Junior, Mathematics + CS, LAS
Stevie Ridens, Senior, Mathematics, LAS
(Research Mentor(s): Marius Junge, Mathematics & Advith Govindarajan, Mathematics & Vincent Villalobos, Mathematics)

Linear Poisson Structures and Their Cohomology
Xianhao An, Senior, Mathematics, LAS
Luke Bielawski, Senior, Mathematics, LAS
Gabe Lewis, Junior, Mathematics, LAS
Uyen Nguyen, Senior, Mathematics, LAS
Dmitriy Shvydkoy, Senior, Mathematics, LAS
Xinyu Wang, Senior, Physics, LAS
(Research Mentor(s): Florian Zeiser, Mathematics & Wonwoo Kang, Mathematics)

Developing Inclusive Outreach Materials
Yuri Chen, Junior, Mathematics, LAS
Chen-Wei Chou, Senior, Mathematics, LAS
Jane Pak, Senior, Mathematics, LAS
Anmol Shah, Sophomore, Computer Engineering, ENG
(Research Mentor(s): Karen Mortensen, Mathematics & Ada Stelzer, Mathematics & Grace McCourt, Mathematics)

Predictability and Competitiveness in Sports Leagues
Yihan Gao, Junior, Engineering Undeclared, ENG
Sam Lam, Junior, Mathematics, LAS
David Xia, Freshman, Computer Science, ENG
(Research Mentor(s): A.J. Hildebrand, Mathematics & Bingyan Liu, Mathematics)

Spatial Models of Evolutionary Dynamics
Jirui Liu, Sophomore, Mathematics, LAS
Seokhwan Moon, Senior, Mathematics, LAS
Ahmad Abdur Rahman, Junior, Mathematics, LAS
Edwin Shen, Sophomore, Mathematics + CS, LAS
Chenning Xu, Sophomore, Mathematics, LAS
Tianyong Yao, Sophomore, Physics, LAS
(Research Mentor(s): Daniel Cooney, Mathematics & Muhammad Raza, Mathematics)

ColorTaiko!
Enson Gai, Senior, Mathematics, LAS
Aditya Kshirsagar, Sophomore, Computer Science + Astronomy, LAS
Kevin Liu, Junior, Mathematics, LAS
Anvitha Manepalli, Junior, Computer Science + Statistics, LAS
Jeongjae Park, Junior, Computer Science + Statistics, LAS
Aditya Ved, Freshman, Mathematics + CS, LAS
(Research Mentor(s): Igor Mineyev, Mathematics & Manisha Garg, Mathematics & Aziz Bouland, Mathematics)

Tennessee Traffic
Weijian Chen, Junior, Mathematics, LAS
Weidai He, Junior, Mathematics, LAS
David Li, Senior, Mathematics, LAS
Neha Valavala, Junior, Mathematics + CS, LAS
(Research Mentor(s): Richard Sowers, Industrial & Enterprise Systems Engineering & Karthik Vasu, Mathematics)

Optimizing Capacities: What Shape Does Best When Adding a Dimension?
Chris Becraft, Senior, Mathematics, LAS
Haoqi Chen, Senior, Mathematics + CS, LAS
Yuan Qian, Engineering Undeclared, ENG
Ben Taylor, Junior, Mathematics + CS, LAS
(Research Mentor(s): Carrie Clark, Mathematics & Richard Laugesen, Mathematics & Qiuling Fan, Mathematics)

Scattering Diagrams and Broken Lines
Matthew Leonardson, Sophomore, Mathematics + CS, LAS
George White, Junior, Mathematics + CS, LAS
Saibo Xu, Senior, Mathematics, LAS
Yiheng Zhou, Junior, Mathematics, LAS
(Research Mentor(s): James Pascaleff, Mathematics & Chengbin Zhu, Mathematics)

Winter Spaces and the Stabilizer Formalism
Morgan Anderson, Senior, Engineering Physics, ENG
Ben Booker, Senior, Mathematics, LAS
Adrian Calinescu, Junior, Computer Science, ENG
Naro Panjaitan, Sophomore, Mathematics, LAS
Dheeran Wiggins, Sophomore, Physics, ENG
Dilys Wu, Senior, Mathematics, LAS
(Research Mentor(s): Roy Araiza, Mathematics & Yefei Zhang, Mathematics)

Psychology Honors Poster Fair
Department of Psychology
Thursday, May 2, 3:00 PM – 5:00 PM
Psychology Atrium, Room 1005
603 E Daniel St, Champaign

Students from the Psychology Honors Program and the Capstone Undergraduate Research Program will present posters describing the research that formed the basis of their bachelor’s thesis. This thesis, which is the culmination of at least two semesters spent working with a faculty advisor on a research project, is submitted to the department for consideration of graduation with distinction.
2024 Undergraduate Research Symposium

April 25, 2024
9:00 AM – 5:00 PM
Illini Union
Posters in Illini Rooms, A, B, C & South Lounge
Oral Presentations on 2nd Floor

Event Map
On Exhibit

Digital Storytelling & Learning
10:45 AM – 12:00 PM, Illini Room B

1. Advancements in Real-Time Captioning for Engineering Education: ScribeAR
Himnish Jain, Junior, Computer Science, ENG
Yifan Zhu, Junior, Mathematics + CS, LAS
(Research Mentor(s): Lawrence Angrave, Computer Science & Colin Luvalu, Physics)

2. Immersive Learning Laboratory Presents: Learning Physics in Virtual Reality
Aidan Wefel, Senior, Physics, ENG
Ayush Garg, Junior, Electrical Engineering, ENG
Alex Shaffer, Junior, Physics, ENG
Alyssa Huang, Junior, Electrical Engineering, ENG
Tasho Madondo, Junior, Computer Engineering, ENG
(Research Mentor(s): Raluca Ilie, Electrical & Computer Engineering)

3. Master Dancer: Creating an Interactive Historical AI Avatar
Ashley Kim, Junior, Information Sciences + Data Science, SIS
Krishna Damania, Sophomore, Information Sciences + Data Science, SIS
Gwendolyn Slaughter, Junior, Information Sciences + Data Science, SIS
Smita Smiti, Sophomore, Information Sciences + Data Science, SIS
(Research Mentor(s): John Toenjes, Dance)

4. The Contemporary American Teenager as Told by Ethel Cain
Emily Redeker, Junior, Psychology, LAS
(Research Mentor(s): Alexia Williams, Religion)

Robots & Medical Technology
3:45 PM – 5:00 PM, Illini Room B

1. Exploring Period Poverty in Sierra Leone
Nour Longi, Junior, Journalism, COM
Stephanie Wayda, Senior, Journalism, COM
Maggie Knutte, Junior, Journalism, COM
Faith Lee, Junior, Journalism, COM
Elena Cleary, Junior, Agricultural Communications, ACES
Piper Pascarella, Sophomore, Journalism, COM
(Research Mentor(s): Alison Davis, Journalism & Charles Stretch Ledford, Journalism)

2. Integrating Voice Control with Electric Hospital Beds for Patients with Amyotrophic Lateral Sclerosis
Jaya Ganapathi, Sophomore, Bioengineering, ENG
Zaahi Hussaini, Sophomore, Mechanical Engineering, ENG
Avni Varshney, Freshman, Bioengineering, ENG
Teddy Dulles, Freshman, Bioengineering, ENG
(Research Mentor(s): Jenny Amos, Bioengineering)

3. Pinto: A Tree-Jumping Robotic Squirrel
Christopher Xu, Junior, Electrical Engineering, ENG
Jack Yan, Senior, Mechanical Engineering, ENG
(Research Mentor(s): Justin Yim, Mechanical Science & Engineering)

4. Soft Robotics Catheter Controlling Excess CSF in Hydrocephalus
Anya Maheshwari, Sophomore, Bioengineering, ENG
Mudit Mehta, Freshman, Electrical Engineering, ENG
Sally Kim, Freshman, Neural Engineering, ENG
Suchir Baradwaj, Sophomore, Bioengineering, ENG
Javier Espinosa De Los Monteros, Junior, Bioengineering, ENG
(Research Mentor(s): Jenny Amos, Bioengineering)

5. Stethopy: A Digital Stethoscope
Eric Wang, Senior, Bioengineering, ENG
Sean Guno, Sophomore, Bioengineering, ENG
Safiya Bhanpuri, Sophomore, Computer Science, ENG
Anila Chundi, Sophomore, Computer Science, ENG
Claire Hershenhouse, Junior, Bioengineering, ENG
(Research Mentor(s): Jenny Amos, Bioengineering)

Oral Presentations

Access in Education: Strategies for Inclusive Spaces Across Disciplines
9:15 AM – 10:15 AM, Room 209

Addressing DEIB in Entry-Level FSHN Courses
Eli Haldes, Sophomore, Psychology, LAS
(Research Mentor(s): Toni Marie Gist, Food Science & Human Nutrition)

Beyond Buildings: Designing and Maintaining Inclusive Classroom Laboratory Spaces for Accessibility
Natalie Taylor, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Holly Golecki, Bioengineering)

Latinos in the Writing Center
Zion Trinidad, Junior, History, LAS
(Research Mentor(s): Carolyn Wisniewski, Center for Writing Studies & Jose de la Garza Valenzuela, Latina/Latino Studies)

Contesting Narratives: Gender, Colonialism, and the Power of Representation
9:15 AM – 10:15 AM, Room 210

Colonialism as Liberal Identity in Charlotte Brontë’s “Villette”
Nic Quero, Senior, English, LAS
(Research Mentor(s): Siobhan Somerville, English and Gender & Women's Studies)

The Political Implications of Queen Isabella’s Sadness in Shakespeare’s "Richard II"
Preston Thompson, Senior, English, LAS
(Research Mentor(s): Siobhan Somerville, English and Gender & Women's Studies)
Cells & Health
9:15 AM – 10:15 AM, Room 211

Antagonistic Activity of Fulvestrant is Restored with the Combination Therapy of Acetyl-CoA Synthetase Inhibitor in Endocrine Therapy-Resistant Metastatic Breast Cancer Cells
David Dutton, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Ayça Mogol, Nutritional Sciences & Zeynep Madak-Erdogan, Food Science & Human Nutrition)

CRISPR Based HIV Diagnostic Assay
Sneha Mittal, Junior, Biochemistry, LAS
(Research Mentor(s): Lucas Akin, Chemistry)

RNA Isolation and Gene Expression of Enterendocrine Cell-Related Genes
Maya Patel, Junior, Food Science & Human Nutrition, ACES
(Research Mentor(s): Hong Chen, Food Science & Human Nutrition & Abory Pramana, Food Science & Human Nutrition)

From Picturebooks to Pandemics: Influences on Development across the Lifespan
9:15 AM – 10:15 AM, Room 213

The Role of Ethnicity in Coping with COVID-19 Related Challenges: Implications for a Training Intervention
Yuxin (Ivy) Chen, Senior, Psychology, LAS
(Research Mentor(s): Florin Dolcos, Psychology & Sanda Dolcos, Psychology & Kelly Marie Hohl, Psychology)

Mutual Responsive Orientation and Executive Function: Mediating Effect of Household Chaos
Ledan Yang, Senior, Psychology, LAS
(Research Mentor(s): Kelly Bost, Human Development & Family Studies & Samantha Iwinski, Human Development & Family Studies)

Parents’ Perceptions of Their Reading Habits in Shared Book Reading
Fong Ling Jessica Gu, Senior, Psychology, LAS
(Research Mentor(s): Jessica Montag, Psychology & Anastasia Stoops, Psychology)

Machine Learning in Action
9:15 AM – 10:15 AM, Room 215

Machine Learning of Electronic Couplings in Doped Organic Semiconductors
Aidan Lindsay, Junior, Chemistry, LAS
(Research Mentor(s): Nick Jackson, Chemistry & Chun-I Wang, Chemistry)

Meta-Learning for Robust Visual Navigation in Agricultural Environments
Thomas Woehrle, Junior, Computer Science, ENG
(Research Mentor(s): Arun Narendiran Sivakumar, Computer Science)

Rigorous, Erudite and Learnable Large Language Model for Personalized Education
Qi Long, Junior, Computer Engineering, ENG
(Research Mentor(s): Volodymyr Kindratenko, National Center for Supercomputing Applications)

The Research Process across Disciplines
9:15 AM – 10:15 AM, Room 217

Linking Allerton Park and the University of Illinois to American Environmental Histories
Devin Manley, Senior, History, LAS
Julie Matuszewski, Senior, History, LAS
(Research Mentor(s): Robert Morrissey, History)

Overcoming Barriers: Recruitment Strategies for Older Latinos in Research
Jahaira Bustos, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Susan Aguiñaga, Kinesiology & Community Health & Diana Morales, Kinesiology & Community Health)

Proposing an Accessible Bottom-Up Method for the Understanding of Qualitative Data in Engineering Design
Connor LaSalle, Senior, Agricultural & Biological Engineering, ENG
(Research Mentor(s): Ann-Perry Witmer, Agricultural & Biological Engineering & Emily Lawson-Bulten, Agricultural & Biological Engineering)

Disease Biology & Dynamics
11:00 AM – 12:00 PM, Room 209

“Is Grandpa’s Flu Safer than Mine?”: Characterizing the Role of NS Evolution in Modulating the Host Immune Response during Influenza Infection
Neeha Kakuturu, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Christopher Brooke, Microbiology & Joel Rivera Cardona, Microbiology)

Modeling a Viral Epidemic with a Concurrent “Misinfodemic”
Dheeran Wiggins, Freshman, Physics, ENG
(Research Mentor(s): Anthony Solomonides, Endeavor Health Research Institute)

From Embodied Narratives to Imagined Futures: Exploring Love, Madness, and Posthuman Utopias
11:00 AM – 12:00 PM, Room 210

Love and Mania: An Arc between Deaths
Avi Pellegrinetti, Sophomore, Dance, FAA
(Research Mentor(s): Betsy Brandt, Dance)

 Monk and Robot: Toward a Posthuman Utopia
Hannah Vondra, Senior, English, LAS
(Research Mentor(s): Lori Humphrey Newcomb, English)
Mobility & Design
11:00 AM – 12:00 PM, Room 211

Design of a Custom Sensing and Actuating Cushion for Use in Pressure Relief in Wheelchair Users
Jason Robinson, Junior, Bioengineering, ENG
Anthony Cruz Macedo, Senior, Electrical Engineering, ENG
Patricia Richards, Freshman, Bioengineering, ENG
(Research Mentor(s): Holly Golecki, Bioengineering)

Examining the Impacts of Sport-Specific Programs on Physical Literacy and Sports-Related Competencies for Adolescents with Physical Disabilities
Martha Szczepanski, Sophomore, Kinesiology, AHS
(Research Mentor(s): Jenna Fesemyer, Recreation, Sport & Tourism)

Navigating the Climate Crisis: Science, Storytelling and Policy
11:00 AM – 12:00 PM, Room 213

Analysis of the Gap in Climate Action Efforts between EU Member States
Sarah Holland, Senior, Global Studies, LAS
(Research Mentor(s): Konstantinos Kourtikakis, Political Science & David Schrag, Global Studies)

Empowering Ecosystem Evaluation: Leveraging Citizen Science and Geospatial Insights
Nora Schnulle, Junior, Agricultural & Biological Engineering, ENG
(Research Mentor(s): Luis Rodriguez, Agricultural & Biological Engineering)

Warning a Warming World: Climate Change Messaging in the 21st Century (and Beyond)
Gabe Lareau, Senior, English, LAS
(Research Mentor(s): Siobhan Somerville, English and Gender & Women’s Studies)

Make Some Noise!: Creating Positive Sentiment for Louder, More Expressive Students
Cesar Espinoza, Sophomore, Middle Grades Education, EDU
(Research Mentor(s): Stephanie Sanders-Smith, Curriculum & Instruction)

Shaping Judgement: How Perceptions Influence Evaluation
11:00 AM – 12:00 PM, Room 217

Candidate Differentiation between Political Parties
Kenneth Dolin, Junior, Political Science, LAS
Lilly Griffith, Junior, Political Science, LAS
(Research Mentor(s): Jeffery Mondak, Political Science & Matt Mettler, Political Science)

Challenging Our Senses
12:30 PM – 1:30 PM, Room 209

Single-Photon Vision: A Quantum Optics Lens on the Human Eye
Aarya Mehta, Sophomore, Physics, ENG
(Research Mentor(s): Paul Kwiat, Physics)

Task Instruction Affecting Visual Salience and Eye Movements
Xiangteng Zhao, Senior, Psychology, LAS
(Research Mentor(s): Alejandro Lleras, Psychology & Simona Buetti, Psychology)

The Nose Knows: The Use Gas Chromatography-Olfactometry to Identify Odor Active Compounds
Charlotte Steuby, Senior, Food Science & Human Nutrition, ACES
Rin Kishimoto, Senior, Food Science & Human Nutrition, ACES
Nick Openbrier, Senior, Food Science & Human Nutrition, ACES
Xiaoyue Shang, Senior, Food Science & Human Nutrition, ACES
(Research Mentor(s): Keith Cadwallader, Food Science & Human Nutrition & Hui-Erh Chai, Food Science & Human Nutrition)

Old Tales, New Forms: Storytelling across Media
12:30 PM – 1:30 PM, Room 210

From Epic to Anime: Tracing the Evolution of the Tale of the Heike through Historical Adaptation
Daniel Bargon, Senior, CS + Linguistics, LAS
(Research Mentor(s): Gian Piero Persiani, East Asian Languages & Cultures)
Shifts in the Development of Fairy Tales in the Transition between Oral and Literate Cultures

John Bergmann, Sophomore, Germanic Studies, LAS
(Research Mentor(s): Laurie Johnson, Germanic Languages & Literature)

The Bunraku Connection

Charlotte Howard-Check, Junior, Theatre, FAA
(Research Mentor(s): Kirsten Pullen, Theatre)

From Individual to Collective: Redefining Narratives of Identity and Belonging
12:30 PM – 1:30 PM, Room 211

Desaparecer: Defining and Expanding towards Travesti Livelihood
Syd Mark, Senior, Sociology, LAS
(Research Mentor(s): Emi Frerichs, English and Gender & Women’s Studies)

Living in the Margins: Exclusion in Inclusive Spaces
Serena Jobi, Junior, Econometrics & Quantitative Economics, LAS
(Research Mentor(s): Joseph Coyle, Anthropology)

Unraveling Neurological Mysteries
12:30 PM – 1:30 PM, Room 213

Evaluating a CRISPR-Mediated Therapy for Alzheimer’s Disease
Tyler Smith, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Thomas Gaj, Bioengineering & Alejandra Zeballos, Bioengineering)

Noncanonical Genomic Imprinting of Tyrosine Hydroxylase (Th) in the Nervous System Affects Social Behaviors
Anne-Farah Usman, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Paul Bonthuis, Comparative Biosciences)

The Impacts of Sex on Gene Pathways of the Hypothalamus
Sreelaya Bhamidi, Senior, Integrative Biology, LAS
(Research Mentor(s): Sandra Rodriguez Zas, Animal Sciences)

Unveiling the Extreme Universe: From Neutron Stars to Black Holes
12:30 PM – 1:30 PM, Room 215

Predictions for Electromagnetic Counterparts to Neutron Star Mergers Discovered during LVK O4 and O5
Ved Shah, Senior, CS + Astronomy, LAS
(Research Mentor(s): Gautham Narayan, Astronomy)

Self-Gravitating Neutron Star-Disks in General Relativity
Eric Yu, Senior, Physics, ENG
(Research Mentor(s): Antonios Tsokaros, Physics)

Using Data for Social Change
12:30 PM – 1:30 PM, Room 217

Comparing and Contrasting Co-Response Models: A Case Study of UIIPD’s REACH Team
Alina Loewenstein, Junior, Psychology, LAS
(Research Mentor(s): Rachel Garthe, Social Work & Madisyn Welsh, Social Work)

Competition and Teacher Compensation within Illinois School Districts
Lucille Owen, Freshman, Learning & Education Studies, EDU
(Research Mentor(s): Paul Bruno, Education Policy, Organization & Leadership)

The Financial Literacy of UIUC Students Taking ACE Courses Compared to the National Financial Literacy of College Students
Kelly Lanham, Senior, Agricultural & Consumer Economics, ACES
(Research Mentor(s): Paul Stoddard, Agricultural & Consumer Economics)

Assistive Technology
2:15 PM – 3:15 PM, Room 209

Assistive Technology for Older Adults with Hearing Disabilities
Archival Analysis and Literature Review
Haseeb Rehman, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Megan Nickrent, Human Factors & Aging Laboratory & Wendy Rogers, Kinesiology & Community Health)

Systematic Review on the Effects of Translation Technologies on Health Literacy in Adults
Emily Butryn, Senior, Interdisciplinary Health Sciences, AHS
Olivia Burns, Junior, Interdisciplinary Health Sciences, AHS
Sarah Hiestand, Junior, Kinesiology, AHS
Blessing Nkezea, Junior, Psychology, LAS
(Research Mentor(s): Sean Mullen, Kinesiology & Community Health)

In Pursuit of Liberation
2:15 PM – 3:15 PM, Room 210

Sentiment and Irony: Rereading Abolition in Illinois Newspapers
Aaron Mukhopadhyay, Junior, English, LAS
(Research Mentor(s): Lori Humphrey Newcomb, English & Ryan Charles Cordell, English)

The Path to Liberation: From Jainism to Secular Contexts
Ankith Desai, Senior, Urban Studies & Planning, FAA
(Research Mentor(s): Anna Tosato, Religion)

The Tension between Christianity and Non-Normative Sexualities in James Baldwin’s Writing
Ashley Basden, Senior, English, LAS
(Research Mentor(s): Siobhan Somerville, English and Gender & Women’s Studies)
Creating Belonging: Cultivating Queer Identities and Spaces
2:15 PM – 3:15 PM, Room 211

A History of UIUC Queer Culture: Primary Sources and Oral History
Matthew Jenkins, Senior, Landscape Architecture, FAA
(Research Mentor(s): Siobhan Somerville, English and Gender & Women’s Studies)

Oral History Presentation
Katrina Phillips, Junior, Gender & Women’s Studies, LAS
(Research Mentor(s): Siobhan Somerville, English and Gender & Women’s Studies)

An Examination of a Local Gender and Sexuality Alliance (GSA): Creating Accessible Resources for Schools
Fynn Levery, Junior, Social Work, SSW
Noah Rawls, Sophomore, Social Work, SSW
(Research Mentor(s): Rachel Garthe, Social Work)

From Pesticides to Pathogens: Understanding the Effects of Stress on Complex Ecologies
2:15 PM – 3:15 PM, Room 213

Exploring Mechanisms Through Which Rhizobia Mediate Drought Tolerance
Destiny Gonzalez, Senior, Biology, LAS
(Research Mentor(s): Meghan Blaszynski, Plant Biology)

Pesticides, Predators, and Parasites: Living in a Multi-Stressor World
Greta Keilman, Senior, Integrative Biology, LAS
(Research Mentor(s): Carla Cáceres, Evolution, Ecology & Behavior & Jeannette Cullum, Program in Ecology, Evolution & Conservation Biology)

Transgenerational Effects of Fungicide and Fungal Pathogen Exposure on Daphnia dentifera
Allison Haab, Senior, Integrative Biology, LAS
(Research Mentor(s): Carla Cáceres, Evolution, Ecology & Behavior & Jeannette Cullum, Program in Ecology, Evolution & Conservation Biology)

Optimizing Animal Production: Nutrition, Management, and Measurement
2:15 PM – 3:15 PM, Room 215

Effects of Botanical Composition on Grazing System Management, Forage Quality, Forage Availability, and Ewe Performance
Emma Prybylski, Senior, Animal Sciences, ACES
(Research Mentor(s): Jennifer Earing, Animal Science, Illinois State University & Joshua McCann, Animal Sciences)

Evaluation of Repeatability of Anogenital Distance Measured with Either a Caliper or Photogrammetry
Andres Olalde, Senior, Animal Sciences, ACES
(Research Mentor(s): Daniel Shike, Animal Sciences & Joshua McCann, Animal Sciences)

Evaluating the Effects of Hind Gut Acidosis in Sheep on Rumen Fermentation Ex Vivo
Emma Prybylski, Senior, Animal Sciences, ACES
(Research Mentor(s): Joshua McCann, Animal Sciences & Haley Linder, Animal Sciences)

Risk and Resilience: Understanding Factors that Influence Our Health
2:15 PM – 3:15 PM, Room 217

Rooted in Empowerment: A Qualitative Exploration of Implementing a Culturally-tailored Community Gardening Program for African American Women Using the Black History Knowledge Model
Samaria Harris, Senior, Kinesiology, AHS
Vanesu Jakachira, Senior, Psychology, LAS
(Research Mentor(s): Susan Aguiñaga, Kinesiology & Community Health & Imani Canton, Kinesiology & Community Health)

Sex and Age of Exposure Have Varied Effects on Consummatory and Motivational Components of Anhedonia Induced by Methamphetamine Withdrawal
Joseph Caruana, Senior, Brain & Cognitive Science, LAS
(Research Mentor(s): Joshua Gulley, Psychology & Conor Strumberger, Psychology)

The Moderating Role of Emotional Competence in the Effect of Need for Approval on Anxiety in Youth
Norah Yao, Senior, Psychology, LAS
(Research Mentor(s): Rebekah Clapham, Psychology & Karen Rudolph, Psychology)

Cellular Processes
4:00 PM – 5:00 PM, Room 209

Biochemical Characterization of Developmentally-Regulated GTPase Rbg2/Gir2 under Influence of K+
Jonathan Ouyang, University High School
(Research Mentor(s): Christopher Hawk, Biochemistry)

Exploring the Mechanisms Responsible for the Mobilization of β-carotene Stores in Tissues
Theodorus Mikhael, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Jaime Amengual Terrasa, Food Science & Human Nutrition & Donald Molina Chaves, Food Science & Human Nutrition)

Stress and Alignment Response to Curved Obstacles in Growing Bacterial Monolayers
Will Fahy, Senior, Engineering Mechanics, ENG
(Research Mentor(s): Gabriel Juarez, Mechanical Science & Engineering & Blake Langeslay, Physics)

Decentering Political Narratives: Local Stories, Global Impacts
4:00 PM – 5:00 PM, Room 210

A Historic Overview of Allerton Park and the Oakley Dam Controversy
Josie Stanton, Freshman, Earth, Society & Environmental Sustainability, LAS
(Research Mentor(s): Robert Morrissey, History)
Disreputable Bedfellows: Image Cultivation, Ideology, and UNITA’s Foreign Support
William Doty, Junior, History, LAS
(Research Mentor(s): Anna Whittington, History)

From Mosul to Montreux: Anglo-Turkish Relations and the Withdrawal of Empire
Anthony Erkan, Junior, History, LAS
(Research Mentor(s): Anna Whittington, History & Stefan Djordjevic, History)

Harnessing Technology for Animal Welfare and Sustainability
4:00 PM – 5:00 PM, Room 211

Deep Learning Approach to Analyzing Cattle Gait as a Potential Indicator of Lameness
Esmeralda Lopez Hernandez, Senior, Animal Sciences, ACES
(Research Mentor(s): Isabella Condotta, Animal Sciences & Luana Benicio, Animal Sciences)

Development and Analysis of Deep Learning Based Individual Identification for Swine
Noel Dunning, Junior, CS + Animal Sciences, ACES
(Research Mentor(s): Isabella Condotta, Animal Sciences)

Predictive Behavior Identification of Grazing Cattle: An Essential of Future Farming
Eva Chang, Senior, Actuarial Science, LAS
(Research Mentor(s): Isabella Condotta, Animal Sciences & Italo Lima, Animal Sciences)

New Approaches in Mathematics
4:00 PM – 5:00 PM, Room 213

AbductiveTP: Divide-and-conquer Planning in Theorem Proving as an Abductive Reasoning Gymnasium
Zory Zhang, Junior, Mathematics + CS, LAS
(Research Mentor(s): Jiaxuan You, Computer Science)

Approximating Eigenvalues of Linear Operators Using the Evans Function
George Bayliess, Freshman, Physics, ENG
(Research Mentor(s): Jared Bronski, Mathematics)

How Learning Influences Community Output
Chenning Xu, Freshman, Mathematics, LAS
(Research Mentor(s): Daniel Cooney, Mathematics)

Technology in Healthcare
4:00 PM – 5:00 PM, Room 215

Grasp the Future
Owen Harry, Junior, Industrial Design, FAA
Shuoning Shi, Junior, Industrial Design, FAA
Matt Ying, Junior, Industrial Design, FAA
Ethan Zhou, Senior, Electrical Engineering, ENG
(Research Mentor(s): Carlos Araujo de Aguiar, Industrial Design)

Topography Optimization for the Design of Photothermal Microtools
Mayura Kulkarni, Senior, Electrical Engineering, ENG
(Research Mentor(s): Holly Golecki, Bioengineering & Thomas Golecki, Mechanical Science & Engineering)

The Learning Ecosystem: Exploring Language, Education, and Family Dynamics
4:00 PM – 5:00 PM, Room 217

Dynamic Referential Processing: Verb Meaning Shapes the Use of Situation Models
Damian Ishak, Senior, Psychology, LAS
(Research Mentor(s): Cynthia Fisher, Psychology & Yukun Yu, Psychology)

Enhancing Automated Grading in Computer Science: Strategies for Prairielearn Problem Construction
Uchechukwu Uche-Ike, Senior, Computer Science, ENG
(Research Mentor(s): Lawrence Angrave, Computer Science)

The Effect of Siblings on Language Input in the Home Book Reading Environment
Taniya Boone, Senior, Psychology, LAS
(Research Mentor(s): Jessica Montag, Psychology)
PA – Humanities, Arts & Social Sciences
9:00 AM – 10:15 AM, Illini Room A

1. Analysis on the Feasibility of Chasqui Journeys as Described by Colonial Accounts
   Robert Houston, Freshman, Biology, LAS
   (Research Mentor(s): Kasia Szremski, Center for Latin American & Caribbean Studies)

3. Benefits of Art Education in Elementary School
   Franceska Twigg, Senior, Art Education, FAA
   Sophie Morgan, Junior, Art Education, FAA
   Kristina Huang, Junior, Art Education, FAA
   Ryan Green, Senior, Art Education, FAA
   (Research Mentor(s): Jennifer Bergmark, Art & Design)

5. Bullying in Central Illinois: A Mix of Rural and Urban
   Emily Dailey, Junior, Social Work, SSW
   (Research Mentor(s): Rachel Garthe, Social Work)

7. Compare and Contrast: How Tutors Employ Discursive Strategies to Professional and Academic Writing over the Course of a Consultation
   Emma Ortega, Junior, English, LAS
   Virginia Wright, Junior, English, LAS
   (Research Mentor(s): Carolyn Wisniewski, Center for Writing Studies)

9. Comparing Singers’ Perceptions of Real and VR Performance Venues
   Asritha Tunuguntla, Sophomore, Speech & Hearing Science, AHS
   (Research Mentor(s): Pasquale Bottalico, Speech & Hearing Science)

10. Does Forced-Choice Measurement Function Equivalently Across Race and Gender?
    Ziqi Wang, Senior, Psychology, LAS
    (Research Mentor(s): Bo Zhang, Psychology)

11. Embracing Ambiguity in Low Concept Film Marketing
    Molly Pfeifer, Senior, Psychology, LAS
    (Research Mentor(s): Jenny Oyallon-Koloski, Media & Cinema Studies)

13. Investigating the Null Subjects in Indonesian Passive and Object Voice
    Audra Aurora Izzani, Freshman, Computer Science, ENG
    (Research Mentor(s): Katie VanDyne, Spanish & Portuguese)

15. No Laughing Matter: Late Night Jokes about Terrorism
    Benjamin Pekay, Senior, Political Science, LAS
    (Research Mentor(s): Scott Althaus, Political Science)

17. Social Emotional Learning in Art Education at the Elementary Level
    Ani Plambeck, Junior, Art Education, FAA
    Kristin Diaz, Senior, Art Education, FAA
    (Research Mentor(s): Jennifer Bergmark, Art & Design)

19. Echoes of Volatility: The Impact of Coup Attempts on Foreign Aid
    Vedika Shah, Freshman, Global Studies, LAS
    (Research Mentor(s): Do Young Gong, Political Science)

20. The Mathematical Models of Altgeld Hall
    Emily Gutknecht, Senior, History, LAS
    (Research Mentor(s): Karen Mortensen, Mathematics)

21. Understanding the Narratives surrounding Guaranteed Income
    Ilakkia Ranjani, Junior, Econometrics & Quantitative Economics, LAS
    (Research Mentor(s): Christopher Larrison, Social Work & Chelsea Birchmier, Psychology)

22. Code-Switching and Null Subject Use in Korean-English Bilinguals
    Hyeongseok Lee, Freshman, Statistics, LAS
    (Research Mentor(s): Katie VanDyne, Spanish & Portuguese)

23. What You Can and Cannot Do: Deletions and Mergers of Grammatical Gender in Kannada
    Sid Bhushan, Senior, Computer Science & Linguistics, LAS
    (Research Mentor(s): Joshua Dees, Linguistics)

PB – Science & Technology
9:00 AM – 10:15 AM, Illini Room A

    Matthew Lee, Senior, Mechanical Engineering, ENG
    (Research Mentor(s): Griffin Sipes, Mechanical Engineering & Mariana Kersh, Mechanical Engineering)

26. A New Monomer for Frontal Ring-Opening Metathesis Polymerization (FROMP)
    Parmeet Kaur, Senior, Chemistry, LAS
    (Research Mentor(s): Jacob Lessard, Chemistry & Jeffrey Moore, Chemistry)

27. Activity-Based Nitric Oxide-Responsive Porphyrin for Site-Selective and Nascent Cancer Ablation
    Ben Shapiro, Junior, Biochemistry, LAS
    (Research Mentor(s): Suritra Bandyopadhyay, Chemistry)

28. Cataloging Volcanic Structures on the Surface of Venus Using Machine Learning
    Dominik Rzeszutek, Senior, Geology, LAS
    (Research Mentor(s): Trish Gregg, Earth Sciences & Environmental Change & Matthew Head, Earth Sciences & Environmental Change)

29. Characteristics of Micro-Jet Diffusion Flames
    Due Nguyen, Freshman, Electrical Engineering, ENG
    (Research Mentor(s): Gautham Krishnan, Mechanical Science & Engineering)

30. Comparative Efficacy of Note-taking and Drawing Strategies on Learning Outcomes in Undergraduate Chemistry Education
    Christopher George, Junior, Bioengineering, ENG
    (Research Mentor(s): Kunzhi Chen, Educational Psychology & Jennifer Cromley, Educational Psychology)
31. Low-Pressure Design of All-Solid-State Li-Ion Batteries with Novel Halide Electrolytes
Daniel Cudzich, Senior, Materials Science & Engineering, ENG
(Research Mentor(s): Carlos Juarez-Yescas, Chemistry & Paul Braun, Materials Science & Engineering)

32. Enhancing Head-Fixed Mouse Behavioral Training: Investigating Sucrose Water Motivation and Its Impact on Auditory Processing
Kush Nandani, Sophomore, Molecular & Cellular Biology, LAS
(Research Mentor(s): Daniel Llano, Molecular & Integrative Physiology & Gang Liao, Molecular & Integrative Physiology)

33. High-Throughput Bottlebrush Block Copolymer Synthesis for Accessing 3D Photonic Structures
Laszlo Dobra, Freshman, Chemical Engineering, LAS
(Research Mentor(s): Yash Laxman Kamble, Chemical & Biomolecular Engineering & Damien Guironnet, Chemical & Biomolecular Engineering)

34. Investigating Starlink Interference in SPIDER’s Field of View for CMB Observation
Suvinay Goyal, Sophomore, Astrophysics, LAS
(Research Mentor(s): Jeffrey Filippini, Physics)

35. Linear Poisson Structure and Their Cohomology
Luke Bielawski, Freshman, Mathematics, LAS
Dmitriy Shvydkoy, Sophomore, Mathematics, LAS
Gabe Lewis, Junior, Mathematics, LAS
Uyen Nguyen, Senior, Mathematics, LAS
Xianhao An, Senior, Mathematics, LAS
Yanzhihong Hu, Junior, Mathematics, LAS
(Research Mentor(s): Florian Zeiser, Mathematics & Woongwoo Kang, Mathematics)

36. Metabolomic Separation and Quantification via CE-NanoESI-MS
Yash Nelavelli, Sophomore, Biochemistry, LAS
(Research Mentor(s): Jonathan Sweedler, Chemistry & Shuangshuang Chen, Chemistry)

37. Optimizing Aluminum Resonators with Thermally Annealed C-plane Sapphire Substrates
Harshvardhan Mantry, Senior, Physics, ENG
(Research Mentor(s): Wolfgang Pfaff, Physics)

38. Predicting Sound Source Location Using In Vivo Neural Population Data
Siyuan Wu, Senior, Bioengineering, ENG
(Research Mentor(s): Howard Gritton, Comparative Biosciences & Oliver Qu, Bioengineering)

39. Shadows Don’t Lie and Lines Can’t Bend! Generative Models Don’t Know Projective Geometry...for Now
Amitabh Mahapatra, Junior, Computer Science, ENG
(Research Mentor(s): David Forsyth, Computer Science)

40. Speech Intelligibility with Airpods Pro
Tess Giddens-White, Freshman, Speech & Hearing Science, AHS
(Research Mentor(s): Yoonjee Sim, Speech & Hearing Science & Pasquale Bottalico, Speech & Hearing Science)

41. Turning the Molecular Knobs of Plastics: A Study into Controlling PolyDCPD’s Mechanical Properties by Influencing Molecular Topology
Andrew Lum, Junior, Materials Engineering, ENG
(Research Mentor(s): Edgar Mejia, Materials Science & Engineering)

42. Understanding the Kinetics of Deconstructable pDCPD-co-DHF Resins through Frontal Polymerization
David Gora, Junior, Engineering Technology & Management for Agricultural Systems, ACES
(Research Mentor(s): Saurabh Bagare, Aerospace Engineering)

43. Understanding the Lexicalization of Emotion in Poetry with Supervised Language Learning Models
Eesha Barua, Senior, CS + Linguistics, LAS
(Research Mentor(s): Jonathan Dunn, Linguistics)

44. Understanding the Vascularization Timeline for an Improved Craniofacial Injury Model
Huamin Gao, Junior, Chemical Engineering, LAS
(Research Mentor(s): Brendan Harley, Chemical & Biomolecular Engineering & Grace Rubino, Chemical & Biomolecular Engineering)

45. Unified Measurement of Virtual Reality Immersion for Older Adults
Noah Olivero, Junior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): George Mois, Human Factors & Aging Lab)

46. URAP Project
Ruixin Li, Junior, Mathematics, LAS
(Research Mentor(s): Akshat Tripathi, Astronomy)

47. Enabling High-Performance Fault Tolerant Communication Protocols in Safety-critical Computer Networks
Simon Xia, Sophomore, Computer Engineering, ENG
(Research Mentor(s): Ashish Kashinath, Computer Science)

48. Evaluation of LLMs and Other ML Methods to Analyze Qualitative Survey Responses
Meghana Gopannagari, Sophomore, Computer Science, ENG
(Research Mentor(s): Hongye Liu, Computer Science)

PC – Health & Wellness
9:00 AM - 10:15 AM, Illini Room C

50. A Fall Prevention mHealth Application for Full-Time Wheelchair and Scooter Users: Focus Group with End-Users
MaryAnne Nguyen, Junior, Chemistry, LAS
(Research Mentor(s): Laura Rice, Kinesiology & Community Health & Sahel Moein, Kinesiology & Community Health)

Katie Hopkins, Junior, Interdisciplinary Health Sciences, AHS
Norman Hernandez, Senior, Kinesiology, AHS
Maya Ordaz, Junior, Community Health, AHS
(Research Mentor(s): Andiara Shwingel, Kinesiology & Community Health & Sadia Anjum Ashrafi, Kinesiology & Community Health)
52. CARDIAI: Cardiovascular Assessment and Real-Time Diagnosis Using Artificial Intelligence
Kieran Thomas, Junior, Biochemistry, LAS
Christopher George, Junior, Bioengineering, ENG
Rishi Atreya, Sophomore, Bioengineering, ENG
Govind Balakrishnan, Sophomore, Bioengineering, ENG
Charvi Kasaboina, Sophomore, Brain & Cognitive Science, LAS
Polina Ivanova, Sophomore, Neuroscience, LAS
Michael Pantonja, Sophomore, Molecular & Cellular Biology, LAS
Brendan Flahive, Junior, Biochemistry LAS
Navi Singh, Freshman, Neuroscience, LAS
Bilal Karim, Junior, Neuroscience, LAS
Riya Kapoor, Freshman, Political Science, LAS
Alan Mathew, Freshman, Molecular & Cellular Biology, LAS
Maya Achettu, Freshman, Molecular & Cellular Biology, LAS
Krisha Agarwal, Sophomore, Molecular & Cellular Biology, LAS
Roop Rehal, Sophomorea, Molecular & Cellular Biology, LAS
Sruja Konada, Sophomore, Kinesiology & Community Health, AHS
Anna Zlatic, Sophomore, Undeclared, DGS

53. Advantages and Limitations of Dietary Assessment Methods
Karen Gutierrez, Senior, Food Science & Human Nutrition, ACES
(Research Mentor(s): Hannah Holscher, Nutritional Sciences & David Alvarado, Nutritional Sciences)

54. An Examination of Differences in Anxiety and Depression Levels across Primary Modes of Physical Activity
Farbeen Ahmed, Junior, Kinesiology, AHS
(Research Mentor(s): Steven Petruzzello, Kinesiology & Community Health & Jonathan North, Kinesiology & Community Health)

55. Anxiety Status and Dietary Patterns among College Students: A Pilot Study
Samantha Golemba, Junior, Dietetics & Nutrition, ACES
Anna Zlatic, Sophomore, Dietetics & Nutrition, ACES
Nicoletta Spiliopoulos, Sophomore, Undeclared, DGS
Avery Andersen, Junior, Dietetics & Nutrition, ACES
(Research Mentor(s): Elizabeth Brandley, Nutritional Sciences)

56. Associations between Environmental Health Literacy and Indoor PM Exposures among Families Living in Champaign-Urban
Brianna Sirdich, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Sheena Martenies, Kinesiology & Community Health & Alice Achieng Oloo, Kinesiology & Community Health)

57. Associations between Healthy Eating Index and Adiposity among Children Living in Champaign-Urban
Maria Myers, Junior, Chemistry, LAS
(Research Mentor(s): Sheena Martenies, Kinesiology & Community Health)

58. Challenges and Solutions in Engaging in Entertainment Events for Late-Deafened Older Adults: An Archival Analysis
Maya Dye, Senior, Speech & Hearing Science, AHS
(Research Mentor(s): Erin Hemiff, Speech & Hearing Science & Wendy Rogers, Kinesiology & Community Health)

59. Comparison between Craving Level and Adherence to Strategies among Age Groups in Participants Enrolled in Weight Loss Program
Bennett Duggan, Junior, Dietetics & Nutrition, ACES
Angelika Brzoziewski, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Nouf Alfozuan, Food Science & Human Nutrition)

60. Depression Status and Dietary Patterns among College Students: A Pilot Study
Annamarie Zlatic, Sophomore, Dietetics & Nutrition, ACES
Nicoletta Spiliopoulos, Sophomore, Undeclared, DGS
Samantha Golemba, Junior, Dietetics & Nutrition, ACES
Avery Andersen, Junior, Dietetics & Nutrition, ACES
(Research Mentor(s): Elizabeth Brandley, Nutritional Sciences)

61. Exploring the Impact of Diversity, Equity, and Inclusion Factors on the Recognition and Value of Contributions of Students in Undergraduate Academic Environments
Angeliki Gargoles, Senior, Integrative Biology, LAS
Nayana Madhav, Sophomore, Molecular & Cellular Biology, LAS
(Research Mentor(s): Toni Marie Gist, Food Science & Human Nutrition)

62. Don’t Throw it Out Yet: Assessing the Viability of Past Shelf-life University of the Pennsylvania Smell Identification Test (UPSIT)
Lauren Crowe, Senior, Food Science & Human Nutrition, ACES
(Research Mentor(s): Jessica Nicanor-Carreón, Nutritional Sciences & Yanina Pepino, Food Science & Human Nutrition)

63. Effects of Black Soldier Fly Larvae on the Fecal Characteristics and Metabolites of Healthy Adult Cats
Kendall Crackel, Junior, Animal Sciences, ACES
(Research Mentor(s): Kelly Swanson, Animal Sciences & Patricia Massae Oha, Animal Sciences)

64. Emotional Perceptions: Comparing and Contrasting Misophonia and Hyperacusis
Elenna Claudio-Deutsch, Junior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Fatima Hussain, Speech & Hearing Sciences & Namitha Jain, Speech & Hearing Sciences)

65. Familial COVID-19 Stress and Infant Temperament through the Lens of Socioeconomic Status
Regina Lapitsky, Sophomore, Human Development & Family Studies, ACES
Cate Lepinskas, Freshman, Brain & Cognitive Science, LAS
Lizbeth Ramos, Sophomore, Interdisciplinary Health Sciences, AHS
Abigail Islas, Sophomore, Psychology, LAS
Hellen He, Freshman, Business Undeclared, BUS
Tianshuo Chen, Sophomore, Psychology, LAS
(Research Mentor(s): Nancy McElwain, Human Development & Family Studies)

Amal Rahman, Junior, Community Health, AHS
(Research Mentor(s): Hannah Holscher, Food Science & Human Nutrition & Nadine Veesley, Food Science & Human Nutrition)

67. Fire Readiness in Wheelchair and Scooter Users (FEW)
Grace Nguyen, Junior, Kinesiology, AHS
(Research Mentor(s): Laura Rice, Kinesiology & Community Health & Ziwei Li, Kinesiology & Community Health)

68. How Fiber from Avocados Affects Individuals Gastrointestinal Health
Allanah Martin, Junior, Nutrition & Health, ACES
(Research Mentor(s): Maggie Oleksiak, Food Science & Human Nutrition & Hannah Holscher, Food Science & Human Nutrition)
Victoria Ferrara, Junior, Social Work, SSW
Ainslee Wong, Senior, Psychology, LAS
(Research Mentor(s): Tuyet-Mai Ha Hoang, Social Work)

70. Interrupting Sitting with Moderate-to-Vigorous Physical Activity Improves Inhibitory Control in Adults with Overweight and Obesity
Neha Bashir, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Dominka Pindus, Kinesiology & Community Health)

71. Interrupting Sitting with Physical Activity Bouts Does Not Affect Working Memory or Postprandial Glycemic Response in Overweight and Obese Adults
Lauryn Pickerill, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Dominika Pindus, Kinesiology & Community Health)

72. Investigating the Role of Cochlear Synaptopathy in Hidden Hearing Loss
Sarika Kumar, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Benjamin Auerbach, Molecular & Integrative Physiology & Noelle James, Molecular & Integrative Physiology)

73. Literature Review on Impacts of Covid-19 Related Fear and Anxiety on Healthcare Workers' Substance Use
Savannah Guzman, Sophomore, Community Health, AHS
(Research Mentor(s): Rachel Hoopsick, Kinesiology & Community Health)

74. Metabolic and Microbial Effect of Walnut Consumption in Adults with Obesity: A Complete Feeding Intervention
Julie Mathews, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Hannah Holscher, Food Science & Human Nutrition & Marahi Pérez-Tamayo, Nutritional Sciences)

75. Quality Assessment and Preliminary Review in a Systematic Literature Review Examining the Role of Health in Nutrition Interventions for Cardiovascular Disease
Bryonie Mandal, Senior, Interdisciplinary Health Sciences, AHS
Ralitsa Vassileva, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Kristen DiFilippo, Kinesiology & Community Health)

76. The Effect of Arabic Gum on Bitter Taste Perception
Michelle Zhu, Junior, Food Science & Human Nutrition, ACES
(Research Mentor(s): Leah Hall, Nutritional Sciences & Yanina Pepino, Food Science & Human Nutrition)

77. The Effect of Oxidative Stress Sensitivity on BPA Toxicity in Caenorhabditis Elegans
Rachel Miller, Sophomore, Integrative Biology, LAS
Sylvia Gimbel, Sophomore, Mathematics, LAS
(Research Mentor(s): Eva Fischer, Evolution, Ecology & Behavior)

78. The Influence of Sex on Periarticular Scapular Morphology
Greta Pearl, Junior, Kinesiology, AHS
Katie Naveja, Sophomore, Kinesiology, AHS
(Research Mentor(s): Josh Leonardis, Kinesiology & Community Health & Whitney Wolff, Kinesiology & Community Health)

Ayumi Yonezawa, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Dominika Pindus, Kinesiology & Community Health)

80. The Sleep Health of Individuals with Visual Impairments: A Scoping Review
Grace Kim, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Soyoung Choi, Kinesiology & Community Health)

81. Vocal Effort in Dining Halls to Optimize Speech Intelligibility
Kate Harty, Freshman, Speech & Hearing Science, AHS
(Research Mentor(s): Xiyu Li, Speech & Hearing Science & Pasquale Bottalico, Speech & Hearing Science)

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

85. “I'm Just a Bill”: The Impact of Civic Education on Democratic Engagement
Vindhya Kalipi, Senior, Political Science, LAS
(Research Mentor(s): Jeffery Mondak, Political Science)

86. An Analysis of Russia’s National Interests and the OSCE’s Reactions during Russia’s War in Ukraine: A Study of International Relations Theories in Practice
Natalia Crane, Senior, Political Science, LAS
(Research Mentor(s): Robert Pahre, Political Science)

Minseo Cho, Freshman, Finance, BUS
(Research Mentor(s): Abigail Stocker, Economics)

88. Correlations between Workplace Racial/Ethnic Discrimination and Mental Health and Substance Use among US Healthcare Workers of Color
Uwamahoro Sophie, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Rachel Hoopsick, Kinesiology & Community Health)
89. Developing Mindfulness-Based Intervention Based on Experiences of Postpartum Depression and Pain
Anjali Patel, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Sandraluz Lara-Cinisomo, Kinesiology & Community Health)

90. Examination of the Relationship between Substance Use, Recreational Psychedelic Mushroom Use, and Ego-Dissolution among Young Adults
Annis Byram, Junior, Psychology, LAS
(Research Mentor(s): Walter James Venerable III, Psychology)

91. Examining How Family Law Attorneys Screen for Coercive Control in Child Custody Cases: A Thematic Analysis
Lillian Knelt, Senior, Human Development & Family Studies, ACES
(Research Mentor(s): Maya Carter, Human Development & Family Studies & Jen Hardesty, Human Development & Family Studies)

92. Examining the Contagion Effect in Information Diffusion Cascades
Danish Singh Sethi, Sophomore, Computer Science, ENG
Priyanka Jakka, Sophomore, Computer Science, ENG
Audric Serador, Freshman, Computer Science, ENG
(Research Mentor(s): Maggie Zhang, Computer Science)

93. Exploratory Analysis of Forgoing Trips from the 2022 National Household Travel Survey
Jeremy Septon, Sophomore, Economics, LAS
(Research Mentor(s): Amanda Merck, Urban & Regional Planning)

94. Growth Emotion Mindset Interventions Buffer Against Anxiety and Depression for Girls in Negative Family Contexts
Mateen Rosenblum, Senior, Psychology, LAS
(Research Mentor(s): Erin Wood, Psychology & Karen Rudolph, Psychology)

95. Identities at Work in Opioid Management Conversations between Internal Medicine Residents and Standardized Patients
Sarah Blyskal, Sophomore, Community Health, AHS
(Research Mentor(s): Sara Babu, Communication & Lisa Guntzviller, Communication)

96. What Shapes Public Attitudes towards Immigration? The Role of Perceived Threat and Personality
Jaelyn Hudson, Sophomore, Psychology, LAS
(Research Mentor(s): Rebeca Agosto Rosa, Political Science)

97. Implications of Performance on Heart Rate Variability: Exploring Differences between Clinical and Non-Clinical Groups
Meher Swamy, Sophomore, Neuroscience, LAS
(Research Mentor(s): Maya Marder, Psychology & Haley West, Psychology)

98. Intrinsic Motivation of Women in STEM Learning: A Self-Determination Theory Perspective
Aparajita Vemuri, Senior, Psychology, LAS
(Research Mentor(s): Amos Jeng, Educational Psychology & Michelle Perry, Educational Psychology)

99. Mental Health and College Support
Jeremy Carroll, Junior, Communication, LAS
(Research Mentor(s): Ethan Morrow, Communication)

100. Parental Depressive Symptoms: Associations with Child Negative and Positive Emotionality
Sophia Mei, Junior, Molecular & Cellular Biology, LAS
Chloe Lee, Sophomore, Information Sciences, SIS
Kathy Le, Junior, Psychology, LAS
(Research Mentor(s): Nancy McElwain, Human Development & Family Studies)

101. Prenatal Exposure to Phthalate Mixture (PHT MIX) and Sociosexual Behavior in Mice
Nikhil Kanduri, Senior, Integrative Biology, LAS
(Research Mentor(s): Megan Mahoney, Comparative Biosciences & Jake Maxon, Neuroscience Program)

102. Prior Methamphetamine Exposure Induces Altered Drug Taking Behaviors in Female Rats Exposed during Adolescence Compared to Adults
Nina Hoffman, Senior, Psychology, LAS
(Research Mentor(s): Joshua Gulley, Psychology & Lauren Carrica, Psychology)

103. Psychological Well-Being on Adolescent Loneliness during the COVID-19 Pandemic: Examining Anxiety, Post-Traumatic Stress (PTS), Depression, and Aggression
Roqaya Al-Dhufari, Senior, Integrative Biology, LAS
(Research Mentor(s): Jae Wan Choi, Psychology & Joseph Rich Cohen, Psychology)

104. Resting State EEG and Behavioral Performance on Inhibitory Control in Cognitively Normal Older Adults
Jaya Ashrafi, Junior, Brain & Cognitive Science, LAS
(Research Mentor(s): Raksha Mudar, Speech & Hearing Science)

105. Shareholder Revolution and Transformation of Innovation Strategies in the US
Larry Peng, Senior, CS + Economics, LAS
(Research Mentor(s): Yusaku Takeda, Business Administration)

106. Shifts in Framing and Perceptions of Experience and Agency
Maelys Cadot, Freshman, Psychology, LAS
Charlie Cervenka, Freshman, Psychology, LAS
Matthew Horvat, Junior, Psychology, LAS
Felixandro Gonzalez, Sophomore, Psychology, LAS
Marian Mohamednor, Sophomore, Psychology, LAS
Max Snyder, Freshman, Undeclared, LAS
Soro Ung, Freshman, Psychology, LAS
Reese Murphy, Junior, Psychology, LAS
Isabella Uriarte, Sophomore, Psychology, LAS
(Research Mentor(s): Chadly Stern, Psychology & Yarden Ashur, Psychology)

107. Stance Detection on Historical Newspapers — A Systematic LLM Procedure with a Test Case of “Morrill Tariff”
Yifan He, Senior, Economics, LAS
(Research Mentor(s): Markus Lampe, Vienna University of Economics and Business)
108. Storytelling as a Pedagogic Method to Promote Cultural Humility at a Student-Run Free Clinic  
Ryiah Barnes, Senior, Community Health, AHS  
(Research Mentor(s): Margarita Terán-García, Nutritional Sciences)

109. Testing Speech Intelligibility Using Firefighter’s Two-Way Radios  
Abrahán Chávez, Sophomore, Speech & Hearing Science, AHS  
Shaun Gillespie, Freshman, Speech & Hearing Science, AHS  
Megan Stemm, Junior, Speech & Hearing Science, AHS  
(Research Mentor(s): Mary Flaherty, Speech & Hearing Science & Tania Aguilar, Speech & Hearing Science)

110. The Price of Bullying: The Impact of Peer Victimization on Adolescent Social Goals  
Eleanor Laufenberg, Academy High School  
(Research Mentor(s): Erin Wood, Psychology & Karen Rudolph, Psychology)

111. The Repercussions of Extremist Groups on Intraparty Attitudes  
Daniela Marín, Senior, Political Science, LAS  
(Research Mentor(s): Jacob Bowers, Political Science)

112. Understanding the Content Moderation Habits of Extreme Political Content on TikTok  
Faith Dahman, Senior, Political Science, LAS  
(Research Mentor(s): Aleksander Ksiazkiewicz, Political Science & James Steur, Political Science)

113. Unveiling Politicalleanings in Corporate Dialogue  
Jehyeok Yeon, Sophomore, CS + Linguistics, LAS  
(Research Mentor(s): Yusaku Takeda, Business Administration)

114. Severe Storms – Their Influence on Public Perception and Policy Support  
Deyu Zhang, Senior, Econometrics & Quantitative Economics, LAS  
(Research Mentor(s): Ji Soo Yoo, Political Science)

115. Foreign Political Entertainment’s Political Influence on Domestic Audience  
Xinyue Chen, Junior, Political Science, LAS  
(Research Mentor(s): Shuyuan Shen, Political Science)

PE – Nature, Life & Environment  
10:45 AM - 12:00 PM, Illini Room A

1. A Multitask Convolutional Neural Network Approach to Phenotype Key Miscanthus Traits Using High Spatial Resolution UAV Imagery  
Jonathan Mason, Junior, CS + Crop Sciences, ACES  
(Research Mentor(s): Andrew Leakey, Plant Biology)

2. A Tick-ing Time Bomb: Investigating the Dynamics of Tick-Borne Disease Risk due to Human-Mediated Landscape Change  
Matt Beard, Sophomore, Integrative Biology, LAS  
Andrea Salinas Gallo, Junior, Integrative Biology, LAS  
(Research Mentor(s): Brian Allan, Entomology)

3. An Investigation into the Sensitivity of Automatic Identification Software for Bat Calls to Different Input Species Lists  
Isabella Hubrich, Junior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor(s): Constance Brown, School of Earth, Society & Environment & Joy O’Keefe, Natural Resources & Environmental Sciences)

4. Comparative Analysis of Illinois Furbearer Harvest and Pelt Prices from 2007 to 2021  
Bethany Warner, Junior, Animal Sciences, ACES  
(Research Mentor(s): Craig Miller, Illinois Natural History Survey & Eric Walberg, Illinois Natural History Survey)

5. Examining Neuromast Distribution in Three Species of Neotropical Tadpoles  
Amari Houston, Junior, Integrative Biology, LAS  

6. Fungicide’s Impact on Auxin Production  
Harley Schwarz, Freshman, Natural Resources & Environmental Sciences, ACES  
(Research Mentor(s): Anthony Yannarell, Natural Resources & Environmental Sciences & Noah Brown, Program in Ecology, Evolution & Conservation Biology)

7. Impact of Band Rehearsal Activities on Air Quality in a University Classroom  
Catherine Vittallo, Senior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor(s): Nicole Riemer, Climate, Meteorology & Atmospheric Sciences & Constance Brown, School of Earth, Society & Environment)

8. Implications of Climate Change on Lake-Effect Precipitation around the Great Lakes  
Deilah Smithey, Senior, Atmospheric Sciences, LAS  
(Research Mentor(s): Ryan Sriver, Climate, Meteorology & Atmospheric Sciences)

9. Investigating a Cultural Keystone Species: Comparing Complete Mitochondrial Genomes between Ancient and Current-Day Late and Early Run Sockeye Salmon in the Kenai Peninsula, AK  
Lauren Moy, Senior, Integrative Biology, LAS  
(Research Mentor(s): Alida De Flamingh, Center for Indigenous Science & Ripan Malhi, Center for Indigenous Science)

10. Observations of Life Cycles of Global Mesoscale Convective Systems  
Allyssa Shih, Sophomore, Atmospheric Sciences, LAS  
(Research Mentor(s): Steve Neshitt, Climate, Meteorology & Atmospheric Sciences)

11. Ovipositor to Body Size Scaling Across the Subfamily Euphorinae  
Jessica Nunge, Graduated December 2023, Integrative Biology, LAS  
Joey Czarnik, Junior, Integrative Biology, LAS  
Emmanuel Lu, Senior, Integrative Biology, LAS  
(Research Mentor(s): Abby Weber, Evolution, Ecology & Behavior)
12. Phenotyping Stomatal Patterning from Computer Vision-Annotated Images of a Diverse Sorghum Population
Lydia Keller, Senior, Integrative Biology, LAS
(Research Mentor(s): John Hodge, Center for Advanced Bioenergy and Bioproducts Innovation & Andrew Leakey, Plant Biology)

13. Prenatal Exposure to Imidacloprid Impairs Procedural Memory, Mood, and Regulation of Cognition in Mice
Nirmal Nathan, Junior, Community Health, AHS
(Research Mentor(s): Megan Mahoney, Comparative Biosciences & Colin Lee, Comparative Biosciences)

14. Prenatal Exposure to Imidocloprid Affects Spatial Memory Acquisition, Anxiety-Like, and Depression-Like Behaviors
Ella Gusinde, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Megan Mahoney, Comparative Biosciences)

15. Re-evaluating a Common Conception in Astacology
Dhenu Patel, Freshman, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Caitlin Bloomer, Natural Resources & Environmental Sciences)

16. Soil Food Webs in Organic Grain Systems
Alyson Ficca, Junior, Integrative Biology, LAS
(Research Mentor(s): Nate Schroeder, Crop Sciences & Carmen Ugarte, Natural Resources & Environmental Sciences)

17. Understanding Connections between Stress Hormones and Reproductive Success in Dyeing Poison Frogs
Olivia Marsden, Junior, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Eva Fischer, Evolution, Ecology & Behavior & Sarah Westrick, Evolution, Ecology & Behavior)

18. Unraveling the Genetic Basis of Leukodystrophy in German Shepherds: Population Analysis of PIPOX Mutation
Kira Diaz, Junior, Animal Sciences, ACES
(Research Mentor(s): Anna Kukekova, Animal Sciences)

19. Aesthetic Perceptions of Plant Diversity in Urban Open Spaces
Jun-Ha Kim, Freshman, Graphic Design, FAA
(Research Mentor(s): Chia-Ching Wu, Landscape Architecture)

20. Effects of Co-inoculation with Arbuscular Mycorrhizal Fungi and Fungal Leaf Endophytes on the Growth of Andropogon gerardii
Lauren MacLean, Sophomore, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Ilana Zeitier, Program in Ecology, Evolution & Conservation Biology)

21. Using Imaging and Microscopy Techniques to Understand the Relationship between Leaf Air Space and Stomatal Patterns
Brandon Banchs, Junior, Biology, LAS
(Research Mentor(s): James Fischer, Plant Biology)

22. What’s Up Danger: Testing the Response of Birds to a Variety of Alarm Calls
Aditi Patel, Senior, Community Health, AHS
Roqaya Al-Dhufari, Senior, Integrative Biology, LAS
(Research Mentor(s): Jonah Dominguez, Program in Ecology, Evolution & Conservation & Jinnelle Sperry, Natural Resources & Environmental Sciences)

23. The Duality of Fish: Bluefin Killifish’s Response to a Simulated Clear-Brown Gradient
Adeline Volz, Sophomore, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Becky Fuller, Evolution, Ecology & Behavior & Ratna Karatgi, Evolution, Ecology & Behavior)

PF – Cells & Molecules
10:45 AM – 12:00 PM, Illini Room A

25. A Bacterial Toxin that Influences Gastric Cancer Development and its Interactions with our Gastric Cells
Ivilyn Tan, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Steven Blanke, Microbiology & Megan Ringling, Microbiology)

Nathan Yoon, Senior, Psychology, LAS
(Research Mentor(s): Paul Bonhuis, Comparative Biosciences & Daryl Meling, Comparative Biosciences)

27. AQQSY Peptide from Cowpea β-vignin Exerted an Anticancer Effect on Colon Cancer Cells by Decreasing p-Rb/Rb Ratio and Ki-67 Expression and Activating Caspase-3
Emily Davis, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Elvira de Mejia, Food Science & Human Nutrition)
28. Cysteine and Glycine-Rich Protein 1 (Csrnp1) is Differentially Regulated by Acute and Chronic Exercise to Impact Extracellular Matrix Remodeling 

Samuel Deyhle, Sophomore, Kinesiology, AHS  
(Research Mentor(s): Deigo Hernandez Saavedra, Kinesiology & Community Health & Clay Weidenhamer, Kinesiology & Community Health)

29. Analysis of Plasma-Derived EVs Collected Following Resistance Exercise as a Therapeutic in a Mouse Model of Dianne Atrophy 

Jayna Burger, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Marni Boppart, Kinesiology & Community Health & Alexander Fliflet, Kinesiology & Community Health)

30. Determining the Molecular Profile of a Mouse Model Alzheimer’s Disease through Matrix-Assisted Laser Desorption/Ionization 

Brian Rettig, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Timothy Trinklein, Chemistry & Jonathan Sweedler, Chemistry)

31. Environment-Mediated Organotypic Hydrogels Model Glioblastoma Progression and Therapeutic Response 

Joseph Mueller, Junior, Chemical Engineering, LAS  
Achal Anand, Junior, Chemical & Biomolecular Engineering, LAS  
(Research Mentor(s): Sara Pedron-Haba, Chemical & Biomolecular Engineering)


Elliot Yoon, Sophomore, Kinesiology, AHS  
(Research Mentor(s): Erin O’Leary, Neuroscience Program & Daryl Meling, Comparative Biosciences)

33. Extracellular Lipid Production in Oleaginous Yeasts 

Sai Smriti Gogineni, Freshman, Biology, LAS  
(Research Mentor(s): Sujit Jagtap, Institute for Sustainability, Energy & Environment)

34. Glucocorticoid Dysregulation Leads to More Aggressive Tumor Phenotype in Black Lung Cancer Patients Residing in High-Violence Chicago Neighborhoods 

Vani Sharma, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Zeynep Madak-Erdogan, Food Science & Human Nutrition & Hannah Heath, Food Science & Human Nutrition)

35. How In Vitro Fermentation Models Can Supplement Clinical Studies 

Marco Atallah, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): David Alvarado, Food Science & Human Nutrition & Hannah Holscher, Food Science & Human Nutrition)

36. Investigating Candidate Regulators of Staphylococcus Aureus Superoxide Dismutase Expression 

Tyler Defort, Junior, Integrative Biology, LAS  
(Research Mentor(s): Thomas Kehl-Fie, Microbiology & Riley McFarlane, Microbiology)

37. L-Type Amino Acid Transporter 2 (Slc7a6) Expression in Adipose Tissue Following Acute and Chronic Exercise 

Adam Syed, Sophomore, Community Health, AHS  
(Research Mentor(s): Clay Weidenhamer, Kinesiology & Community Health & Diego Hernandez Saavedra, Kinesiology & Community Health)

38. Peptidomic Workflows for Analysis of Biofluids Utilizing Mass Spectrometry 

Anthony Choi, Senior, Chemistry, LAS  
(Research Mentor(s): Jonathan Sweedler, Chemistry & Shannon Berneche, Neuroscience Program)

39. Role of Astrocyte Transforming Growth Factor Beta Activated Kinase (TAK) in Cytokine-Induced Changes to Novel Object Recognition 

Ziyi Kwok, Senior, Animal Sciences, ACES  
(Research Mentor(s): Andrew Steelman, Animal Sciences & Steven Krauklis, Nutritional Sciences)

40. Role of Mitochondria in the 27HC-Mediated Increase in Extracellular Vesicle Secretion 

Hannah Kim, Senior, Biochemistry, LAS  
(Research Mentor(s): Erik Nelson, Molecular & Integrative Physiology & Anasuya Das Gupta, Molecular & Integrative Physiology)

41. The Effect of Oligodendrocyte TAK1 Conditional Deletion on Peripheral T Cell Responses during Experimental Autoimmune Encephalomyelitis 

Sara Streit, Senior, Animal Sciences, ACES  
(Research Mentor(s): Andrew Steelman, Animal Sciences)

42. The Effects of Hydrolyzed Fish Proteins on Serum Chemistry and Complete Blood Count in Canines 

Kim Detwiler, Senior, Animal Sciences, ACES  
(Research Mentor(s): Natalia Dos Santos Fanelli, Nutritional Sciences & Maria Cattai de Godoy, Animal Sciences)

43. The Role of CCNA_02629 in Regulating Cell Curvature in Caulobacter crescentus 

Leo Kaempfe, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Paola Mera, Microbiology & Ezza Khan, Microbiology)

44. The Role of HDL in the Efflux of Carotenoids from Tissues 

Ismail Ahmed, Senior, Nutrition & Health, ACES  
(Research Mentor(s): Jaume Amengual, Food Science & Human Nutrition & Walter Catalan Monroy, Food Science & Human Nutrition)

45. Total Synthesis of the Main Pharmacologically-Active Metabolite of Cannabinoïd, 11-Hydroxy-cannabinoïd 

Ryan Blake, Senior, Chemistry, LAS  
(Research Mentor(s): David Sarlah, Chemistry & Jonathan Maturano, Chemistry)

46. An Amphiphilic Dendrimer as Potent Antibacterial Against Drug-Resistant Bacteria in Mouse Models of Human Infectious Diseases 

Noah King, Senior, Integrative Biology, LAS  
(Research Mentor(s): Gee Lau, Pathobiology)
47. Transcription Factor Runx-1 Promotes Uterine Angiogenesis by Regulation Of Angiogenic Factors In Human Endometrial Stromal Cells  
Neha Ramachandran, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Milan Bagchi, Molecular & Integrative Physiology & Jacob Beal, Molecular & Integrative Physiology)

48. Analysis of the Catalytic Site of Strictosidine Synthase in Camptotheca Acuminata  
Emily Wang, Senior, Biochemistry, LAS  
(Research Mentor(s): Mary Schuler, Cell & Developmental Biology)

PG – Social Issues & Policy  
10:45 AM – 12:00 PM, Illini Room C

50. An Investigation into the Scientific Re-Biologization of Race and Sex  
Erin Haslett, Senior, Political Science, LAS  
(Research Mentor(s): Samantha Frost, Political Science)

51. Analysis of the Impact of “Sapos” on Colombian Refugees in Ecuador  
Mary Brennan, Freshman, Economics, LAS  
(Research Mentor(s): Alana Akerman, Anthropology)

52. Bleeding Borders: U.S. Intervention and the Rise of Femicide in Mexico  
Mia Macias, Senior, Political Science, LAS  
(Research Mentor(s): Gisela Sin, Political Science)

53. Bridging the Gap: Enhancing Attorney Response to Intimate Partner Violence in Child Custody Cases  
Cassidy Murphy, Senior, Human Development & Family Studies, ACES  
Krista Siler, Junior, Human Development & Family Studies, ACES  
(Research Mentor(s): Matthew Rivas-Koehl, Human Development & Family Studies)

54. Citizen Voice in Climate Migration: Exploring Public Opinion’s Influence on Government Action  
Rayna Patel, Senior, Political Science, LAS  
(Research Mentor(s): Rana Khoury, Political Science)

55. Examining the Dynamics of Internally Displaced Persons in Ukraine: A Comprehensive Analysis  
Giovanni Giannelli, Junior, Geography & Geographic Information Science, LAS  
(Research Mentor(s): Cynthia Buckley, Sociology)

56. Healthcare in the Balance: Unmasking the Role of Privatization in the Access, Equity, and Outcomes of Health Institutions around the World  
Ethan Thuo, Senior, Political Science, LAS  
(Research Mentor(s): Jake Bowers, Political Science)

57. How Many School Social Workers Are in America?  
Arielle Britten, Junior, Social Work, SSW  
Ethan Kye, Junior, Social Work, SSW  
Tracy Mason, Junior, Social Work, SSW  
Brandon Seidensticker, Junior, Social Work, SSW  
(Research Mentor(s): Brenda Lindsey, Social Work)

58. International News and Domestic Legitimization in China  
Steven Zhen, Freshman, Mathematics, LAS  
(Research Mentor(s): Shuyuan Shen, Political Science)

59. Interstate Rivalry and Social Development: Exploring Potential Tradeoffs  
Sarine Kalayjian, Senior, Political Science, LAS  
(Research Mentor(s): Paul Diehl, Political Science)

60. Kenneth D. Bailey Academy of Danville Youth Participatory Action Research (YPAR) Project  
Armarni Eaton, Kenneth D. Bailey Academy High School  
Ariel Gossers, Kenneth D. Bailey Academy High School  
Tashonna Jones, Kenneth D. Bailey Academy High School  
Mariya McCullough, Kenneth D. Bailey Academy High School  
Krissa Sims, Kenneth D. Bailey Academy High School  
Cynthia Suggs, Kenneth D. Bailey Academy High School  
Tamiyah Walls, Kenneth D. Bailey Academy High School  
(Research Mentor(s): Amy Leman, Agricultural Leadership, Education & Communications & Jacinda Dariotis, Human Development & Family Studies)

61. Navigating Exile: Rebel Leader’s Strategic Choices in the Face of International Justice  
Arshiya Shah, Sophomore, Political Science, LAS  
Natalie Klunke, Sophomore, Global Studies, LAS  
(Research Mentor(s): Mayung Jung Kim, Political Science)

Nico Divizio, Senior, Political Science, LAS  
(Research Mentor(s): Aleks Ksiazkiewicz, Political Science)

63. Public Transportation Mobility and Social-Environmental Vulnerability in St. Louis, Missouri  
Allison Reed, Senior, Earth, Society & Environmental Sustainability, LAS  
(Research Mentor(s): Constance Brown, School of Earth, Society & Environment)

64. Quantifying Ideology and National Foreign Trade Policy  
Chenyu Jiang, Senior, Political Science, LAS  
(Research Mentor(s): Robert Carroll, Political Science)

65. Shelby County v. Holder: Examining the Impact of New Voting Restrictions  
Chanel Ziegler, Senior, Political Science, LAS  
(Research Mentor(s): Brian Gaines, Political Science)

66. The Impact of Structural Racism on Black Residents in Champaign County  
Jae’da Thompson, Sophomore, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Anisa Codamon, Human Development & Family Studies & Sharde Smith, Human Development & Family Studies)

67. Victimization and Mental Health among Transgender and Gender Expansive Youth in Illinois: Implications for Creating Safer Schools  
Noah Rawls, Sophomore, Social Work, SSW  
Fynn Levery, Junior, Social Work, SSW  
(Research Mentor(s): Rachel Garthe, Social Work)
UNDERGRADUATE RESEARCH WEEK  APRIL 21 - 27, 2024

PH – Education, Learning & Human Development
10:45 AM - 12:00 PM, Illini Room C

68. A Brief History of the Historically Black Junior Colleges
Rosabella Wu, Freshman, Learning & Education Studies, EDU
(Research Mentor(s): H. M. Kuneyl, Education Policy, Organization & Leadership)

69. A Comprehensive Redesign of CS101 for Students in The Grainger College Engineering
Yuxuan Chen, Senior, Mathematics + CS, LAS
Kangyu Feng, Senior, Computer Science, ENG
(Research Mentor(s): Mariana Silva, Computer Science & Mattox Beckman, Computer Science)

70. Accessibility Nuggets, Video Vignettes, and Other Instructor Development Approaches to Foster UDL Adoption and Inclusive Engineering Education
Delu Zhao, Junior, CS + Economics, LAS
Meghana Gopannagari, Sophomore, Computer Science, ENG
(Research Mentor(s): Hongye Liu, Computer Science)

71. Developing a New Test to Investigate the Impact of Classroom Noise on Children's Listening Comprehension
Isabella Lau, Junior, Speech & Hearing Science, AHS
Emma Manukian, Graduated December 2023, Speech & Hearing Science, AHS
Maddie Russel, Senior, Speech & Hearing Science, AHS
Ella Redden, Freshman, Speech & Hearing Science, AHS
(Research Mentor(s): Mary Flaherty, Speech & Hearing Science)

72. Exploring the Influence of Socialization on the Social and Emotional Development of Preservice Physical Education Teachers
Kendell MacDonald, Sophomore, Kinesiology, AHS
Nkem Idenmudia, Senior, Kinesiology, AHS
(Research Mentor(s): Kevin Richards, Kinesiology & Community Health & Alyssa Trad, Kinesiology & Community Health)

73. Illinois School District Teacher Vacancies and Impacting Factors
Lillian Miller, Freshman, Elementary Education, EDU
Jamie Vassos, Freshman, Secondary Education, EDU
Analucia Valenzuela-Gutierrez, Freshman, Secondary Education, EDU
(Research Mentor(s): Nancy Latham, Curriculum & Instruction)

74. Impact of Soy Foods on Physical and Cognitive Health in Children: The Plants Optimizing Development Study (PODS) Protocol
Julia Parzych, Freshman, Speech & Hearing Science, AHS
Clarissa Harrington, Sophomore, Community Health, AHS
(Research Mentor(s): Ajla Brstina, Neuroscience Program & Naiman Khan, Kinesiology & Community Health)

75. Investigating Topic Maintenance and Organization to Advance Understanding of Kindergarten and First Grade Opinion Writing
Tess Richey, Junior, Speech & Hearing Science, AHS
Dorota Wulw, Junior, Speech & Hearing Science, AHS
Jenna Quafisheh, Sophomore, Speech & Hearing Science, AHS
Emily Kinel, Sophomore, Speech & Hearing Science, AHS
Avani Anabile, Freshman, Speech & Hearing Science, AHS
Maddie Glowacki, Sophomore, Speech & Hearing Science, AHS
(Research Mentor(s): Meaghan McKenna, Speech & Hearing Science)

76. Peer Problems during Early Adolescence: Mother's Advice and Youth Responses to Advice
Allegria Hinojosa-Cabrera, Senior, Human Development & Family Studies, ACES
(Research Mentor(s): Kelly Tu, Human Development & Family Studies)

77. Problems with Online Education and How to Ensure Online Learning is Effective
Emily Crosswell, Sophomore, Elementary Education, EDU
Amy Aburto, Freshman, Special Education, EDU
Ava Raval, Sophomore, Elementary Education, EDU
Jari Appling, Senior, Elementary Education, EDU
Stephanie Coleman, Sophomore, Elementary Education, EDU
(Research Mentor(s): Allison Witt, Education Policy, Organization & Leadership)

78. The Connection of Student-Educator Interaction to Classroom Culture
Meredith Hislope, Junior, Art Education, FAA
Ian Fischer, Senior, Art Education, FAA
Yvett Castrejon, Senior, Art Education, FAA
Carla Chocolate, Senior, Art Education, FAA
Natalie Wroblewski, Senior, Art Education, FAA
(Research Mentor(s): Jennifer Bergmark, Art & Design)

79. The Practice and Role of the Yew Chung Approach
Ruxuan Zhou, Freshman, Learning & Education Studies, EDU
Ruxu Zhao, Freshman, Early Childhood Education, EDU
(Research Mentor(s): Stephanie Sanders-Smith, Curriculum & Instruction)

80. Transition of Student Service Members and Veterans to Higher Education: A Scoping Review
Joel Emil, Sophomore, Kinesiology, AHS
(Research Mentor(s): Chung-Yi Chiu, Kinesiology & Community Health & Kortney Wilcher, Kinesiology & Community Health)

81. Zooming In: Exploring the Impact of Student Camera Usage on Teacher Confidence in Facilitating Online Collaborative Learning
Ryan McMahon, Freshman, Secondary Education, EDU
Emily Correll, Senior, Chemistry, LAS
Dhanya Duvvuri, Sophomore, Middle Grades Education, EDU
Lilly Stange, Sophomore, Elementary Education, EDU
Mishal Nizar, Sophomore, Early Childhood Education, EDU
(Research Mentor(s): Janine Solberg, Education Policy, Organization & Leadership)
85. 3D Visualization of Supernova and Hypermassive Binary Neutron Star Mergers
Rohan Narasimhan, Junior, Physics, ENG
Yimin Liang, Sophomore, Engineering Physics, ENG
(Research Mentor(s): Stuart Shapiro, Physics and Astronomy & Antonios Tsokaros, Physics)

86. Thrust-Efficient Path Following for Vertical Take-off and Landing Vehicles
Kennedy Berschel, Senior, Mechanical Engineering, ENG
(Research Mentor(s): John Bullock, Aviate Center & Sheng Cheng, Aviate Center)

87. Analysis of Postural Control Dynamics through Foot and Shoe Size Analysis
Armaan Suga, Sophomore, Molecular & Cellular Biology, LAS
Arion Dey, Junior, Molecular & Cellular Biology, LAS
Ritu Meda, Junior, Interdisciplinary Health Sciences, AHS
Arya Shah, Junior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Manuel Hernandez, Kinesiology & Community Health)

88. Analyzing Ocean Conditions before Strong El Nino Events
Charlie Remmers, Sophomore, Atmospheric Sciences, LAS
(Research Mentor(s): Ryan Sriver, Climate, Meteorology & Atmospheric Sciences)

89. Charging Ahead: The Next Generation of Solid-State Lithium-Ion Battery Solutions
Martha Kubakh, Junior, Chemistry, LAS
(Research Mentor(s): Paul Braun, Chemistry & Saeed Moradi, Chemical & Biomolecular Engineering)

90. Designing Curricular Resources for an Innovative Minecraft Based Learning Bot
Arunima Suri, Freshman, CS + Education, EDU
(Research Mentor(s): H Chad Lane, Educational Psychology & Jeff Ginger, Illinois Informatics Institute)

91. Effects of Thermo-Oxidation on Mechanical Properties and Deconstruct-Ability of Deconstruct-Able Thermoset DCPD co-DHF Carbon Fiber Laminates
Ariana Kublesar, Junior, Aerospace Engineering, ENG
(Research Mentor(s): Saurabh Bagare, Aerospace Engineering)

92. Watch your V.I.T.A.L Signs: Versatile Informative Technology for Atrial Management and Learning
Alan Mathew, Freshman, Biology, LAS
Maya Achettu, Freshman, Biology, LAS
Caleb Thomas, Sophomore, Bioengineering, ENG
Christopher George, Junior, Bioengineering, ENG
Riya Kapoor, Freshman, Community Health, AHS
Mikey Pantoja, Sophomore, Molecular & Cellular Biology, LAS
Katie Rich, Freshman, Chemistry, LAS
Irsh Shaikhi, Freshman, Psychology, LAS
Pujan Vyas, Freshman, Neuroscience, LAS
Nikola Buiz, Junior, Chemistry, LAS
Diya Patel, Freshman, Bioengineering, ENG

93. Enhancing Phase Identification in Waste-to-Energy Fly Ashes: Role of Raman Spectroscopy, Background Fluorescence, and Photobleaching
Halle-Mari Santiago, Senior, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Nishant Garg, Civil & Environmental Engineering & Vikram Kumar, Civil & Environmental Engineering)

94. Evolution of a Toroidally Magnetized Black Hole Disk
Shreyas Jammi, Junior, Physics, ENG
Jonah Doppelt, Senior, Engineering Physics, ENG
(Research Mentor(s): Antonios Tsokaros, Physics & Milton Ruiz, University of Valencia)

95. Faradaic Rhenium Recovery with Polyvinyl Ferrocene (PVF) Coated Carbon Electrodes
Joseph Hladik, Junior, Chemical Engineering, LAS
(Research Mentor(s): Roland Cusick, Civil & Environmental Engineering & Yurui Li, Civil & Environmental Engineering)

96. Integrating a Machine Learning Method for Quantitative Biostatistical Analyses
Nicolas Hernandez, Junior, Animal Sciences, ACES
(Research Mentor(s): Andrew Leakey, Plant Biology & Adrienne Antonson, Animal Sciences)

97. POINT VR: Developing Graphics for Gravity & General Relativity Simulations in Virtual Reality
Anisha Jog, Junior, Computer Science, ENG
(Research Mentor(s): Eric Shaffer, Computer Science & Sonali Joshi, Physics)

98. Quantifying Bias in Tidal Deformability Measurements Due to Exclusion of Possible Modified Gravity Effects
Dhruv Srivastava, Sophomore, Physics, ENG
(Research Mentor(s): Kristen Schumacher, Physics & Nicolas Yunes, Physics)

99. Results from the Helium Retention Mechanism Experiment in Stellarator (HeRMES) Campaign
Arnav Goyal, Freshman, Nuclear, Plasma & Radiological Engineering, ENG
Adam Kim, Sophomore, Nuclear, Plasma & Radiological Engineering, ENG
(Research Mentor(s): Daniel Andruczyk, Nuclear, Plasma & Radiological Engineering)

100. Simulation Research and Techniques for Nuclear Reactor Physics: Monte Carlo and Finite Elements
Severin Vorotnjak, Sophomore, Nuclear, Plasma & Radiological Engineering, ENG
Justin Jia, Freshman, Nuclear, Plasma & Radiological Engineering, ENG
Brett Heberer, Freshman, Nuclear, Plasma & Radiological Engineering, ENG
(Research Mentor(s): Tomasz Kozlowski, Nuclear, Plasma & Radiological Engineering)
101. Spectroscopic and Photometric Standards for Faint DA White Dwarf Stars
Mai Li, Junior, Astrophysics, LAS
(Research Mentor(s): Aidan Berres, Astronomy & Gautham Narayan, Astronomy)

102. Sperm Maturation Affects Sperm Binding to Complex and Hybrid N-Linked Oligosaccharides and the Functional Outcome of Binding
Lujain Nachbat, Junior, Animal Sciences, ACES
(Research Mentor(s): David Miller, Animal Sciences & Leonardo Molina, Animal Sciences)

103. Synthetic Endocrine Disrupting Chemicals and Copulatory Behavior among Mice
Christopher Oei, Junior, Molecular & Cellular Biology, LAS
Aneta Dzielska, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Jacob Maxon, Neuroscience Program & Megan Mahoney, Comparative Biosciences)

104. Technological Frontiers in Exercise and Cognitive Function: Interplay, Intervention, and Individualization
Isabella Calderon, Junior, Psychology, LAS
(Research Mentor(s): Sean Mullen, Kinesiology & Community Health & David Thomas, Informatics)

105. The Effect of Prophylactic Clemastine Treatment on the Generation of Influenza A Virus-Specific Cytotoxic T Cell Responses
Arianna Mendez, Junior, Animal Sciences, ACES
(Research Mentor(s): Andrew Steelman, Animal Sciences & Steven Krauklis, Animal Sciences)

106. Towards Seamless Integration: Realtime Object Detection in Mixed and Virtual Reality
Jacob Stolker, Junior, Computer Science, ENG
(Research Mentor(s): Avinash Gupta, Industrial & Enterprise Systems Engineering & George Mois, Human Factors & Aging Laboratory)

107. Towards Synthetic Hemoglobin: 9, 9'-Bianthracene, a Novel Motif for Cooperative Binding
John Van Wazer, Senior, Biochemistry, LAS
(Research Mentor(s): Martin Burke, Chemistry)

108. Treating Huntington’s Disease Using CRISPR-Cas9 Gene Editing
Daniela Del Bosque Siller, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Martin Burke, Chemistry)

109. Tuning Hydrogel Composition and Architecture to Study Cell Migration
Eliza Refaqat, Senior, Bioengineering, ENG
(Research Mentor(s): Susan Leggett, Bioengineering)

110. Biochar-augmented Cementitious System as a Viable Tool for Carbon Sequestration
Jisu Hong, Sophomore, Civil Engineering, ENG
Amrit Agarwal, Freshman, Civil Engineering, ENG
(Research Mentor(s): Bayezid Baten, Civil Engineering)

111. Using Python to Correct and Analyze Integral Field Spectroscopy Data in the Large Magellanic Cloud
Martin Radecki, Junior, Physics, ENG
(Research Mentor(s): Tony Wong, Astronomy)

112. Utilizing Code to Simulate and Teach the Thermodynamics of Internal Combustion Engine Cycles
Nick King, Senior, Computer Science & Math, LAS
(Research Mentor(s): Juan Norverto Morifix, Universidad Pontificia Comillas)

113. Utilizing Frequency Modulated Continuous Waveform Radar for Analysis of a Crowd of People and their Movements
Anay Koorapaty, Junior, Electrical Engineering, ENG
(Research Mentor(s): Thomas Moon, Electrical & Computer Engineering)

114. Modified Theories of Gravity in Black Hole Accretion Simulations
Shreya Majumdar, Senior, Astronomy, LAS
(Research Mentor(s): Charles Forbes Gammie, Physics)

115. Optimal Control Strategy to Water Flow of the Great Lake System
Mengxuan Qiu, Senior, Mathematics, LAS
Allen Chen, Junior, Computer Science, ENG
Yue Chen, Junior, Computer Science, ENG
(Research Mentor(s): Timothy Thieme, Mathematics)

PJ – Cells & Molecules
12:15 PM – 1:30 PM, Illini Room A

1. Acute Exposure to Herbicide Dicamba and Its Impacts on the Danio Rerio Microbiome
Chloe Zant, Junior, Integrative Biology, LAS
(Research Mentor(s): Chris Gaulke, Pathobiology)

2. AI-Mediated Segmentation and Identification of Glioblastoma Cellular Microenvironment
Yasmine Khan, Junior, Bioengineering, ENG
Chadrick Gyabin, Sophomore, Bioengineering, ENG
(Research Mentor(s): Catherine Best-Popescu, Bioengineering & Will Han, Bioengineering)

3. Capture and Detection of Tear Biomarkers Using Modified Punctal Plugs
Vishwa Patel, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Jay Taylor, Materials Science & Engineering)

4. Characterizing the Viral Factors That Inhibit Interferon Expression during Influenza Infection
Tameem Abou-Chakra, Sophomore, Molecular & Cellular Biology, LAS
(Research Mentor(s): Chris Brooke, Microbiology & Joel Rivera Cardona, Microbiology)

5. Effects of Chronic Methamphetamine Exposure on the Immune Response in Adult Male Rats
Emma Prybylski, Senior, Animal Sciences, ACES
(Research Mentor(s): Adrienne Antonson, Animal Sciences & Ashley Otero, Neuroscience Program)
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<tr>
<th></th>
<th>Title</th>
<th>Presenter(s)</th>
<th>Mentor(s)</th>
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<tbody>
<tr>
<td>6</td>
<td>Effects of Neuron-specific Aromatase Knockdown on Seizure Severity in Mice</td>
<td>Nikolas Corrales, LAS</td>
<td>Catherine Christian-Hinman, Alex French, Molecular &amp; Integrative Physiology</td>
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<tr>
<td>7</td>
<td>Elucidating Neuropeptide Profile Changes in Stickleback Parenting Behavior Using Tandem Mass-Spectrometry</td>
<td>Aniket Joglekar, LAS</td>
<td>Elena Romanova, Chemistry &amp; Jonathan Swedler, Chemistry</td>
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<td>8</td>
<td>Establishment of an In Vitro Toxicity Screening Model for Spermatogenesis in Mice</td>
<td>Angela Ho, LAS</td>
<td>Huanyu (Joe) Qiao, Comparative Biosciences</td>
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<tr>
<td>10</td>
<td>Microbiome Effects on Host-Parasite Interactions in Daphnia dentifera and Metschnikowia bicuspidata</td>
<td>Michelle Villalobos, LAS</td>
<td>Carla Cáceres, Evolution, Ecology &amp; Behavior &amp; Molly Fredericks, Evolution, Ecology &amp; Behavior</td>
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<td>11</td>
<td>Harnessing Tumor Extracellular Hyaluronan to Enhance Lymphocyte Infiltration in Glioblastoma</td>
<td>Ryan Yao, ENG</td>
<td>Sara Pedron-Haba, Chemical &amp; Biomolecular Engineering</td>
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<td>12</td>
<td>Hypothermic Effects on In Vitro Traumatic Brain Injury Models</td>
<td>James Keener Edmunds, ENG</td>
<td>Catherine Best-Popescu, Bioengineering &amp; Jorge Maldonado DeJesus, Neuroscience Program</td>
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<tr>
<td>13</td>
<td>Impacts of Prenatal Imidacloprid Exposure on Working Memory</td>
<td>Truman Poteat, LAS</td>
<td>Megan Mahoney, Comparative Biosciences</td>
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<td>14</td>
<td>Metabolism of K9TCC Bladder Cancer Cells and Their Extracellular Vesicles in Response to Cancer Treatments</td>
<td>Katerina Baxter, ENG</td>
<td>Stephen Boppart, Electrical &amp; Computer Engineering &amp; Jaena Park, Bioengineering</td>
</tr>
<tr>
<td>15</td>
<td>Molecular Interactions in the Lutein Epoxide Cycle in Soybean</td>
<td>Mia Eschman, ACES</td>
<td>Laurie Leonelli, Agricultural &amp; Biological Engineering &amp; Komal Attri, Carl R. Woese Institute for Genomic Biology</td>
</tr>
<tr>
<td>16</td>
<td>Spatial Transcriptional Analysis Reveals Oocyte-Specific Genes in Cumulus Granulosa Cells during Folliculogenesis</td>
<td>Rujuta Chikodikar, LAS</td>
<td>Huanyu (Joe) Qiao, Comparative Biosciences</td>
</tr>
<tr>
<td>17</td>
<td>Targeting Nur77 ( Nr4a1) in Enteroendocrine Cells</td>
<td>Sharon Dong, ACES</td>
<td>Bianca Guanying Xu, Food Science &amp; Human Nutrition</td>
</tr>
<tr>
<td>18</td>
<td>TGF-β Signaling Induces Epithelial-to-Mesenchymal Transition in Hepatocytes through ESRP2 Suppression</td>
<td>Ishita Purwar, LAS</td>
<td>Auinash Kalsotra, Biochemistry</td>
</tr>
<tr>
<td>19</td>
<td>The Effect of Phosphoinositides P(3,4)P2 and P(3,4,5)P3 on Vacuole Fusion and Ion Homeostasis</td>
<td>Charlie Knapp, LAS</td>
<td>Rutilio Fratti, Biochemistry &amp; Jorge Calderin, Biochemistry</td>
</tr>
<tr>
<td>20</td>
<td>Investigating Spatiotemporal Cell Behavior within a Tendon-to-Bone Scaffold for Rotator Cuff Repair</td>
<td>Caleigh Arentsen, ENG</td>
<td>Kyle Timmer, Chemical &amp; Biomolecular Engineering</td>
</tr>
<tr>
<td>21</td>
<td>Fine-Tuning Gelatin Methacrylate (GelMA) Synthesis for a 3D in vitro Bone Injury Modeling Platform</td>
<td>Sam Christoff, ACES</td>
<td>Grace Rubino, Chemical &amp; Biomolecular Engineering</td>
</tr>
<tr>
<td>22</td>
<td>Validation and Use of eMutaSP6 &amp; eMutaT7 Continuous Directed Evolution Systems in E. coli</td>
<td>Quentin Herzig, ACES</td>
<td>Ignacio Sparrow, Plant Biology &amp; Steven Burgess, Plant Biology</td>
</tr>
</tbody>
</table>
25. “Nosotros Como Latinos Bailamos La Cumbia”: A Qualitative Analysis of a Remote Latin Dance Program for Latino Middle-Aged Adults
Thais Ocana, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Susan Aguinaga, Kinesiology & Community Health)

26. A Bibliometric Analysis of Physical Activity Policy Publications in China
Anne Tang, Senior, Community Health, AHS
(Research Mentor(s): Pedro Hallal, Kinesiology & Community Health & Diana Morales, Kinesiology & Community Health)

27. A Meta-Analysis of Diversity-Disease Relationships in the Human Microbiome
Natalie Sinjaradze, Senior, Integrative Biology, LAS
Dishan Gunya, Sophomore, Integrative Biology, LAS
Hanif Salam, Senior, Integrative Biology, LAS
(Research Mentor(s): Brian Allan, Entomology & Fahren Zackery, Program in Ecology, Evolution & Conservation Biology)

28. A Qualitative Analysis of Barriers and Facilitators among Middle-Aged Latinx Adults Participating in a Latin Dance Program
Monserrat Ponce, Senior, Community Health, AHS
(Research Mentor(s): Susan Aguinaga, Kinesiology & Community Health & Diana Morales, Kinesiology & Community Health)

29. Anti-Melanoma Effects of Soybean Lunasin and Amaranth Unsaaponifiable Matter Transported into Liposomes through the Upregulation of Cell Cycle Inhibitors in a Mouse Model
Najwa Farhana Yahya, Senior, Food Science & Human Nutrition, ACES
(Research Mentor(s): Elvira de Mejia, Food Science & Human Nutrition & Erick Damian Castañeda-Reyes, Food Science & Human Nutrition)

30. Bridging Faith and Care: Navigating Religious Affiliation in U.S. Healthcare
Jonathan Blatchford, Senior, Community Health, AHS
(Research Mentor(s): Michael Lotspeich-Yadao, Kinesiology & Community Health)

31. Cluster of Health Behaviors Associated with Obesity in Adolescents from Brazil
Tristin Baker, Sophomore, Kinesiology, AHS
(Research Mentor(s): Rafael Tassitano, Kinesiology & Community Health)

32. Daily Activity Challenges in Persons with Mild Cognitive Impairment
Natalia Mihigo, Junior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Raksha Mudar, Speech & Hearing Science)

33. Differences in the Multidimensional Sexual Self-Concept between Transgender and Cisgender Individuals
Max Zagorski, Freshman, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Liza Berdychevsky, Recreation, Sport & Tourism & Xue Yan, Recreation, Sport & Tourism)

34. Effects of Modes and Intensities of Handgrip Exercise on Neuromuscular Fatigue in Individuals with Cerebral Palsy
Elisabeth Paskali, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Yih-Kuen Jan, Kinesiology & Community Health)

35. Engaging Asian American Family Caregivers in Clinical Trials: Findings from a Nationwide Study
Anjali Yedavalli, Junior, Biology, LAS
Sabeen Sadruddin, Senior, Community Health, AHS
(Research Mentor(s): Minakshi Raj, Kinesiology & Community Health)

36. Examining Sex Differences in the Balance of Glenohumeral Musculature
Savanna Rudy, Junior, Kinesiology, AHS
Brittni Hollis, Senior, Kinesiology, AHS
(Research Mentor(s): Josh Leonardis, Kinesiology & Community Health & Whitney Wolff, Kinesiology & Community Health)

37. Habitual Low-Calorie Sweetener Consumption and Eating Behaviors
Sonja Bradley, Senior, Nutrition & Health, ACES
Hanne Livermore, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Yanina Pepino, Food Science & Human Nutrition & Stephanie Okoye, Food Science & Human Nutrition)

38. Impact of Air Purification Systems on School Absenteeism and Academic Performance: A Systematic Review and Meta-Analysis
Akshara Kumar, Senior, Interdisciplinary Health Sciences, AHS
Charlie Watts, Junior, Psychology, LAS
(Research Mentor(s): Heejin Kim, Linguistics & Alex Barkhimer, Speech & Hearing Science)

39. Increasing the Speech Intelligibility of Individuals with Down Syndrome in AI Voice Assistants
Emma Mueller, Senior, Speech & Hearing Science, AHS
Abigail Keasler, Senior, Speech & Hearing Science, AHS
Liz Gremer, Senior, Speech & Hearing Science, AHS
Sophie Campa, Junior, Speech & Hearing Science, AHS
Corrie Penrod, Junior, Speech & Hearing Science, AHS
(Research Mentor(s): Heejin Kim, Linguistics & Alex Barkhimer, Speech & Hearing Science)

40. Investigating the Effect of Avocados on Cardiovascular Health Using a Randomized Controlled Complete Feeding Trial
Jenya Varaniuk, Junior, Nutrition & Health, ACES
(Research Mentor(s): Tori Holthaus, Division of Nutritional Science & Naiman Khan, Kinesiology & Community Health)

41. Mind Over Mass: Cognitive Training’s Influence on Weight Loss
Solange Nwokenkwo, Senior, Kinesiology, AHS
(Research Mentor(s): Sean Mullen, Kinesiology & Community Health)

42. Motivations of Older Adults’ Usage of Digital Health Technology
Gabriella Schneider, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Mimi Trinh, Kinesiology & Community Health & Wendy Rogers, Kinesiology & Community Health)

43. Narrative Review on the Effects of Mindfulness-Based Interventions on Mental Health of Hispanic/Latino Populations
Camilo Jaime-Rivera, Senior, Kinesiology, AHS
(Research Mentor(s): Ryan Santens, Kinesiology & Community Health & Diana Morales, Kinesiology & Community Health)
44. Public Health Preparedness among UIUC Students during Extreme Heat Conditions  
Saiesha Bollapragada, Freshman, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Mariela Fernandez, Recreation, Sport & Tourism & Kshitij Tewari, Recreation, Sport & Tourism)

45. Redesign of Blood Pressure Visualizations for Enhancing User Comprehension in mHealth Applications  
Amy Ni, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health & Renato Ferreira Leitão Azevedo, Kinesiology & Community Health)

46. Supporting Engagement and Activity through Virtual Reality  
Anika Urbonas, Sophomore, Community Health, AHS  
(Research Mentor(s): George Mois, Human Factors & Aging Lab)

47. The Epidemiology of Physical (In)activity and Mobility Limitation among the Oldest Old in Brazil  
Allison Adler, Freshman, Community Health, AHS  
Maron Penrod, Sophomore, Community Health, AHS  
(Research Mentor(s): Emerson Sebastian, Kinesiology & Community Health)

Avery Andersen, Junior, Dietetics & Nutrition, ACES  
(Research Mentor(s): Elizabeth Brandley, Nutritional Sciences)

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**PL – Social Science & Human Behavior**

12:15 PM – 1:30 PM, Illini Room C

50. Adjective Use in Language Production  
Ella Bohlm, Senior, Psychology, LAS  
(Research Mentor(s): Jessica Montag, Psychology)

51. Adversity, Resilience, and Lifespan Development  
Saifei Mu, Senior, Psychology, LAS  
(Research Mentor(s): Brent Roberts, Psychology & Cavan Bonner, Psychology)

52. A-List Advocacy: Celebrity Endorsements & Voter Behavior  
Emily Fitch, Senior, Political Science, LAS  
(Research Mentor(s): Cara Wong, Political Science)

Alexandra Gergova, Senior, Political Science, LAS  
(Research Mentor(s): Benjamin Miller, Political Science)

54. Developmental Delay in Language Development in FXS Rats  
Arjun Vaidya, Junior, Physics, ENG  
(Research Mentor(s): Benjamin Auerbach, Molecular & Integrative Physiology & Walker Gauthier, Neuroscience Program)

55. Digital Literacy: Expectations and Reality  
Arista Sudharta, Freshman, Learning & Education Studies, EDU  
(Research Mentor(s): Jina Kang, Curriculum & Instruction)
66. The Role of Community Health Workers on Physical Activity Interventions
Janiya Daniel, Junior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Susan Aguinaga, Kinesiology & Community Health & Andiara Schwingel, Kinesiology & Community Health)

67. The Role of Racial Identity and Exposure to Diversity in Shaping Realness Perception of AI Generated Image of Human Faces
Iris Shang, Senior, Psychology, LAS
(Research Mentor(s): Michael Rizzo, Psychology & Tim (Wei-Ting) Chao, Psychology)

PM Session – Data & Information
12:15 PM – 1:30 PM, Illini Room C

68. Untitled
Anushree Tibrewal, Junior, Computer Science, ENG
(Research Mentor(s): Nancy Amato, Computer Science)

69. Affordable and Versatile Markerless Motion Capture Using Two Cameras and Open-Source Software
Daniel Chun, Junior, Mechanical Engineering, ENG
(Research Mentor(s): Mariana Kersh, Mechanical Science & Engineering & Griffin Sipes, Mechanical Science & Engineering)

70. Analyzing PLC Applications on Embedded Platforms Using OpenPLC framework
Natalie Gavin, Sophomore, Computer Science, ENG
Ieva Bagdonaviciute, Sophomore, Computer Engineering, ENG
(Research Mentor(s): Ashish Kashinath, Computer Science)

71. CRYPTO-MINE: Cryptanalysis via Mutual Information Neural Estimation
Benjamin Kim, Junior, Computer Engineering, ENG
(Research Mentor(s): Muriel Médard, Massachusetts Institute of Technology & Vipindev Adat Vasudevan, Massachusetts Institute of Technology)

72. Evaluating the Performance of Machine Translation with Null Subjects in Spanish and Tamil
Anisha Rao, Freshman, Linguistics, LAS
(Research Mentor(s): Katie VanDyne, Linguistics)

73. GPU-Accelerated CUDA Kernel Profiling, Analysis and Automation
Lawrence Cheng, Freshman, Computer Engineering, ENG
Noah Rockoff, Sophomore, Computer Engineering, ENG
(Research Mentor(s): Kun Wu, Electrical & Computer Engineering)

74. Knowledge Graphs Can Increase the Factual Knowledge of Large Language Models by Providing Additional Structured Intelligence
Philip Montgomery, Sophomore, CS + Economics, LAS
Tiger Wang, Senior, Mathematics + CS, LAS
(Research Mentor(s): Tomasz Kozlowski, Nuclear Plasma & Radiological Engineering)

75. Using Best Practices for Graphical Communication to Share Social and Environment Data in an Environmental Justice Context
Inna Chong, Junior, Kinesiology, AHS
(Research Mentor(s): Sheena Martenies, Kinesiology & Community Health)

76. Mass Spectrometry Data Analysis: Development of Python-Based Analysis Tool
Andrew Hamilton, Sophomore, Neuroscience, LAS
(Research Mentor(s): Chen Huang, Chemistry & Jonathan Sweedler, Chemistry)

77. Morphologies of CL-AGN Host Galaxies
Tanay Agrawal, Freshman, Astrophysics, LAS
(Research Mentor(s): Margaret Elizabeth Verrico, Astronomy)

78. Perceptions of Counterfactual-Driven Learning Recommendations
Ziwei Wang, Senior, Information Sciences, SIS
Stefan Chu, Senior, Information Sciences, SIS
(Research Mentor(s): Haejin Lee, School of Information Sciences & Nigel Bosch, Educational Psychology)

79. Predictability in College Sports: Comparing the Accuracies of Prediction Models for College Football and Basketball Games
Samuel Lam, Freshman, Mathematics, LAS
Yihan Gao, Junior, Engineering Undeclared, ENG
David Xia, Freshman, Computer Science, ENG
(Research Mentor(s): AJ Hildebrand, Mathematics & Bingyan Liu, Mathematics)

80. Privacy Risks in Mobile Health Apps: A Comprehensive Investigation
Dan Chen, Sophomore, Mathematics + CS, LAS
(Research Mentor(s): Hassan Muhammad, School of Information Sciences)

81. Replicating a Citation Context Analysis Study Using Natural Language Processing Methods
Zhiheng Ye, Senior, Statistics, LAS
(Research Mentor(s): Jodi Schneider, School of Information Sciences & Janina Sarol, School of Information Sciences)

82. The Influence of Missing Data Imputing Procedures on Evaluating Diagnostic Assessments
Jiepeng Yuan, Senior, Psychology, LAS
(Research Mentor(s): Susu Zhang, Psychology)
83. The Use of Large Language Models for Assessing Citation Accuracy in Biomedical Publications
Yichen Liu, Sophomore, Mathematics + CS, LAS
(Research Mentor(s): Halil Kilicoglu, School of Information Sciences & Janina Sarol, School of Information Sciences)

84. Evaluation of Transgenic Sorghum Plants Engineered for Greater Water Use Efficiency
Elaine Guel, Senior, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Sanbon Gosa, Institute for Sustainability, Energy & Environment)

85. A Hydrolyzed Lipid Blend Diet Promotes Myelination in Neonatal Piglets in a Region and Concentration-Dependent Manner
Jacob Goldenbaum, Senior, Animal Sciences, ACES
(Research Mentor(s): Lauretta Rund, Animal Sciences)

86. Creating Programmable Plant System for Monitoring Nitrogen Responses in Maize
Leah Erdmann, Senior, Plant Biotechnology, ACES
(Research Mentor(s): Stephen Moose, Crop Sciences)

87. Detection of Cacao Shells in Chocolate Using Near-Infrared Spectroscopy (NIR)
Ayushi Chakraborty, Sophomore, Biochemistry, LAS
(Research Mentor(s): AJ Taylor, Food Science & Human Nutrition)

88. Development of a Machine Learning Model for Predicting Plant Traits Using High-Resolution Sensor Data from TERRA-REF
Joseph Ku, Senior, CS + Crop Sciences, ACES
(Research Mentor(s): Elhan Ersoz, Crop Sciences)

89. Do Stress Combinations Rewire the Metabolic Profile of Tomato?
Michael Somerville, Junior, Integrative Biology, LAS
(Research Mentor(s): Esther Ngumbi, Entomology & Erinna Dady, Entomology)

90. Effect of the Urban Built Environment on Food Access for People Living Alone
Ellie Sander, Senior, Urban Studies & Planning, FAA
(Research Mentor(s): Merin Oleschuk, Human Development & Family Studies & Matthew Rivas-Koehl, Human Development & Family Studies)

91. Eggsploring Bluefin Killifish Reproduction: Microhabitat Variations and Ovaposition Preferences
Marie Peters, Sophomore, Biology, LAS
Anushka Bhat, Sophomore, Integrative Biology, LAS
(Research Mentor(s): Rebecca Fuller, Evolution, Ecology & Behavior & Ratna Karatgi, Evolution, Ecology & Behavior)

92. Evaluating Consumer Preferences towards Sustainable Agri-Food Products
Olivia Pazerunas, Senior, Agricultural & Consumer Economics, ACES
(Research Mentor(s): Shadi Atallah, Agricultural & Consumer Economics)

93. Evaluation of Moderate and High Roughage Rations in a Confinement Cow-Calf System
Annalyssa Crain, Senior, Animal Sciences, ACES
(Research Mentor(s): Kylie Ewing, Animal Sciences & Dan Shike, Animal Sciences)

94. Evaluation of Transgenic Sorghum Plants Engineered for Greater Water Use Efficiency
Elaine Guel, Senior, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Sanbon Gosa, Institute for Sustainability, Energy & Environment)

95. Examination of Physicochemical Properties of Fresh and Spent Coffee Brews
Emma Schmule, Senior, Food Science, ACES
(Research Mentor(s): AJ Taylor, Food Science & Human Nutrition & Nicki Engeseth, Food Science & Human Nutrition)

96. Exploration of Type Specimens in the Crop Evolution Laboratory (CEL) Herbarium
Franchesca Austriaco, Sophomore, Crop Sciences, ACES
(Research Mentor(s): Chance Riggins, Crop Sciences)

97. Food Trucks in Champaign: Is It an Option for Businesses?
JiaBao Yu, Junior, Agricultural & Consumer Economics, ACES
(Research Mentor(s): Bryan Endres, Agricultural & Consumer Economics)

98. From Farm Fields to Family Meals: Transforming Consumer Attitudes towards Food Production
Emily Brooks, Senior, Agribusiness Markets & Management, ACES
(Research Mentor(s): David Rosch, Agricultural Leadership, Education & Communication)

99. From the Past to the Present: Comparing Abiotic and Biotic Stress Response in Ancient vs. Commercial Tomato Plants
Lillian Coy, Sophomore, Integrative Biology, LAS
(Research Mentor(s): Esther Ngumbi, Entomology)

100. In the Limelight: An Investigation into Light Intensity as a Stressor in Sorghum
Steven Blanke, Senior, Biochemistry, LAS
(Research Mentor(s): Sanbon Chaka Gosa, Plant Biology & Andrew Leakey, Plant Biology)

101. Investigating Effects of Temperature on Germination of Native and Invasive Populations of Palmer Amaranth
Andres Lopez, Freshman, Plant Biotechnology, ACES
(Research Mentor(s): Chance Riggins, Crop Science)

102. Lupin Variation Across Glycine Max Varieties: Implications for Functional Food Development
Aya Jabi, Senior, Food Science & Human Nutrition, ACES
(Research Mentor(s): Elvira de Mejia, Food Science & Human Nutrition & Jennifer Kusumah, Food Science & Human Nutrition)

103. Lycopene Turnover Rate in Mice
Kayleigh Cox, Sophomore, Animal Sciences, ACES
(Research Mentor(s): John Erdman, Food Science & Human Nutrition & Molly Black, Food Science & Human Nutrition)

104. Maternal Defense Strategies: Investigating Female Aggression in Dying Poison Frogs, Dendrobates Tinctorius
Isabella Strohmeier, Junior, Integrative Biology, LAS
(Research Mentor(s): Eva Fischer, Evolution, Ecology & Behavior & Sarah Westrick, Evolution, Ecology & Behavior)
105. Multispectral Sorting to Reduce Aflatoxins in Bulk Maize Retains Some Efficacy when Tested under Less Controlled Field Conditions

Julie Hwang, Senior, Food Science, ACES
(Research Mentor(s): Matthew Stasiewicz, Food Science & Human Nutrition)

106. QTL Analysis of Photosynthetic Traits in a MAGIC Maize Population under Cold Stress

Casey Kramer, Senior, Plant Biotechnology, ACES
(Research Mentor(s): Lisa Ainsworth, Plant Biology)

107. Exploring National Support for Programmable Plant System Research

Valerie Villaflor, Senior, History, LAS
Fangyi Shou, Senior, Communication, LAS
(Research Mentor(s): Cabral Bigman, Communication & Sarah Benevento, Communication)

108. Testing Assembly of Phylogenetic Markers from Low-Coverage Whole Genome Sequence Data in Fishes

Varenya Jain, Senior, Integrative Biology, LAS
(Research Mentor(s): Milton Tan, Illinois Natural History Survey)

109. The Effects of Sire Line on Growth Performance, Loin, and Belly Quality

Emma Frank, Senior, Animal Sciences, ACES
(Research Mentor(s): Anna Dilger, Animal Sciences)

110. To Branch or Not to Branch: Mapping a Tilling Mutant in Maize

Marie Shaffer, Senior, Plant Biotechnology, ACES
(Research Mentor(s): Anthony Studer, Crop Sciences)

111. Understanding and Predicting Phytoplasma Outbreaks: A Global Perspective

Roxana Jafari Haddadian, Freshman, Neural Engineering, ENG
(Research Mentor(s): Valeria Trivellone, Illinois Natural History Survey)

112. Understanding Fine Root Traits in Corn Genotypes at Illinois Organic

Claire Sullivan, Junior, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Carmen Marlene Ugarte Diaz, Natural Resources & Environmental Sciences)

113. What Is Climate Smart Agriculture?: A Standardized Framework for Assessing the Effectiveness of Climate Smart Agriculture Systems and Practices

Olivia Messerger, Senior, Agricultural & Consumer Economics, ACES
(Research Mentor(s): Trent Ford, Prairie Research Institute)

114. Evaluation of the Effects of Colostrum on Calf Health and Growth

Jordyn Gerlach, Senior, Animal Sciences, ACES
(Research Mentor(s): Derek Nolan, Animal Sciences)

PO – Culture & Society
2:00 PM – 3:15 PM, Illini Room A

1. Amplifying the Feed: College Students Exposure to Black-Related Content on Social Media

Jennifer Quintana, Senior, Human Development & Family Studies, ACES
(Research Mentor(s): Shardé Smith, Human Development & Family Studies & Chelsea Alexander, Human Development & Family Studies)

2. Analysis of Socially Just Teacher Preparation in the State of Florida

Sophia Dike, Freshman, Secondary Education, EDU
Lesly Ortiz, Junior, English, LAS
(Research Mentor(s): Rachel Roegman, Education Policy, Organization & Leadership)

3. Faith and Foreign Relations: The Effect of Religious Values on Alliance Formation

Nancy Mi, Senior, Political Science, LAS
(Research Mentor(s): Don Casler, Political Science)

4. Family Law Attorneys’ Knowledge about Intimate Partner Violence: Implications for Their Screening Procedures

Emilia Quinones, Junior, Human Development & Family Studies, ACES
(Research Mentor(s): Emily Charvat, Human Development & Family Studies & Jennifer Hardesty, Human Development & Family Studies)

5. Investigating College Readiness among First Generation College Students

Sophie Chiewtrakoon, Sophomore, Information Sciences, SIS
(Research Mentor(s): Anna Barkley, Education Policy, Organization & Leadership)

6. Investigating Unintended Consequences: An Exploration into How State Behavioral Health Plans May Impact Youth Substance Use

Kevin Dai, Freshman, Electrical Engineering, ENG
(Research Mentor(s): Benjamin Campbell, Kinesiology & Community Health)

7. Measuring Associations of Historic Racism and Health: Sundown Towns and Health in Illinois and Indiana

Diego Lopez, Junior, Geography & Geographic Information Science, LAS
(Research Mentor(s): Marynia Aniela Kolak, Geography & Geographic Information Science)


Avery Martin, Junior, Psychology, LAS
(Research Mentor(s): Wallace Golding, Communication)

9. Examining Human and Other-than-Human Interactions in Moose Parks through Visitor Reviews

Yihao Chen, Junior, Sociology, LAS
(Research Mentor(s): Emma Lundin, Recreation, Sport & Tourism)
10. Quantifying the Effects of News Coverage on Humanitarian Aid Allocation  
Saket Pochiraju, Sophomore, CS + Geography & Geographic Information Science, LAS  
Anish Cherukuthota, Sophomore, CS + Statistics, LAS  
Shashwat Mundra, Sophomore, Computer Science, ENG  
Aryan Arora, Sophomore, Computer Science, ENG  
(Research Mentor(s): Eshwar Chandrasekharan, Computer Science & Koustuv Saha, Computer Science)

11. Self Blame In Black Racial Trauma as Political Beings  
Nidhi Patel, Senior, Psychology, LAS  
(Research Mentor(s): Alesha Lewis, Political Science)

12. Shaping Minds in the Shadows of Gentrification: Gentrification and Its Implications for Children’s Outcomes  
Grace Beyers, Senior, Human Development & Family Studies, ACES  
(Research Mentor(s): Christy Lleras, Human Development & Family Studies)

13. Shaping Public Trust: The Impact of Personal and Vicarious Experiences with the Police and Courts  
LJ Brockington, Senior, Political Science, LAS  
(Research Mentor(s): Jeffery Mondak, Political Science)

Sean Murphy, Junior, English, LAS  
(Research Mentor(s): Zachary Jablow, Political Science)

15. The Economic Issue of Contaminated Drinking Water  
Erin Kelley, Senior, Economics, LAS  
(Research Mentor(s): Warren Lavey, College of Law)

16. Treading Water: Hydropolitics in an Increasingly Torrid World  
Max Issel, Senior, Political Science, LAS  
(Research Mentor(s): Nicholas Grossman, Political Science)

17. El Salvador’s Carceral State and Prison Politics  
Alan Cervantes, Sophomore, Political Science, LAS  
(Research Mentor(s): Grazzia Maria Grimaldi, Anthropology)

18. Allied and Non-Allied Mediators: The Case of Armenia and Azerbaijan  
Stella Pashyan, Freshman, Psychology, LAS  
(Research Mentor(s): Jinwon Lee, Political Science)

PP – Cells & Molecules  
2:00 PM – 3:15 PM, Illini Room A

25. Altered Dopamine Release in Nucleus Accumbens during Lactation in Mice  
Lara Villano, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Patrick Sweeney, Molecular & Integrative Physiology & Tanya Pattnaik, Molecular & Integrative Physiology)

26. Alternative Splicing (AS) Mediates Differential Cardiac Bioenergetics and Mitochondrial Dynamics in Myotonic Dystrophy Type 1 (DM1)  
Pouya Nabie, Senior, Biology, LAS  
(Research Mentor(s): Auinash Kalsotra, Biochemistry & Fola Adesanya, Biochemistry)

27. Auditory System Development in a Rat Model of Tuberous Sclerosis Complex  
Laurel Hart, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Benjamin Auerbach, Molecular & Integrative Physiology)

28. Memory in Octopus Arms Based on Chemosensory Interactions  
Trisha Pal, Junior, Molecular & Cellular Biology, LAS  
Carina Dudick, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Rhanor Gillette, Molecular & Integrative Physiology & Ekaterina Gribkova, Neuroscience Program)

29. Dual Activity-Based Logic-Gate Reveals Crosstalk between Inflamed Tumor Microenvironment and Cancer Stem Cell Biomarker ALDH1A1  
Lily Wenger, Senior, Biochemistry, LAS  
(Research Mentor(s): Jefferson Chan, Chemistry & Chelsea Swartchick, Chemistry)

30. Endurance-Trained Pericyte-Derived Extracellular Vesicles to Improve Muscle Recovery Following Disuse Atrophy  
Manasi Reddy, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Marni Boppart, Kinesiology & Community Health & Alex Fliflet, Kinesiology & Community Health)

31. Exploring the Lethal Impact of Various ParA Variants through Suppressor Mutations in Caulobacter Crescentus  
Tammy Guo, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Paola Mera, Microbiology)
32. Inheritance of an Unusual Poly-C Tract and Other Potential Variants in an East Asian Human Mitochondrial Lineage
Eliana Eng, Junior, Integrative Biology, LAS
(Research Mentor(s): Christina Cheng-De Vries, Evolution, Ecology & Behavior)

33. Inhibiting Tyrosine Phosphorylation Alters Junctional β-Catenin Levels and Cell Shape
Maya Raviv, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): William Brieher, Cell & Developmental Biology)

34. Investigating Ineleganolide: The Total Synthesis a Highly Oxygenated Nocembranoid Diterpenoid
Diego Lopez, Junior, Chemistry, LAS
(Research Mentor(s): Dave Sarlah, Chemistry)

35. Investigating Neurokin-1 Receptor Antagonist Aprepitant as an Anticancer Drug
Sofia Perry, Senior, Biochemistry, LAS
(Research Mentor(s): David Shapiro, Biochemistry & Xinyi Dai, Biochemistry)

36. Exploring the Optimization of Extracellular PEFA Production in Rhodotorula Yeast Strains
Brooke Abel, Freshman, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Sujit Jagtap, Institute for Sustainability, Energy & Environment)

37. Mecha-ActiVatable Diverse Aggregation-Induced Emission Luminogens
Kecheng Wang, Junior, Chemistry, LAS
(Research Mentor(s): Jeffrey Moore, Chemistry)

38. MicroRNA: A Target for Treating Inflammation?
Noah Johnson, Parkland College
(Research Mentor(s): Chelsea Lloyd, Parkland College)

39. Pulmonary Dysfunction and Potential Therapy in C-IRIS Conditions
Lauren Kowalski, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Makoto Inoue, Comparative Biosciences)

40. Quantifying Vascular Endothelial Tight Junction Proteins in the Fetal Brain and Placenta during Maternal Immune Activation
Kate Murphy, Senior, Animal Sciences, ACES
(Research Mentor(s): Rafael Gonzalez-Ricon, Neuroscience Program & Adrienne Antonson, Animal Sciences)

41. Reconstruction of Exophageal Connectome of Pathogenic Heteroderia Glyceris
Abby Thompson, Junior, Integrative Biology, LAS
(Research Mentor(s): Nathan Schroeder, Crop Sciences & Jaeyeong Han, Crop Sciences)

42. SP-10 Protein is Conserved as Backup for Reproductive Success in Mice
Anastasia Pasynkov, Junior, Integrative Biology, LAS
(Research Mentor(s): Prabhakara Reddi, Comparative Biosciences)

43. Substrate Prediction for RiPP Biosynthetic Enzymes via Masked Language Modeling and Transfer Learning
Joseph Clark, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Xuenan Mi, Center for Biophysics & Quantitative Biology & Divakar Shukla, Chemical & Biomolecular Engineering)

44. The Production of Vitamin A in Hepatocytes Reduces Non-Alcoholic Fatty Liver Disease in Mice
Delaina Sigman, Senior, Food Science & Human Nutrition, ACES
(Research Mentor(s): Walter Monroy, Food Science & Human Nutrition & Jaume Amengual, Food Science & Human Nutrition)

45. Ultra-Structural Analysis of Synaptosomal-Complex Remodeling at Crossover Sites by Using DNA-PAINT MINFLUX Nanoscopy
Sasha Kakkassery, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Huanyu Qiao, Comparative Biosciences)

46. Validating microRNA Concentrations in Prostate Cancer Cell Lines to Correlate with Prostate Cancer Stage
Trisha Patnaik, Junior, Bioengineering, ENG
(Research Mentor(s): Siva Nalla, Bioengineering & Andrew Smith, Bioengineering)

47. Quantifying Myelin Microstructure in Histology with Supervised Deep Learning
Daniel Legowski, Senior, Integrative Biology, LAS
(Research Mentor(s): Daniel Miller, Evolution, Ecology & Behavior & Simran Singh, Evolution, Ecology & Behavior)

48. Analyzing the Relationship between Neighborhood Violence and PRMT6 Recruitment in Black Lung Cancer Patients
Hannah McGee, Sophomore, Molecular & Cellular Biology, LAS
(Research Mentor(s): Hannah Heath, Food Science & Human Nutrition & Zeynep Madak-Erdogan, Food Science & Human Nutrition)

PQ – Science & Technology
2:00 PM – 3:15 PM, Illini Room C

50. Alkylic C-H Amination with Secondary Arylamines
Andrew Yue, Senior, Chemistry, LAS
(Research Mentor(s): Brenna Budaitis, Chemistry & M. Christina White, Chemistry)

51. Analyzing Chaos and Symmetry in a random Linear Josephson Junction Array
Cliff Sun, Freshman, Engineering Physics, ENG
(Research Mentor(s): Alexey Bezryadin, Physics)

52. Audiogenic Seizure Susceptibility in Rodent Models of Genetically-distinct Autism Spectrum Disorders
Liz Soellner, Senior, Neuroscience, LAS
(Research Mentor(s): Benjamin Auerbach, Molecular & Integrative Physiology & Noelle James, Beckman Institute)

53. Cholinergic Modulation in Cognitive Performance
Holly Rudolph, Junior, Chemistry, LAS
(Research Mentor(s): Rachael Bell, Bioengineering)
54. Developing an Engineering Testbed for Analyzing Networked Cyber-Physical Systems
Parvati Menon, Junior, Computer Engineering, ENG
Waidat Bada, Junior, Computer Engineering, ENG
(Research Mentor(s): Ashish Kashinath, Computer Science & Kirill Levchenko, Electrical & Computer Engineering)

55. Effect of Caspase-1 Inhibition on Influenza Modulation of Experimental Autoimmune Encephalomyelitis
Ashley Wuebels, Junior, Animal Sciences, ACES
(Research Mentor(s): Andrew Steelman, Animal Sciences & Steven Kraudis, Nutritional Sciences)

56. Geometric Phase Control of Transport Kinetics
Karnika Purohit, Junior, Chemistry, LAS
(Research Mentor(s): Nancy Makri, Chemistry)

57. Grid Resiliency Assessment Using a Cross-Covariance Method for Electrical Load Classification
Rabbi Bassoubouh Ba Dimai, Parkland College
(Research Mentor(s): Roy McCann, University of Arkansas & Fred Felizco, University of Arkansas)

58. Optimizing a Hairy Root Transformation Pipeline in Pumpkin Utilizing an Ultraviolet Fluorescent Reporter
Kevin Rattin, Parkland College
(Research Mentor(s): Sarah Hind, Crop Sciences)

59. Insecurities in AI-Generated Code
Jo Mohan, Freshman, Computer Engineering, ENG
Litao Li, Sophomore, Computer Science, ENG
Nevin Thomas, Freshman, Computer Science, ENG
Sid Gurumurthi, Sophomore, Electrical Engineering, ENG
(Research Mentor(s): Lawrence Angrave, Computer Science)

60. Exploring Quantum Phase Slips in Superconducting Nanowire Single Photon Detectors
Harshvardhan Mantry, Senior, Physics, ENG
(Research Mentor(s): Alexey Bezryadin, Physics)

61. NMR Sensing Using Nitrogen Vacancy Centers in Diamond
Kyle Haggard, Junior, Chemistry, LAS
(Research Mentor(s): Mikael Backund, Chemistry & David Durden, Chemistry)

62. quAPL-V: Formal Verification in an Array Programming Language-Based Quantum Library
Bach Hoang, Sophomore, Mathematics, LAS
(Research Mentor(s): Santiago Nunez Corrales, National Center for Supercomputing Applications & Phuong Cao, National Center for Supercomputing Applications)

63. Review of Approaches to Modeling of Waste Resources Recovery Facilities
Martin Xu, Freshman, Electrical Engineering, ENG
(Research Mentor(s): Ga-Yeong Kim, Civil & Environmental Engineering)

64. Student Perceptions of the Acceptability of Generative AI Use in the Classroom
Sneha Chaliki, Sophomore, Computer Science, ENG
(Research Mentor(s): Silas Hsu, Computer Science)

65. Studying Quark-Gluon Plasma through New Oxygen Collisions at LHC
Prerana Singh, Junior, Physics, ENG
(Research Mentor(s): Anne Sickles, Physics)

66. The Synthesis and Isolation of Isomerically Pure Norbornenes
Yating Feng, Junior, Chemistry, LAS
(Research Mentor(s): Keelee McLeary-Petersen, Chemistry & Damien Guironnet, Chemical & Biomolecular Engineering)

67. Wrinkling-Resistant Dielectric Layers for Stretchable FETs
Grace Smith, Senior, Mechanical Engineering, ENG
(Research Mentor(s): Kevin Zhao, Electrical & Computer Engineering & Hyunchul Kim, Mechanical Science & Engineering)

PR – Design Thinking & Innovation
2:00 PM – 3:15 PM, Illini Room C

68. “The Issue is Horsepower and Battery Life”: Farmers’ Perceptions of Electric Tractors
Olivia Charles, Senior, Agricultural Communications, ACES
(Research Mentor(s): Amy Leman, Agricultural Leadership, Education & Communications)

69. Archival Analysis of Bathing Challenges Faced by Older Adults with Mobility Disabilities
Ethan Mudd, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Elena Remillard, Georgia Institute of Technology & Wendy Rogers, Kinesiology & Community Health)

70. Broth-Based Biomaterial Cultivation: Enhancing Fabrication with a Closed-Loop System
John Puthiarambil, Sophomore, Electrical Engineering, ENG
(Research Mentor(s): Cesar Torres, University of Texas at Arlington)

71. Characterization of Biodegradable Fiber-Reinforced Protein-Based Pneumatic Actuators
David Wilcoo, Junior, Bioengineering, ENG
(Research Mentor(s): Holly Golecki, Bioengineering & Sandra Edward, Bioengineering)

72. Design and Creation of a Soft Spring in Equilibrium for Twisted and Coiled Polymer Actuators
Shreyas Malladi, Freshman, Mechanical Engineering, ENG
(Research Mentor(s): Qiong (Joan) Wang, Mechanical Science & Engineering)

73. Designing Inclusive Bioinstrumentation Laboratory Courses through Equity Minded Teaching and Participatory Action Research
Megha Agrawal, Junior, Bioengineering, ENG
Kaitlyn Faith Tuvilleja, Sophomore, Bioengineering, ENG
(Research Mentor(s): Rebecca Reck, Bioengineering)
74. Elastic Cross Section of Tin Ions in an Extreme Ultraviolet Lithography Source
Jack Gerrity, Freshman, Nuclear, Plasma & Radiological Engineering, ENG
(Research Mentor(s): Nathan Bartlett, Nuclear, Plasma & Radiological Engineering)

75. Tailoring the Interface: Norbornene Functionalization of Carbon Fiber for Prontally Cured Composites
Warren Wellington, Sophomore, Materials Engineering, ENG
(Research Mentor(s): Tyler Price, Beckman Institute & Nancy Sottos, Materials Science & Engineering)

76. Human-Centered Design in Optimizing Fitness Benches
Shuoning Shi, Junior, Industrial Design, FAA
(Research Mentor(s): Suresh Sethi, Industrial Design)

77. MIXR: An Academia-Industry Consortium for the Design and Development of Biomedical Extended Reality Technologies
Bilal Karim, Junior, Neuroscience, LAS
(Research Mentor(s): Irfan Ahmad, Biomedical & Translational Sciences & Mark Cohen, Biomedical & Translational Sciences)

78. Spider Web Inspired Geogrids for Better Roads
Emanuel Peralta, Parkland College
(Research Mentor(s): Jiaojun Liu, Georgia Institute of Technology)

79. Motion Control, Planning, and Safety Enforcement in Autonomous Vehicles
Quan Vo, Junior, Mechanical Engineering, ENG
(Research Mentor(s): Lin Song, Mechanical Science & Engineering)

80. Application of 2.5D Topology Optimization in Medical Microtools
Eric Nieto Gonzalez, Senior, Electrical Engineering, ENG
(Research Mentor(s): Holly Golecki, Bioengineering & Tom Golecki, Mechanical Engineering)

PS – Nature, Life & Environment
2:00 PM – 3:15 PM, South Lounge

85. Analyzing Thin Sections of the Bushveld Igneous Complex of South Africa
Avery Melrose, Junior, Geology, LAS
(Research Mentor(s): Craig Lundstrom, Earth Science & Environmental Change)

86. Association between Indoor Particulate Matter Exposure and Childhood Adiposity
Tanya Karwande, Junior, Community Health, AHS
(Research Mentor(s): Sheena Martinus, Kinesiology & Community Health & Alice Olso, Kinesiology & Community Health)

87. Controversies in Sustainable Development
Steven Wu, Freshman, Information Sciences + Data Science, SIS
(Research Mentor(s): Hannah Smith, School of Information Sciences & Jodi Schneider, School of Information Sciences)

88. Deep-Sea Mining in the Clarion-Clipperton Zone
Anna Logan, Senior, Agricultural & Consumer Economics, ACES
(Research Mentor(s): Lucinda Cole, English)

89. Determining Paternity of a Southern White Rhino Calf Using Microsatellite DNA Analysis
Emma Schmidt, Sophomore, Integrative Biology, LAS
(Research Mentor(s): Yasuko Ishida, Animal Sciences & Al Roca, Animal Sciences)

90. Estimating Photosynthetic Parameters of Maize Plants with PPDK Over-Expression Using Leaf Hyperspectral Reflectance
Jane Fornes, Sophomore, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Lisa Ainsworth, Plant Biology & Michelle Zambrano, Plant Biology)

91. Genetic Screen for Genes Involved in Photoprotection in Arabidopsis
Nicholas Lisa, Senior, Integrative Biology, LAS
Gerardo Amaro, Senior, Integrative Biology, LAS
(Research Mentor(s): Steven Burgess, Plant Biology)

92. Grass Interactions in Restored Prairie Systems, Part 1: Exploring Bee-Grass Relationships
Jacob Chow, Senior, Integrative Biology, LAS
Jessamine Brit, Junior, Integrative Biology, LAS
Sophia Gardner, Junior, Natural Resources & Environmental Sciences, ACES
Jacob Burns, Senior, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Alex Harmon-Threatt, Entomology & Anthony Yannarel, Natural Resources & Environmental Sciences)

93. Grass Interactions in Restored Prairie Systems, Part 2: Biomass and Mycorrhizal Colonization
Sophia Gardner, Junior, Natural Resources & Environmental Sciences, ACES
Jacob Burns, Senior, Natural Resources & Environmental Sciences, ACES  
Jessamine Britt, Junior, Integrative Biology, LAS  
Jacob Chow, Senior, Integrative Biology, LAS  
(Research Mentor(s): Alex Harmon-Threatt, Entomology & Tony Yannarell, Natural Resources & Environmental Sciences)

94. Impact of the Social Environment on Male Bluefin Killifish Fin Growth  
Jolene Blodgett, Junior, Natural Resources & Environmental Sciences, ACES  
Daniele Baranauskaite, Junior, Biology, LAS  
Edith Smelko, Junior, Integrative Biology, LAS  
(Research Mentor(s): Alex Harmon-Threatt, Entomology & Tony Yannarell, Natural Resources & Environmental Sciences)

95. Increasing Nitrogen Sustainability through Microbial Inoculation and Carbon Addition  
Madeline Rathbun, Senior, Crop Sciences, ACES  
Emma Schnitzler, Sophomore, Natural Resources & Environmental Sciences, ACES  
(Research Mentor(s): Angela Kent, Natural Resources & Environmental Sciences & Isaac Klimasmith, Crop Sciences)

96. Influence of Melatonin on the Successful Infection of Daphnia dentifera by Metschnikowia Bicuspidata  
Ashley Hughes, Senior, Integrative Biology, LAS  
(Research Mentor(s): Carla Cáceres, Evolution, Ecology & Behavior)

97. Intensification Processes Inherent to the 2011 Joplin Merger Event  
Morgan Siers, Senior, Atmospheric Sciences, LAS  
(Research Mentor(s): Brian Jewett, Climate, Meteorology & Atmospheric Sciences)

98. Maize in Distress: Analyzing Volatile Organic Compounds under Varying Herbivory Stress Intensities  
Jesus Vallesjo, Junior, Integrative Biology, LAS  
(Research Mentor(s): Esther Ngunbi, Entomology)

Kayleigh Excell, Senior, Physics, ENG  
(Research Mentor(s): Brian Fields, Astronomy)

100. Measuring the Impact of Heat on Wolbachia Pipientis in Culex Pipiens Mosquito  
Nina Shearrill, Senior, Integrative Biology, LAS  
(Research Mentor(s): Carla Cáceres, Evolution, Ecology & Behavior & Becky Cloud, Program in Ecology, Evolution & Conservation Biology)

101. Mobilization of Redox Active Elements in Coal Ash in Varying Redox Conditions  
Natalie Towle, Freshman, Chemistry, LAS  
(Research Mentor(s): Hannah Veldhuizen, Earth Science & Environmental Change)

102. Nest Integration: A Novel Form of Food Acquisition by Altricial Fledglings  
Erika Huerta, Senior, Integrative Biology, LAS  
(Research Mentor(s): Facundo Fernandez-Duque, Evolution, Ecology & Behavior)

103. Odonata Species Co-Occurrence and Metacommunity Patterns in Artificial Pondsckapes  
Suhani Peramurlu, Sophomore, Integrative Biology, LAS  
(Research Mentor(s): Jason Bried, Illinois Natural History Survey)

104. Predicting Rusty Patched Bumblebee (Bombus affinis) Presence Using Non-Target Bumblebee Occurrence and Abundance  
Ella Huller, Junior, Integrative Biology, LAS  
(Research Mentor(s): Jason Bried, Illinois Natural History Survey)

105. Real-Time Pyrocumulonimbus (PyroCB) Monitoring Using Satellite and Radar  
Jacob Vile, Senior, Atmospheric Sciences, LAS  
(Research Mentor(s): Adrien Guyot, University of Queensland & Hamish McGowan, University of Queensland)

106. Review and Comparison of Agritourism between Illinois Counties  
Viktoriya Dragnevskaya, Sophomore, Agricultural & Consumer Economics, ACES  
(Research Mentor(s): Renata Endres, Agricultural & Consumer Economics & Bryan Endres, Agricultural & Consumer Economics)

107. Novel Behavioral Assays Reveal Individual Differences in Anemonefish  
Gabriel Graham, Junior, Psychology, LAS  
(Research Mentor(s): Justin Rhodes, Psychology)

108. Spatial Models of Evolutionary Dynamics  
Seokhwan Moon, Senior, Mathematics, LAS  
(Research Mentor(s): Daniel Cooney, Mathematics)

109. Stress Response across Tadpole Development  
Wannie Mobo, Parkland College  
(Research Mentor(s): Lisa Surber-Cunningham, Evolution, Ecology & Behavior)

110. The Effect of Imidacloprid on the Expression of Steroidogenic Genes in the Mouse Ovary  
Winter Stubblefield, Senior, Integrative Biology, LAS  
(Research Mentor(s): Vasiliki Mourikes, Comparative Biosciences & Jodi Flaws, Comparative Biosciences)

111. The Ontogeny of Aggression in Poison Frog Tadpoles  
Katharine Klugman, Junior, Integrative Biology, LAS  

Audrey Frost, Sophomore, Agricultural & Biological Engineering, ACES  
(Research Mentor(s): Rabin Bhattacharai, Agricultural & Biological Engineering & Hongxu Zhou, Agricultural & Biological Engineering)
113. Trends in Arctic Sea Ice Concentration Trends and Implications for Shipping
Zachary Takiff, Senior, Computer Science, ENG
(Research Mentor(s): Ryan Sriver, Climate, Meteorology & Atmospheric Sciences)

114. Visualizing Pennsylvanian Coal Balls Using High-Resolution Microscopy
Sarah Johnson, Junior, Integrative Biology, LAS
Kaybric Camp, Junior, Integrative Biology, LAS
Jacob Chow, Senior, Integrative Biology, LAS
(Research Mentor(s): Scott Lakeram, Plant Biology & Surangi Punyasena, Plant Biology)

115. Watershed-scale Analysis of Soil Moisture Content Modeling and Proxies
Kyle Baldwin, Senior, Natural Resources & Environmental Sciences, ACES
(Research Mentor(s): Sam Stickley, Natural Resources & Environmental Sciences)

116. Investigating the Neural Correlates of Winning and Losing in Poison Frog Tadpoles
Lucas Jimenez, Sophomore, Integrative Biology, LAS
(Research Mentor(s): Eva Fischer, Evolution, Ecology & Behavior)

PT – Health & Wellness
3:45 PM – 5:00 PM, Illini Room A

1. Assessing the Benefits of a Technology-Based Social Engagement Program for Care Partners of Persons with Dementia
Sylvia Merz, Sophomore, Psychology, LAS
Melinda Jara, Junior, Speech & Hearing Science, AHS
(Research Mentor(s): Raksha Mudar, Speech & Hearing Science)

2. Effectiveness of CKD Screening Program Using Proteinuria Test Strips among Marginalized Populations
Jasmine Bonsu, Senior, Integrative Biology, LAS
(Research Mentor(s): Kenneth Willund, Kinesiology & Community Health)

3. Climate Change and Chronic Conditions: Crafting New Exercise Paradigms
Angela Chahine, Sophomore, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Sean Mullen, Kinesiology & Community Health)

4. Depression Severity and Micronutrient Status among College Students: A Pilot Study
Nicoletta Spiliopoulos, Sophomore, Undeclared, DGS
Anna Zlatic, Sophomore, Dietetics & Nutrition, ACES
Samantha Golemba, Junior, Dietetics & Nutrition, ACES
Avery Andersen, Junior, Dietetics & Nutrition, ACES
(Research Mentor(s): Elizabeth Brandley, Nutritional Sciences)

5. Disparities in Medication Adherence among Patients with Type II Diabetes
Jennifer Lahey, Senior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Hyojung Kang, Kinesiology & Community Health)

6. Engaging Older Adults with Disabilities from Racial/Ethnic Minorities in Research
Fatima Pantoja Lara, Freshman, Community Health, AHS
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health & Elena Remillard, Georgia Institute of Technology)

7. Evaluating Quantitative Methods for Neuroimaging to Improve Identification of Risk Factors for Post Traumatic Epilepsy
Dajana Ducic, Senior, Psychology, LAS
(Research Mentor(s): Aaron Anderson, Beckman Institute)

8. Exploring the Synergistic Function of Dietary/ Macular Carotenoids and Lipids on Attentional Inhibition in Children
Sophia Ramos, Junior, Biology, LAS
Cezette Merza, Sophomore, Creative Writing, LAS
(Research Mentor(s): Naiman Khan, Kinesiology & Community Health & Charlotte Román, Neuroscience Program)

9. How Do Male Calls in Mimic Poison Frogs Reflect Biparental Care?
Lauren Lindstrom, Junior, Integrative Biology, LAS
(Research Mentor(s): Eva Fischer, Evolution, Ecology & Behavior)

10. Latina and Latino Experts’ Perceptions of Activity-Friendly Routes to Everyday Destinations
Kate Gronlund, Freshman, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Mariela Fernandez, Recreation, Sport & Tourism & Kshitij Tewari, Recreation, Sport & Tourism)

11. Mind Matters in Motion: Unraveling Affective Responses in High-Intensity Interval Training
Elizabeth Martinez, Junior, Kinesiology, AHS
Aubrey Cervantes, Junior, Kinesiology, AHS
(Research Mentor(s): Steven Petruzzello, Kinesiology & Community Health & Jonathan North, Kinesiology & Community Health)

12. Mindfulness Interventions for Building Resilience in People with Multiple Sclerosis (MS): A Scoping Review
Anika Gurbani, Junior, Molecular & Cellular Biology, LAS
Adelina Grindeanu, Junior, Molecular & Cellular Biology, LAS
(Research Mentor(s): Chung-Yi Chiu, Kinesiology & Community Health & Vaishnavi Sridharan, Kinesiology & Community Health)

13. Multiple Sclerosis Informal Caregivers
Mobolanle Salawu, Sophomore, Community Health, AHS
Atlas Pilchen, Sophomore, Interdisciplinary Health Sciences, AHS
Brianna Roberson, Sophomore, Community Health, AHS
Gracie Laury, Freshman, Psychology, LAS
(Research Mentor(s): Chiu Chang, Disability Studies & Xiaolei Tang, Disability Studies)

14. Perceived Barriers to Healthcare for Spanish-Speaking Chronic Kidney Disease Patients and Caregivers
Michelle Martinez, Junior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Andiara Schwingel, Kinesiology & Community Health & Sadia Anjum Ashrafi, Kinesiology & Community Health)

Emma Darbro, Junior, Brain & Cognitive Science, LAS
(Research Mentor(s): Karen Tabb-Dina, Social Work & Xavy Ramirez, Social Work)

UNDERGRADUATE RESEARCH WEEK   APRIL 21 - 27, 2024
16. RespiRA+: A Culturally-tailored Yoga and Mindfulness Program to Decrease Psychological Distress and Increase Physical Activity among Latina Adolescents  
Maritza Concepcion, Junior, Community Health, AHS  
(Research Mentor(s): Yuliana Soto, Kinesiology & Community Health)

17. Role of Exercise-Induced Exosomes on Adult Hippocampal Neurogenesis  
Prithika Ravi, Junior, Brain & Cognitive Science, LAS  
Dan Rosu, University High School  
(Research Mentor(s): Justin Rhodes, Psychology & Meghan Connolly, Neuroscience Program)

18. Scoping Review of Communication in a Work Context in People with Multiple Sclerosis  
Emily Jiang, Junior, Psychology, LAS  
Lani Salawu, Sophomore, Community Health, AHS  
Sabrina Fellinger, Freshman, Theatre, FAA  
Justice Howard-Lee, Junior, Community Health, AHS  
Nurudeen Salaudeen, Junior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Chung-Yi Chiu, Kinesiology & Community Health & Xiaolei Tang, Kinesiology & Community Health)

19. The Benefits of Physical Therapy for Children with Cerebral Palsy Go Beyond Treatment: Indirect Impact of 24-hour Movement Behaviors  
Bianca Alfaro, Junior, Kinesiology, AHS  
(Research Mentor(s): Rafael Tasitsiano, Kinesiology & Community Health)

20. Asian/Asian Americans’ Experiences with Loss of Face Worsened Anxiety Symptoms during the COVID-19 Pandemic  
Mia Nieto, Junior, Psychology, LAS  
(Research Mentor(s): Chenhao Zhao, Psychology & Carla Hunter, Psychology)

21. The Influence of Dysphagia on Eating Behaviors in Individuals with Multiple Sclerosis: A Literary Review  
Delaney Bach, Senior, Interdisciplinary Health Sciences, AHS  
Natasha Cheema, Senior, Interdisciplinary Health Sciences, AHS  
(Research Mentor(s): Chung-Yi Chiu, Kinesiology & Community Health & Vaishnavi Sridharan, Kinesiology & Community Health)

22. Urinalysis Device  
Soundarya Sivakumar, Sophomore, Bioengineering, ENG  
Renee Bhanvadia, Sophomore, Bioengineering, ENG  
Rey Jain, Sophomore, Bioengineering, ENG  
Zedong Hao, Sophomore, Systems Engineering & Design, ENG  
Asmaa Mansour, Freshman, Bioengineering, ENG  
(Research Mentor(s): Jenny Amos, Bioengineering)

23. Understanding the Preferences of Older Adults in Using Virtual Reality to Support Social Engagement  
Afnaan Afzar Ali, Junior, Community Health, AHS  
(Research Mentor(s): Wendy Rogers, Kinesiology & Community Health & George Mois, Kinesiology & Community Health)

PU – Education, Learning & Human Development  
3:45 PM – 5:00 PM, Illini Room A

25. A Pilot Evaluation of a Transition Services Instructional Program for Youth with Intellectual and Developmental Disabilities  
Warren Jodjana, Sophomore, CS + Geography & Geographic Information Science, LAS  
(Research Mentor(s): Megan Best, Special Education)

26. Analysis of Academic Testing Methods and Intrinsic Student Motivation  
Kajal Patel, Sophomore, Computer Science, ENG  
(Research Mentor(s): Geoffrey Herman, Computer Science)

27. Assessment Preferences and Accommodations: A Comparative Study in the Classroom  
Yusra Ansari, Sophomore, Nutrition & Health, ACES  
Sinan Anwar, Sophomore, Interdisciplinary Health Sciences, AHS  
Valerie Weinschneider, Sophomore, Interdisciplinary Health Sciences, AHS  
Brian Hanus, Senior, Agricultural & Consumer Economics, ACES  
(Research Mentor(s): Toni Marie Gist, Food Science & Human Nutrition)

28. Data Science Clicker  
Megan Ja, Senior, CS + Economics, LAS  
Emily Ho, Junior, Computer Science + Geography & Geographic Information Science, LAS  
(Research Mentor(s): Wade Fagen-Ulmschneider, Computer Science & Karle Flanagan, Statistics)
29. Developing Content Acquisition Podcasts to Support Administrator Support for and Understanding of Adapted Physical Education
Klayton Donoghue, Senior, Kinesiology, AHS
(Research Mentor(s): Kevin Richards, Kinesiology & Community Health)

30. Developing Inclusive Outreach Materials in Mathematics
Jane Pak, Junior, Mathematics, LAS
Yuri Chen, Junior, Mathematics, LAS
Chen-Wei Chou, Senior, Mathematics, LAS
Anmol Shah, Freshman, Computer Engineering, ENG
(Research Mentor(s): Karen Mortensen, Mathematics & Ada Stelzer, Mathematics)

31. Enhancing Learning through AI-Driven Summarization and Segment Extraction
Ruiqing Yu, Senior, CS + Statistics, LAS
(Research Mentor(s): Lawrence Angraves, Computer Science)

32. Expanding the Impact of MicroCredentials@Illinois with Self-Service Issuance for Verified Professors
Lauren Hyde, Freshman, Computer Science, ENG
Michelle Ru, Sophomore, Computer Science + Chemistry, LAS
(Research Mentor(s): Wade Fagen-Ulmschneider, Computer Science & Karle Flanagan, Statistics)

33. Exploring Case-Based Learning and Leadership Learning Outcome in UIUC Bioengineering Master’s Program
Otniel Fernandez, Senior, Information Sciences, SIS
Felicity Tuan, Junior, Accountancy, BUS
(Research Mentor(s): Olivia Cioado, Bioengineering)

34. Exploring Strategies Used by Undergraduate French Learners in Critical Literacies Education: A Qualitative Study
Lydia Oesterling, Freshman, Linguistics, LAS
(Research Mentor(s): Julia Gorham, French & Italian)

35. Exploring the Influence of Personality on Learning Statistics
Priyadharshini Sriramath, Senior, Psychology, LAS
Aparajita Vemuri, Senior, Psychology, LAS
(Research Mentor(s): V. N. Vimal Rao, Statistics)

36. Lived Experiences of Students with Disabilities
Finn Diffenderfer, Freshman, Secondary Math Education, EDU
(Research Mentor(s): Emily Tarconish, Special Education)

37. Peer Review of a Peer Review Training Resource: A Case Study with Undergraduate Students
Samuele Longo, Sophomore, Philosophy, LAS
(Research Mentor(s): Janaynne Carvalho do Amaral, School of Information Sciences)

38. Redefining Education Through Emergent Curriculum: Exploring the Impact of Reggio Emilia-Inspired Practices on Student Engagement and Intrinsic Motivation in Grades 2-5
Ryan McMahon, Freshman, Secondary Education, EDU
(Research Mentor(s): Ali Lewis, University Primary School)

39. Strategies and Experiences of Students with ADHD and Teachers in Elementary and Secondary Education
Kathryn Riesing, Freshman, Secondary Education, EDU
Beata Graca, Freshman, Elementary Education, EDU
(Research Mentor(s): Cheryl Light Shriner, Special Education)

40. Study of the Relationship between Time and How It Impacts Student’s Perceived Leadership Behaviors
Lucy Moss, Sophomore, Agricultural Leadership, Education, & Communications, ACES
Canyn Borntrager, Junior, Agricultural Leadership, Education, & Communications, ACES
(Research Mentor(s): David Rosch, Agricultural Leadership, Education & Communications & Madison Michels, Agricultural Leadership, Education & Communications)

41. The Correlations between Parent’s Goals and Parenting Practices: Context as the Moderator
Lening Liu, Junior, Psychology, LAS
(Research Mentor(s): Jiawen Wu, Psychology)

42. The Effects of Parent Involvement on a Student’s Self Regulated Learning during Online Learning
Jada Jacobson, Freshman, Elementary Education, EDU
(Research Mentor(s): Jon Hale, Education Policy, Organization & Leadership)

43. The Implementation of Culturally Responsive Pedagogy for Inclusive Curriculums
Emily Castillo, Sophomore, English, LAS
(Research Mentor(s): Christopher Getowicz, Education Policy, Organization & Leadership)

44. Transforming the Way We Learn
Maksymilian Noga, Senior, Strategic Business Development & Entrepreneurship, BUS
(Research Mentor(s): Judith White, Business Administration)

45. Understanding How Teacher and Students Use Multiple Channels to Support Student’s Fraction Learning
Junmee Park, Freshman, CS + Education, EDU
(Research Mentor(s): Tiffany Reyes Denis, Educational Psychology)

PV – Social Science & Human Behavior
3:45 PM – 5:00 PM, Illini Room C

50. An Analysis of Interest Group Alliances and In-Group Behavior
Kate Garton, Sophomore, Political Science, LAS
Martha Sulzen, Sophomore, Political Science, LAS
(Research Mentor(s): Søren Warland, Political Science)

51. Cued Task Switching in Young Adults
Natalia Rzepa, Senior, Speech & Hearing Science, AHS
Holly Panfil, Senior, Speech & Hearing Science, AHS
(Research Mentor(s): Raksha Mudar, Speech & Hearing Science)

52. Developing A System to Report Indoor Environment and Dietary Data for Study Participants
Vinh Vo, Senior, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Sheena Martenies, Kinesiology & Community Health)
53. Elicitation of Pleasurable Emotions through Activity Engagement
Jasmine Jacobson, Senior, Psychology, LAS
(Research Mentor(s): Howard Berenbaum, Psychology)

54. Entrainment to Naturally and Rhythmically Spoken Speech: Effect of Age and Hearing Loss
Brittany Ruhlmann, Sophomore, Kinesiology, AHS
(Research Mentor(s): Dan Fogerty, Speech & Hearing Science)

55. Examining the Social Networks of LGB and Heterosexual Sexual Assault Survivors
Yichen Wang, Sophomore, Gender & Women’s Studies, LAS
(Research Mentor(s): Allyson Blackburn, Psychology)

56. Exploring Diverse Experiences with Anger among Incarcerated Women
Christine Kwon, Senior, Social Work, SSW
(Research Mentor(s): Rachel Garthe, Social Work)

57. How Does America Conceptualize Democracy?
Rhea Dcosta, Freshman, Science + Data Science, BUS
(Research Mentor(s): Seongjoon Ahn, Political Science)

58. Identifying Important Identities: What Individuals Value in Themselves and Others
Isabel Escapa, Junior, Psychology, LAS
Sam Ya, Freshman, Psychology, LAS
(Research Mentor(s): Isaiah Rose Raynal, Political Science)

59. Intercommunication between Resident and Patient Using Communication Accommodation Theory
William Monroe, Junior, Communication, LAS
Aranya Adams, Sophomore, Psychology, LAS
(Research Mentor(s): Lisa Guntzviller, Communication & Lindsay Kelpinski, Communication)

60. Online Adult Entertainment Platforms: Understanding Motivations and Differences between the Users and Non-Users
Claire Grossen, Freshman, Interdisciplinary Health Sciences, AHS
(Research Mentor(s): Sohyeon Kim, Recreation, Sport & Tourism & Liza Berdychevsky, Recreation, Sport & Tourism)

61. The Association between Parental Alcohol Use Disorder and Offspring Personality Traits: A Study of Young Adults
Yujung Son, Senior, Psychology, LAS
(Research Mentor(s): Catharine Fairbairn, Psychology & Rosalie Ruhlmann, Psychology)

62. The Effect of Family Conflict and Cohesion on Adolescent Risk-Taking
Melanie Gomez, Senior, Psychology, LAS
(Research Mentor(s): Ava Briley, Psychology)

63. The Effects of Sexual Education Experiences and Personality on Sexual Communication Behaviors
Kristen Gates, Senior, Psychology, LAS
(Research Mentor(s): Emily Mendelson, Communication & John Caughlin, Communication)

64. The Effect of Family Conflict and Cohesion on Adolescent Risk-Taking
Melanie Gomez, Senior, Psychology, LAS
(Research Mentor(s): Ava Briley, Psychology)

65. Travel and Tourism; Social Science and Human Behavior
Kennedi Foster, Sophomore, Psychology, LAS
(Research Mentor(s): Joelle Soulard, Recreation, Sport & Tourism & Zack Russell, Recreation, Sport & Tourism)

PW – Science & Technology
3:45 PM – 5:00 PM, Illini Room C

68. Developing a Platform for Integration of Photoacoustic Imaging with Ultrasound Neurostimulation
Naphat Siripun, Freshman, Mechanical Engineering, ENG
(Research Mentor(s): Shensheng Zhao, Electrical & Computer Engineering)

69. Development of a Particle-in-Cell Scheme in Python for Research in Computational Plasma
Tyler Heaney, Senior, CS + Philosophy, LAS
(Research Mentor(s): Md Fazul Huq, Nuclear, Plasma & Radiological Engineering)

70. Development of an Automated BioModel Selection System for Synthetic Biology Gene Circuit Design
Michelle Zeng, Sophomore, Bioengineering, ENG
(Research Mentor(s): Poh Chueh Loo, National University of Singapore)

71. Effects of Age, Hearing Loss, and Test Modality on Memory for Backward Digits
Megan Thing, Freshman, Speech & Hearing Science, AHS
(Research Mentor(s): Daniel Fogerty, Speech & Hearing Science)

72. Exploring Dynamic Mechanical Analysis (DMA) Set-Up: Expanding Frequency Range and Improving Performance
Hunwoo Kwon, Junior, Mechanical Engineering, ENG
Myung Jung, Senior, Engineering Mechanics, ENG
(Research Mentor(s): Kathryn Matlack, Mechanical Engineering & Science & Nusrat Jahan Salim, Mechanical Engineering & Science)

73. Flashing Automatic Contour Tracer (FACT): A Novel Electron Cutout Digitization Method for Radiation Therapy
Siddhant Sen, Freshman, Brain & Cognitive Science, LAS
(Research Mentor(s): Jooyoung Sohn, University of Chicago)

74. Ground State Energy of Hydrogen Using Variational Monte Carlo
Aman Jhurani, Freshman, Engineering Mechanics, ENG
(Research Mentor(s): Shubhang Goswami, Physics)

75. Leveraging Virtual Reality to Facilitate Cognitive Engagement
Drutu Rajesh, Sophomore, Systems Engineering & Design, ENG
(Research Mentor(s): George Mois, Kinesiology & Community Health)

76. Machine Learning Dopant Energetics in Organic Semiconductors
Reesa Cailey Espera, Sophomore, Chemical Engineering, LAS
(Research Mentor(s): Archana Verma, Chemical & Biomolecular Engineering & Nicholas Jackson, Chemistry)

77. Metals, Microbes, Metabolism.
Neha Siram, Freshman, Biology, LAS
Nikhil Cowart, Sophomore, Chemistry, LAS
Alexandra Mazur, Sophomore, Chemistry, LAS
(Research Mentor(s): Anastasia Manesis, Chemistry)
78. Modeling the Endosome to Understand the Membrane Fusion Mechanism of LNP-Mediated RNA Delivery  
Alice Gao, Junior, Materials Engineering, ENG  
(Research Mentor(s): Cecilia Leal, Materials Science & Engineering)

79. Serial Measurement of Fecal Calprotectin in Healthy Horses Administered the NSAID Phenylbutazone  
Nidhi Shanthappa, Freshman, Neuroscience, LAS  
(Research Mentor(s): Rebecca Bishop, Comparative Biosciences)

80. Simulating the Loss Functions of Aerosol Particles Using PyPartMC  
Leeanne Smith, Senior, Atmospheric Sciences, LAS  
(Research Mentor(s): Nicole Riemer, Climate, Meteorology & Atmospheric Sciences & Zach D’Aquino, Climate, Meteorology & Atmospheric Sciences)

81. Harnessing Instabilities during Frontal Ring-Opening Metathesis Polymerization for Spontaneous Material Patterning  
Amanda Watson, Sophomore, Chemical Engineering, LAS  
(Research Mentor(s): Anna Cramblitt, Materials Science & Engineering)

82. Multi-scale Morphology Control of 3D Printed Structures Using Frontal Polymerization  
Elli Lu, Freshman, Chemistry, LAS  
(Research Mentor(s): Pranav Krishnan, Materials Science & Engineering)

83. Usability Testing of a Digital Medication Self-Management Tool for Persons with Mild Cognitive Impairment  
Alexa Worthley, Freshman, Interdisciplinary Health Sciences, AHS  
Sneha Nippani, Freshman, Neuroscience, LAS  
Zoe Wang, Freshman, Statistics, LAS  
(Research Mentor(s): Raksha Mudar, Speech & Hearing Sciences & Eliza Baby, Speech & Hearing Science)

84. Characterizing Archaeal Viruses from Yellowstone Hot Springs  
Catherine Koterba, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Changyi Zhang, Carl R. Woese Institute for Genomic Biology)

85. 3D Printing Gelatin Droplets for Micromolecule Delivery  
Zoyia Khan, Sophomore, Bioengineering, ENG  
(Research Mentor(s): Genesis Rios-Adorno, Chemical & Biomolecular Engineering & Brendan Harley, Chemical & Biomolecular Engineering)

86. A Machine Learning Approach to Reaction Optimization for Automated Synthesis  
Soﬁa Sivilotti, Junior, CS + Chemistry, LAS  
(Research Mentor(s): Nick Jackson, Chemistry)

87. A Novel Biosensor for Quantifying Traction Force and Stiffness in 3D Cell-ECM Tissues  
Aja Phan, Junior, Mechanical Engineering, ENG  
(Research Mentor(s): Bashar Emon, Mechanical Science & Engineering & Taher Saif, Mechanical Science & Engineering)

88. Exploring B-ionone’s Inﬂuence on Macrophage Phenotype  
Kriti Maiya, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Jaume Amengual, Food Science & Human Nutrition & Colin Xiao, Food Science & Human Nutrition)

89. Analyzing Tumor Heterogeneity in Liver Speciﬁc ER+ Metastatic Breast Cancer  
Nandana Varma, Freshman, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Zeynep Madak-Erdogan, Food Science & Human Nutrition & Jin Young Yoo, Food Science & Human Nutrition)

90. Assessing Glioblastoma Migration in Gelatin Maleimide Granular Hydrogels  
Joel Kattoor, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Brittany Payan, Chemical & Biomolecular Engineering)

91. Bacteriophage and Bacterial Defense Discovery for Applications in Phage Therapeutics  
Catherine La, Junior, Integrative Biology, LAS  
Prakriti Shankar, Sophomore, Biochemistry, LAS  
(Research Mentor(s): Asma Hatoum-Aslan, Microbiology)

92. Burrowing Behavior as an Assessment for Disease Progression in a Syngeneic Mouse Model of Glioblastoma  
Julianna Padilla, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Payton Haak, Animal Sciences & Andrew Steelman, Animal Sciences)

93. Engineering Enzymes to Improve Photosynthetic Eﬃciency  
Hannah Rockwell, Junior, Agricultural & Biological Engineering, ENG  
(Research Mentor(s): Laurie Leonelli, Agricultural & Biological Engineering & Jake Harris, Agricultural & Biological Engineering)

94. Dark Induced Phosphorylation of Sorghum Rubisco Activase in Arabidopsis In-vivo  
Maxwell Straus, Sophomore, Integrative Biology, LAS  
(Research Mentor(s): Sarah Chung, Plant Biology)

95. Effects of Cell Concentration on Printability and Viability of Hydrogels  
Tara Mukherjee, Freshman, Chemical Engineering, ENG  
(Research Mentor(s): Genesis Rios-Adorno, Chemical & Biomolecular Engineering)

96. Exploring the Varied Modifications of CNF and DNT Toxins on RhoA GTPase  
Jacob Sowizral, Senior, Biology, LAS  
(Research Mentor(s): Brenda Wilson, Microbiology & Mengefi Ho, Microbiology)

97. Epoxidation of Camptotheca by Cytochrome P450  
Gordon Sara, Senior, Biochemistry, LAS  
(Research Mentor(s): Mary Schuler, Cell & Developmental Biology)

98. Exploring B-ionone’s Inﬂuence on Macrophage Phenotype  
Kriti Maiya, Junior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Jaume Amengual, Food Science & Human Nutrition & Colin Xiao, Food Science & Human Nutrition)

99. Exploring the Varied Modifications of CNF and DNT Toxins on RhoA GTPase  
Jacob Sowizral, Senior, Biology, LAS  
(Research Mentor(s): Brenda Wilson, Microbiology & Mengefi Ho, Microbiology)

100. Inﬂuenza A Virus during Pregnancy Disrupts Fetal Cortical Development in Mice  
Jiewen Chen, Senior, Integrative Biology, LAS  
(Research Mentor(s): Ashley Otero, Neuroscience Program & Adrienne Antonson, Animal Sciences)
101. Investigating the Mechanism of an Iron-Dependent Enzyme in Unusual Peptide Modifications  
Sumehra Taj, Junior, Chemistry, LAS  
(Research Mentor(s): Wilfred van der Donk, Chemistry & Jeff Chen, Chemistry)

102. Investigating the Role of Storage Lipids on Yeast Longevity  
Lydia Taylor, Senior, Materials Engineering, ENG  
(Research Mentor(s): Christopher Rao, Chemical & Biomolecular Engineering & Sujit Jagtap, Chemical & Biomolecular Engineering)

103. Laboratory-Reared Honey Bees Display Downregulated Brain Gene Expression Associated with Phototransduction  
Amy Gomez-Lopez, Junior, Crop Sciences, ACES  
(Research Mentor(s): Gene Robinson, Carl R. Woese Institute for Genomic Biology & Melissa E. Flores, Neuroscience Program)

104. Lactate Production in Schizophrenia Mouse Models: Effects of L-Lactate Treatment  
Erika Huerta, Senior, Integrative Biology, LAS  
(Research Mentor(s): Maltesh Kambali, Comparative Biosciences)

105. Metal Ion Abundance in Cystic Fibrosis Lungs Significantly Alters the Swarming Motility of Pseudomonas aeruginosa  
Gillian Krughoff, Sophomore, Chemistry, LAS  
(Research Mentor(s): Jonathan Sweedler, Chemistry & Joennis Marie Rosado-Rosa, Chemistry)

106. Optimization of the Method to Label Circulating Monocytes in Mice  
Eva Hu, Sophomore, Food Science & Human Nutrition, ACES  
(Research Mentor(s): Amparo Cirer, Food Science & Human Nutrition & Jaume Amengual, Food Science & Human Nutrition)

107. Quantifying Microglial Activation States & Standardizing Morphometric Analysis  
Katilyn Simmons, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Simran Singh, Evolution, Ecology & Behavior & Dan Miller, Evolution, Ecology & Behavior)

108. Small Molecule Mobilizers Outperform Chelators in Mitigating Neurodegeneration  
Patricia Madel, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Samantha Brown, Chemistry & Martin Burke, Chemistry)

109. Synthesis of Precursors and Ligands for Novel Multifunctional Theranostics for Alzheimer’s Disease  
Jazmin Garcia, Junior, Chemistry, LAS  
(Research Mentor(s): Liviu Mirica, Chemistry & Lali Gutierrez, Chemistry)

110. The Antioxidant Effect to Counter Radiation in Aging/Neurotoxicity Genes  
Faisal Ahmad, Senior, Psychology, LAS  
(Research Mentor(s): Catherine Alicia Best-Popescu, Bioengineering)

111. The Role of TipN, ParA, and DnaA-Mediated DNA Replication Initiation in Centromere Segregation  
Corey Trela, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Morgan Letzkus, Microbiology & Paula Mera, Microbiology)

112. Total Synthesis of the 4-Epinimbin, a Promising Anticancer Compound Derivative  
Vinny Pillai, Junior, Chemistry, LAS  
(Research Mentor(s): David Sarlah, Chemistry)

113. The Role of TipN, ParA, and DnaA-Mediated DNA Replication Initiation in Centromere Segregation  
Corey Trela, Sophomore, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Morgan Letzkus, Microbiology & Paula Mera, Microbiology)

115. Mechanism of Coexistence of Uninfected and Infected Pseudomonas aeruginosa in Cystic Fibrosis patients  
Ahmad Hassan, Senior, Molecular & Cellular Biology, LAS  
(Research Mentor(s): Jayadevi Chandrashekar, Institute for Genomic Biology & Laura Catherine Suttenfield, Institute for Genomic Biology)
The Image of Research is a multidisciplinary competition celebrating the diversity and breadth of undergraduate student research at the University of Illinois 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 – UR Edition is organized by the University Library and the Office of Undergraduate Research and is supported by a generous gift from the Teaching, Learning, and Academic Support unit in the University Library.

**2024 Competition Judges**
- Merinda Kaye Hensley, University Library
- Megan Tafalla, Library Student Worker, Orange Room
- Jenni Diaz Garcia, Graduate Assistant, University Library
- Chris Holmes, Office of Undergraduate Research
- Stephanie Luke, University Library
- Elizabeth Rockman, Campus Honors Program
- Mary Ton, University Library
- Trix Welch, Graduate Assistant, University Library

Each image you see in this section has an accompanying narrative. You can read the narratives that go along with each submission at: go.illinois.edu/IOR_Entries

**Effective, Safe, and Persevering**: A Novel Antibiotic, DDC 18-8A
Noah King, Senior, Integrative Biology Honors, LAS

**Visualizing the Unseen: Exploring Metal Nanoparticles through Transmission Electron Microscopy (TEM) and Automated Deposition Techniques**
Diana Pham, Senior, Mechanical Engineering, ENG

Queremos Vivir, No Sobrevivir
Melissa Rivera, Junior, Studio Art, FAA

Painting the Brain Red with mCherry
Lara Villano, Junior, Molecular & Cellular Biology, LAS

Aawww+
Dayanara Baez, Senior, Studio Art, FAA
Ode to Us

Londarius Hayes, Senior, Architecture, FAA

A Cosmic Dance: Binary Neutron Star Mergers

Rohan Narasimhan, Junior, Engineering Physics, ENG

Petals

Sujin Park, Junior, Art & Design, FAA

Juice WRLD Ceramic Art Tribute

Meyaz Hasan, Junior, Graphic Design, FAA

Revealing the Unseen: Visualizing Electron Dynamics in Graphene

Noor Elbanna, University High School

Don't Hit Your Head on the Ceiling Fan, 2024

Emma Haugh-Ewald, Senior, Studio Art, FAA

Fabulous Phages

Anne-Farah Usman, Senior, Molecular & Cellular Biology, LAS

To view past entries, please visit: go.library.illinois.edu/pastwinners
Celebrating Our Student Scholars

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

The Research Support Grant 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: go.illinois.edu/OUR_RSG

FALL 2023 Awardees:

Investigating the Cellular Localization Changes of Acetyl-CoA Synthetase 2 and Estrogen Receptor Alpha Upon Treatment with Fulvestrant and Acetyl-CoA Synthetase Inhibitor in Estrogen Receptor Positive Metastatic Breast Cancer Cell Lines

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

Extracting the Internal Quantum Efficiency of LEDs

**Jason Li**, Sophomore, Engineering Physics, ENG (Research Mentor(s): Can Bayram, Electrical & Computer Engineering)

Studying Quantum Phase Slips in Superconducting Nanowire Single Photon Detectors

**Harshvardhan Mantry**, Senior, Engineering Physics, ENG (Research Mentor(s): Alexey Bezryadin, Physics)

Probing the Tumor Microenvironment via Bioluminescent Logic-Gate Technology

**Lily Wenger**, Senior, Biochemistry, LAS (Research Mentor(s): Jefferson Chan, Chemistry)

Combining Jumping and Perching with a Tree-Jumping Robotic Squirrel

**Christopher Xu**, Junior, Electrical Engineering, ENG (Research Mentor(s): Justin Yim, Mechanical Engineering)

Combining Jumping and Perching with a Tree-Jumping Robotic Squirrel

**Jack Yan**, Senior, Mechanical Engineering, ENG (Research Mentor(s): Justin Yim, Mechanical Engineering)
Conference Travel Grant
The Conference Travel Grant 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 29 students in presentations of their scholarly and creative endeavors at a wide range of in-person and virtual conferences.

For more information, please visit: go.illinois.edu/OUR_CTG

RECENT WINNERS:

Integration of Blood-Derived and Brain-Derived Biomarkers for Predicting Stage 2 Remission Status in EMBARC Study Subjects with Major Depressive Disorder
Milica Barac, Senior, Bioengineering, ENG
(Research Mentor: Arjun Athreya, Mayo Clinic)

How Do Protection Orders Relate to Post-Separation Parenting Arrangements in Divorce?
Julianne Enas, Junior, Human Development and Family Studies, ACES
(Research Mentor: Jen Hardesty, Human Development & Family Studies)

Liquid Rocketry at Illinois
Eli Bennett, Sophomore, Aerospace Engineering, ENG
(Research Mentor: Jordan Smart, Aerospace Engineering)

Sparse Identification of Bacterial Transcriptional Regulation
Yu Fu, Senior, Astrophysics, LAS
(Research Mentor: Ido Golding, Physics)

Participation in the Small Ensemble Division B
Steven Boston, Freshman, Music, FAA
(Research Mentor: Amy Gilreath, Music)

Neurobiological Mechanisms of Socially Influenced Sex Change in A. ocellaris
Gabriel Graham, Junior, Psychology, LAS
(Research Mentor: Justin Rhodes, Psychology)

Liquid Rocketry at Illinois
Ameya Chandra, Sophomore, Aerospace Engineering, ENG
(Research Mentor: Jordan Smart, Aerospace Engineering)

X-ray Diffraction Study of Single-Layer ZrTe2
Lily Guo, Senior, Engineering Physics, ENG
(Research Mentor: Tai-Chang Chiang, Physics)

Nuclear Proliferation and State Strength: An Analysis of Russian Elite Confidence in the Post-Cold War Era
Camille Dolce, Junior, Political Science, LAS
(Research Mentor: Joseph Hinchcliffe, Political Science)

Liquid Rocketry at Illinois
Ke (Max) Jiang, Freshman, Aerospace Engineering, ENG
(Research Mentor: Jordan Smart, Aerospace Engineering)

A Biomaterial Model to Study Matrix Remodeling and Invasion of Drug-resistant Glioblastoma
Ela Eames, Senior, Chemical Engineering, LAS
(Research Mentor: Brendan Harley, Chemical & Biomolecular Engineering)

Liquid Rocketry at Illinois
Vincent Kim, Sophomore, Aerospace Engineering, ENG
(Research Mentor: Jordan Smart, Aerospace Engineering)
RECENT WINNERS:

A Comparative Corpus-Based Study of Typed vs. Written Misspellings of Spanish Heritage Speakers, L2s, and Native Speakers: Their Considerations and Implications for Teaching
Bryanna Knott, Junior, Psychology, LAS
(Research Mentor: Melissa Bowles, Spanish & Portuguese)

Education (in)Equity Dependence on Infrastructure and Contemporary Systems of Racial Segregation
Madisen LeShoure, Junior, Information Sciences, SIS
(Research Mentor: Brandon Batzloff, School of Information Sciences)

Determining the Topology of Upcyclable poly(DCPD) and its Impact on Mechanical Properties
Andrew Lum, Junior, Materials Science and Engineering, ENG
(Research Mentor: Nancy Sottos, Materials Science & Engineering)

Shadows Don’t Lie and Lines Can’t Bend! Generative Models Don’t Know Projective Geometry... for Now
Amitabh Mahapatra, Junior, Computer Science, ENG
(Research Mentor: David Forsyth, Computer Science)

Liquid Rocketry at Illinois
Nikolaos Monogyios, Freshman, Aerospace Engineering, ENG
(Research Mentor: Jordan Smart, Aerospace Engineering)

Liquid Rocketry at Illinois
Milan Pariikh, Sophomore, Aerospace Engineering, ENG
(Research Mentor: Jordan Smart, Aerospace Engineering)

Mechanical Characterization and In Silico Finite Element Simulation of Hydrogel-based Nerve Scaffolds
Aja Phan, Junior, Mechanical Engineering, ENG
(Research Mentor: Liqun Ning & Josiah Owusu-Danquah, Mechanical Engineering, Cleveland State University)

Exercise-induced Exosomes Increase Adult Hippocampal Cell Genesis
Prithika Ravi, Junior, Brain & Cognitive Science, LAS
(Research Mentor: Justin Rhodes, Psychology)

Selecting the Most Efficient Method for a Biological Optimization Problem Using Deep Bidirectional Encoder Representations from Transformers (BERT)
Walker Rickord, Senior, Bioengineering, ENG
(Research Mentor: Paul Jensen, University of Michigan)

Liquid Rocketry at Illinois
Tamer Saatci, Sophomore, Aerospace Engineering, ENG
(Research Mentor: Jordan Smart, Aerospace Engineering)

Efficiency Droop Study of a Blue Light Emitting Diode via Power-Current-Voltage Measurements
Kaiyan Shan, Senior, Materials Science and Engineering, ENG
(Research Mentor: Can Bayram, Electrical & Computer Engineering)

YouTubePD: A Multimodal Benchmark for Parkinson’s Disease Analysis
Ansh Sharma, Junior, Computer Science, ENG
(Research Mentor: Yuxiong Wang, Computer Science)

Household Chaos is Related to Physical Activity in Children from Low-Income Households
Ananya Singh, Senior, Chemistry, LAS
(Research Mentor: Shelby Keye, Kinesiology & Community Health)

Maternal Defense Strategies: Investigating Female Aggression in Dyeing Poison Frogs
Isabella Strohmeier, Junior, Integrative Biology, LAS
(Research Mentor: Eva Fischer, Evolution, Ecology, and Behavior)
RECENT WINNERS:

**Characteristics, Needs, and Preferences of Syringe Services Program Participants: Differences Between Those Who Do and Do Not Endorse Co-Use of Heroin and Methamphetamine**

**Rachel Sun**, Junior, Psychology, LAS  
(Research Mentor: Rachel Hoopsick, Kinesiology & Community Health)

**TrackDLO: Tracking Deformable Linear Objects Under Occlusion with Motion Coherence**

**Jingyi Xiang**, Senior, Electrical Engineering, ENG  
(Research Mentor: Timothy Bretl, Aerospace Engineering)

**Comparison of Anabranching Prevalence in the Midwest Watershed Prior to European Settlement and the Present**

**Kei Yamato**, Senior, Geography & Geographic Information Science, LAS  
(Research Mentor: Bruce Rhoads, Geography & Geographic Information Science)

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**Maleiha Carino Foundation Scholarship for Cancer Research Advancement**

The Maleiha Carino Foundation Scholarship for Cancer Research Advancement honors the legacy of Maleiha Carino, a Filipino-American who tragically passed away from pediatric cancer in 2014. This scholarship recognizes outstanding contributions made by undergraduate researchers at the University of Illinois at Urbana-Champaign in the field of cancer research. This encompasses various aspects of cancer research, including basic, translational, clinical, and social/cultural dimensions.

This scholarship is generously supported by the Maleiha Carino Foundation.

**AY 2023-2024 Awardees**

**Stephanie Espino**  
Sophomore, Bioengineering, ENG

**Elaine We**  
Junior, Biochemistry, LAS
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 AY 2022/2023 Undergraduate Research Certificate recipients for their outstanding achievement! For each certificate holder, their college and graduation year are shown.

Ilya Ahmad, College of Applied Health Sciences, 2023
Neha Arun, College of Liberal Arts and Sciences, 2023
Arushi Bharel, College of Agricultural, Consumer, and Environmental Sciences, 2023
Anna Blair, College of Liberal Arts and Sciences, 2024
Noeleen Brown, College of Liberal Arts and Sciences, 2023
Judy Hsin-Hui Chiang, College of Liberal Arts and Sciences, 2022
Rujuta Chikodikar, College of Liberal Arts and Sciences, 2024
Heiley Choi, College of Liberal Arts and Sciences, 2023
Yoobeen Choi, College of Liberal Arts and Sciences, 2023
Yuhe Cui, College of Fine and Applied Arts, 2023
Andrea Czart, College of Liberal Arts and Sciences, 2023
Claire Fleming, College of Liberal Arts and Sciences, 2023
Arianna Fritz, College of Liberal Arts and Sciences, 2023
Emma Henderson, College of Liberal Arts and Sciences, 2023
Husna Hussaini, College of Liberal Arts and Sciences, 2023
Michael Jacobson, College of Liberal Arts and Sciences, 2023
Jie Ji, College of Liberal Arts and Sciences, 2023
Chenghao Jiang, Gies College of Business, 2023
Rushdan Jimoh, School of Information Sciences, 2023
Alanna Kaminsky, College of Agricultural, Consumer, and Environmental Sciences, 2023
Abigail Keck, College of Applied Health Sciences, 2023
Rachel Liu, College of Liberal Arts and Sciences, 2023
Zhengde Liu, College of Liberal Arts and Sciences, 2023
Austin Lu, The Grainger College of Engineering, 2023
Erin Markowitz, College of Liberal Arts and Sciences, 2023
Ruiqi Pan, College of Liberal Arts and Sciences, 2025
Nicolas Patino, College of Liberal Arts and Sciences, 2023
Aydan Pirani, The Grainger College of Engineering, 2024
Max Polanek, College of Liberal Arts and Sciences, 2023
Walker Rickord, The Grainger College of Engineering, 2024
Eve Rubovits, College of Applied Health Sciences, 2023
Quinn Searsmith, College of Liberal Arts and Sciences, 2023
Sonja Shirkevich, College of Liberal Arts and Sciences, 2023
Brandon Snipe, College of Applied Health Sciences, 2024
Ann Steephen, College of Liberal Arts and Sciences, 2023
Anastasiya Sushkova, College of Liberal Arts and Sciences, 2023
Tyler Swanson, College of Agricultural, Consumer, and Environmental Sciences, 2023
Aparajita Vemuri, College of Liberal Arts and Sciences, 2024
Holly Wingren, College of Liberal Arts and Sciences, 2024
Ainslee Wong, College of Liberal Arts and Sciences, 2024
Norah Yao, College of Liberal Arts and Sciences, 2024
Benedict Yeoh Keng Aik, College of Liberal Arts and Sciences, 2023
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: undergradresearch.illinois.edu/programs/urap.html

Brooke Abel, Freshman, Natural Resources & Environmental Sciences, ACES
(Research Mentor: Sujit Jagtap, Institute for Sustainability, Energy & Environment)

Amrit Agarwal, Freshman, Civil & Environmental Engineering, ENG
(Research Mentor: Bayezid Baten, Civil Engineering)

Tanay Agrawal, Freshman, Astrophysics, LAS
(Research Mentor: Margaret Verrico, Astronomy)

Caleigh Arentsen, Sophomore, Bioengineering, ENG
(Research Mentor: Kyle Timmer, Chemical & Biomolecular Engineering)

Arrhan Bhatia, Sophomore, Computer Engineering, ENG
(Research Mentor: James Steur, Political Science)

Mary Brennan, Junior, Economics, LA
(Research Mentor: Alana Ackerman, Anthropology)

Emily Castillo, Sophomore, English, LAS
(Research Mentor: Christopher Getowicz, Education Policy, Organization & Leadership)

Alan Cervantes, Sophomore, Political Science, LAS
(Research Mentor: Grazzia Grimaldi, Anthropology)

Ayushi Chakraborty, Sophomore, Biochemistry, LAS
(Research Mentor: AJ Taylor, Food Science & Human Nutrition)

Panyue Chen, Sophomore, Mathematics, LAS
(Research Mentor: Muhammad Hassan, School of Information Sciences)

Yihao Chen, Junior, Statistics, Sociology, LAS
(Research Mentor: Emma Lundin, Recreation, Sport & Tourism)

Xinyue Chen, Sophomore, Political Science, LAS
(Research Mentor: Shuyuan Shen, Political Science)

Sophie Chiewtrakoon, Sophomore, Sociology, LAS
(Research Mentor: Anna Barkley, Education Policy, Organization & Leadership)

Minseo Cho, Freshman, Business Undeclared, GIES
(Research Mentor: Abigail Stocker, Economics)

Sam Christoff, Sophomore, Animal Sciences, ACES
(Research Mentor: Grace Rubino, Chemical Engineering)

Kevin Dai, Freshman, Electrical Engineering, ENG
(Research Mentor: Benjamin Campbell, Community Health)

Rhea Dcosta, Freshman, Finance + Data Science, BUS
(Research Mentor: Seongjoon Ahn, Political Science)

Isabel Escapa, Junior, Psychology, Sociology, LAS
(Research Mentor: Isaiah Raynal, Political Science)

Kate Garton, Sophomore, Political Science, LAS
(Research Mentor: Søren Warland, Political Science)
Sai Smriti Gogineni, Freshman, Biology, LAS
(Research Mentor: Sujit Jagtap, Institute for Sustainability, Energy & Environment)

David Gora, Junior, Engineering Technology & Management for Agricultural Systems, ACES
(Research Mentor: Saurabh Bagare, Aerospace Engineering)

Elizabeth Hea, Freshman, Psychology, LAS
(Research Mentor: John Oliveira, Recreation, Sport & Tourism)

Tyler Heaney, Sophomore, CS + Philosophy, LAS
(Research Mentor: Md Fazlul Huq, Nuclear, Plasma & Radiological Engineering)

Jisu Hong, Sophomore, Civil Engineering, ENG
(Research Mentor: Bayezid Baten, Civil Engineering)

Jaelyn Hudson, Sophomore, Psychology, LAS
(Research Mentor: Rebeca Agosto Rosa, Political Science)

Audra Aurora Izzani, Freshman, Computer Science, ENG
(Research Mentor: Katie VanDyne, Spanish & Portuguese)

Roxana Jafari Haddadian, Freshman, Neural Engineering, ENG
(Research Mentor: Valeria Trivellone, Illinois Natural History Survey)

Aman Jhurani, Freshman, Engineering Mechanics, ENG
(Research Mentor: Shubhang Goswami, Physics)

Warren Jodjana, Freshman, CS + Education, EDU
(Research Mentor: Megan Best, Special Education)

Jun-Ha Kim, Freshman, Graphic Design, FAA
(Research Mentor: Chia-Ching Wu, Landscape Architecture)

Natalie Klunke, Sophomore, Global Studies, LAS
(Research Mentor: Myung Jung Kim, Political Science)

Hyeongseok Lee, Freshman, Statistics, LAS
(Research Mentor: Katie VanDyne, Spanish & Portuguese)

Rachel Li, Junior, Mathematics, LAS
(Research Mentor: Akshat Tripathi, Astronomy)

Samuele Longo, Sophomore, Philosophy, LAS
(Research Mentor: Janaynne Carvalho do Amaral, School of Information Sciences)

Elli Lu, Freshman, Chemistry, LAS
(Research Mentor: Pranav Krishnan, Materials Science & Engineering)

Lauren MacLean, Sophomore, Natural Resources & Environmental Science, ACES
(Research Mentor: Ilana Zeitzer, Program in Ecology, Evolution & Conservation Biology)

Tara Mukherjee, Freshman, Chemical & Biomolecular Engineering, LAS
(Research Mentor: Genesis Rios Adorno, Chemical & Biomolecular Engineering)

Sean Murphy, Junior, English, LAS
(Research Mentor: Zachary Jablow, Political Science)

Due Nguyen, Freshman, Electrical Engineering, ENG
(Research Mentor: Gautham Krishnan, Mechanical Science & Engineering)

Lydia Oesterling, Freshman, Linguistics, LAS
(Research Mentor: Julia Gorham, French & Italian)

Junmee Park, Freshman, CS + Education, EDU
(Research Mentor: Tiffany Reyes Denis, Educational Psychology)

Stella Pashyan, Freshman, Psychology, LAS
(Research Mentor: Jinwon Lee, Political Science)

Nidhi Patel, Senior, Psychology, LAS
(Research Mentor: Alesha Lewis, Political Science)

Dhenu Patel, Freshman, Natural Resources & Environmental Science, ACES
(Research Mentor: Caitlin Bloomer, Natural Resources & Environmental Sciences)

Anisha Rao, Freshman, Linguistics, LAS
(Research Mentor: Katie VanDyne, Spanish & Portuguese)

Jeremy Septon, Sophomore, Economics, LAS
(Research Mentor: Amanda Merck, Urban & Regional Planning)

Vedika Shah, Freshman, Global Studies, LAS
(Research Mentor: Do Young Gong, Political Science)

Arshiya Shah, Sophomore, Political Science, LAS
(Research Mentor: Myung Jung Kim, Political Science)

Nidhi Shanthappa, Freshman, Neuroscience, LAS
(Research Mentor: Rebecca Bishop, Comparative Biosciences)

Martha Sulzen, Sophomore, Political Science, LAS
(Research Mentor: Søren Warland, Political Science)
Natalie Towle, Freshman, Chemistry, LAS
(Research Mentor: Hannah Veldhuizen, Earth Science & Environmental Change)

Quan Vo, Junior, Mechanical Engineering, ENG
(Research Mentor: Lin Song, Mechanical Science & Engineering)

Amanda Watson, Sophomore, Chemical Engineering, LAS
(Research Mentor: Anna Cramblitt, Materials Science & Engineering)

Warren Wellington, Sophomore, Materials Science & Engineering, ENG
(Research Mentor: Tyler Price, Materials Science & Engineering)

Rosabella Wu, Freshman, Learning & Education Studies, EDU
(Research Mentor: H. Kuneyl, Education Policy, Organization & Leadership)

Dylan Wu, Freshman, Statistics, LAS
(Research Mentor: John Oliveira, Recreation, Sport & Tourism)

Simon Xia, Sophomore, Engineering Undeclared, ENG
(Research Mentor: Ashish Kashinath, Computer Science)

Martin Xu, Freshman, Electrical Engineering, ENG
(Research Mentor: Ga-Yeong Kim, Civil & Environmental Engineering)

Qianhan (Sam) Ya, Freshman, Psychology, LAS
(Research Mentor: Isaiah Raynal, Political Science)

Deyu Zhang, Senior, Econometrics & Quantitative Economics, LAS
(Research Mentor: Ji Soo Yoo, Political Science)

Steven Zhen, Freshman, Mathematics, LAS
(Research Mentor: Shuyuan Shen, Political Science)
Celebrating Our Research Mentors

Exceptional mentoring requires more than just guidance—it demands a foundation of robust support, a significant time investment, and an unwavering commitment to the growth and success of each individual. Again this year, we invited our undergraduate presenters to share their transformative experiences and the profound impacts of their research mentors.

The following entries provide just a glimpse of the overwhelming response we received. Alongside our students, we recognize and extend our deepest gratitude to all those who continue to guide undergraduate research at Illinois.

“Thank you, Fahren, for believing in us and having faith in our ability, trusting us to be a part of your research project. Also, thank you for not only being an extraordinary mentor and supervisor, but also a friend.”

- Hanif Salam

“Janaynne, thank you for your patience, knowledge, and kindness during these past few months. You’re a fantastic mentor, and I truly hope more students will be able to be impacted by such a relationship with you. It’s a beautiful thing having a mentor who trusts your abilities despite differences in knowledge and experiences. Thank you!”

- Samuele Longo
  Research Mentor: Janaynne Carvalho do Amaral, School of Information Sciences

“Thank you, Prof. Daniel. Thank you for showing me the magical land of math biology, for giving me so much advice on my courses, and for supporting me over the past months.”

- Chenning Xu
  Research Mentor: Daniel Cooney, Mathematics

Scan the QR code to read more notes of gratitude
“Dr. Studer, thank you so much for creating such an incredible environment to work and learn. I’ve really enjoyed being a part of your team and have gained so much from the lab you’ve built. Your tireless effort in everything you do is something I’ll always look up to as it motivates me in my own endeavors. Thank you for your endless encouragement and patience in your teaching and training.

-Marie Shaffer
Research Mentor: Anthony Studer, Crop Sciences

“Dr. Rosch, I deeply appreciate your mentorship throughout my collegiate journey. Your ability to ask questions that shift my own perspectives has allowed me to perceive things from new angles and gain deeper insights into all aspects of life. Thank you for your support and encouragement.

-Emily Brooks
Research Mentor: David Rosch, Agricultural Leadership, Education & Communication

“Dr. Hind, thank you for generously taking me under your wing to help me achieve my academic and professional goals. It means the world to me. I also want to thank Justin Larkin, Iris Lee, and my fellow undergraduates for always showing kindness and helping me in lab.

-Kevin Rattin
Research Mentor: Sarah Hind, Crop Sciences
Thank you, Siva and Prof. Smith, for all of your support! We are grateful for the invaluable advice you’ve shared. We are truly fortunate to have mentors like you, who inspire us to strive for excellence and navigate challenges with confidence. You are the best!

- Trisha Patnaik
Research Mentor:
Siva Nalla, Bioengineering & Andrew Smith, Bioengineering

Dear Ali, thank you for allowing me to do research at Uni Primary this semester and welcoming me with such open arms. We made a perfect team, and you truly made me feel a part of the school community. I could have not asked for a better mentor or experience. I hope you continue making a difference!

- Ryan McMahon
Research Mentor:
Ali Lewis, University Primary School

Thank you, Mariana and Mattox, for all of your support! We are grateful for the invaluable advice you’ve shared. We are truly fortunate to have mentors like you, who inspire us to strive for excellence and navigate challenges with confidence. You are the best!

- Yuxuan Chen & Kangyu Feng
Research Mentor:
Mariana Silva, Computer Science, Mattox Beckman, Computer Science

Dear Caitlin, thank you for being an incredible mentor. Your guidance and wisdom have been invaluable to me. I appreciate your support and encouragement more than words can express. I am so grateful for the opportunity to learn from you.

- Dhenu Patel
Research Mentor:
Caitlin Bloomer, Natural Resources & Environmental Sciences
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 on their applications. 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 hoping to win a scholarship, 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.

Website: topscholars.illinois.edu
Email: topscholars@illinois.edu
Physical Location: National & International Scholarships Program
—
Illini Union Bookstore
807 S Wright St
Suite 520
Champaign, IL 61820

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 December 2, 2024. For more information and support with applying, please contact NIS.

RECENT WINNERS:

Sylvia E  Daniel Feng  Alice Gao  Amelia Korveziroska  Riley Trendler
The Fulbright Scholarship

Are you looking for an exciting way to spend a year abroad after you graduate? The Fulbright Student Program offers U.S. citizens one year of funding to pursue an academic experience in over 140 countries worldwide. Juniors, seniors, and alumni may apply to pursue a research project or a graduate-degree program abroad. In addition, you can apply to spend one year as an English Teaching Assistant (ETA) in one of 75 plus 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 26, 2024. For more information and support with applying, please contact NIS.

**RECENT WINNERS:**

Caleb Apperson  
Daniela Barbosa  
Luisa Daniela Carrillo  
Drew Gooding  
Kaitlyn Ho  
Lilian Lucas  
Mariama Mwilambwe  
Nicole Park  
Jonathan Phalen  
Raphael Portillo  
Matthew Schultz  
Elizabeth Tang

Schwarzman Scholars

Are you a future 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. 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. In addition, the scholarship provides leadership training, exposure to high-level industry experts, and field trips around China. Students and alumni of all majors and of any citizenship are eligible to apply.

**Deadline:** The campus deadline is August 22, 2024. (May 20, 2024, for students holding passports from China, Hong Kong, Taiwan, or Macao). For more information and support with applying, please contact NIS.

**RECENT WINNER:**

Grace Mitchell
Beinecke Scholarship

Are you a humanities, arts, 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 of attending graduate school. Applicants must be pursuing a Ph.D. or MFA after graduation.

**Deadline:** The campus deadline is February 24, 2025.
For more information and support with applying, please contact NIS.

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+ and demonstrate leadership and a commitment to service.

**Deadline:** The campus deadline is January 27, 2025.
For more information and support with applying, please contact NIS.

Voyager Scholarship

Are you a change-agent working to solve the biggest challenges of our time? The Voyager Scholarship provides up to $80,000 ($25,000/yr. of financial aid for junior and senior year, $10,000 for a summer experience, and ten years of $2,000 Airbnb credits) for rising juniors who have a passion for helping others, experience serving communities, and plan to pursue a public service career. A career in public service includes a wide range of work in government, non-profits, or the private sector, with goals such as scientific advancement, community improvement, entrepreneurship, and empowerment through art. U.S. citizens, permanent residents, or DACA recipients who are entering their junior year with a 3.0+ GPA and demonstrated financial need are eligible to apply.

**Deadline:** The campus deadline is February 27, 2025.
For more information and support with applying, please contact NIS.

Interested in learning about more awards?

NIS will host an online session for students involved in research to hear about opportunities to continue their work and earn funding for it, or to utilize their research experience as a launching pad to funded opportunities. This 30-minute session on May 2nd at 11:00 am is open to undergraduates of all majors and class standing.

**Register at:** go.illinois.edu/WhereCanResearchTakeYouWorkshop
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: writersworkshop.illinois.edu/

University Library

Librarians and staff provide innovative services, technology, collections, and spaces 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: library.illinois.edu/
Supporting Undergraduate Research at Illinois

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.

Whether it’s a small or large gift, your support directly contributes to providing grants and awards that enable these students to explore their passions, gain valuable experience, and achieve academic excellence. Your donation can help us continue to foster a culture of inquiry, innovation, and discovery among our talented undergraduate researchers. Please join us in supporting their success and making a lasting impact on their academic journey.

Thank you in advance for your support.

Visit: undergradresearch.illinois.edu/giving
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<tr>
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<td>Brockington, Li</td>
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Gogineni, Sai Smriti: Poster PF - Cells & Molecules
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Golemba, Samantha: Poster PC - Health & Wellness; Poster PT - Health & Wellness
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Goyal, Suvini: Poster PB - Science & Technology
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Grondlund, Kate: Poster PT - Health & Wellness
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Harty, Kate: Poster PC - Health & Wellness
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Hayes, Londarius: Image of Research
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Hullier, Ella: Poster PS - Nature, Life & Environment
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Knapp, Charlie: Poster PJ - Cells & Molecules
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Srivastava, Dhruv: Poster PI - Science & Technology
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Straus, Maxwell: Poster PX - Cells & Molecules
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Sullivan, Claire: Poster PN - Food, Plants & Animals
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Tam, Markus: ISUR Research Expo
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Tang, Elizabeth: Celebrating Our Student Scholars
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Thomas, Nevin: Poster PQ - Science & Technology
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Trela, Corey: Poster PX - Cells & Molecules
Trendler, Riley: Celebrating Our Student Scholars
Trinidad, Zion: Oral Panel - Access in Education: Strategies for Inclusive Spaces Across Disciplines
Tuan, Felicity: Poster PU - Education, Learning & Human Development
Tunuguntla, Asritha: Poster PC - Health & Wellness
Tuvilleja, Kaitlyn Faith: Poster PR - Design Thinking & Innovation
Twigg, Francesca: Poster PA - Humanities, Arts & Social Sciences
Uppuluri, Nishi: ISUR Research Expo
Urbanos, Anika: Poster PK - Health & Wellness
Usman, Anne-Farah: Oral Panel - Unraveling Neurological Mysteries; Image of Research
Vaidya, Arjun: Poster PL - Social Science & Human Behavior
Vaidya, Aryan: ISUR Research Expo
Valaivala, Neha: Illinois Mathematics Lab Spring Poster Session
Valenzuela-Gutierrez, Analucia: Poster PH - Education, Learning & Human Development
Valero, Michelle: Latina/Latino Studies Senior Symposium
Vallejo, Jesus: Poster PS - Nature, Life & Environment
Van Wazer, John: Poster PI - Science & Technology
Varanik, Jena: Poster PK - Health & Wellness
Varma, Nandana: Poster PX - Cells & Molecules
Vassileva, Ralitsa: Poster PC - Health & Wellness
Vasishney, Avni: On Exhibit - Robots & Medical Technology
Vazquez, Andres: Celebrating Our Student Scholars
Vassileva, Ralitsa: Poster PC - Health & Wellness
Vassos, Jamie: Poster PH - Education, Learning & Human Development
Venuri, Aparajita: Poster PD - Social Science & Behavior; Poster PU - Education, Learning & Human Development; Certificate Awardees
Vile, Jacob: Poster PS - Nature, Life & Environment
Villaflor, Valerie: Communication Undergraduate Research Event; Poster PN - Food, Plants & Animals
Villalobos, Michelle: Poster PJ - Cells & Molecules
Villano, Lara: Poster PP - Cells & Molecules; Image of Research
Vinjamuri, Shreya: ISUR Research Expo
Vittailo, Catherine: Poster PE - Nature, Life & Environment
Vo, Quan: Poster PR - Design Thinking & Innovation
Vo, Vinh: Poster PV - Social Science & Human Behavior
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**Undergraduate Research Week**

**April 21 - 27, 2024**

- **Volz, Adeline:** Poster PE - Nature, Life & Environment
- **Vondra, Hannah:** Oral Panel - From Embodied Narratives to Imagined Futures: Exploring Love, Madness, and Posthuman Utopias
- **Vorotnjak, Severin:** Poster PI - Science & Technology
- **Wacker, Bruce:** Parkland Honors Program
- **Wang, Amy:** ISUR Research Expo
- **Wang, Emily:** Poster PF - Cells & Molecules
- **Wang, Eric:** On Exhibit - Robots & Medical Technology
- **Wang, Firman:** ISUR Research Expo
- **Wang, Jingtong:** ISUR Research Expo
- **Wang, Kecheng:** Poster PP - Cells & Molecules
- **Wang, Nancy:** ISUR Research Expo
- **Wang, Phyllis:** ISUR Research Expo
- **Wang, Tiger:** Poster PM - Data & Information
- **Wang, Xinyu:** Illinois Mathematics Lab Spring Poster Session
- **Wang, Yichen:** Poster PV - Social Science & Human Behavior
- **Wang, Ziqi:** Poster FA - Humanities, Arts & Social Sciences
- **Wang, Ziwei:** Poster PM - Data & Information
- **Wang, Zoe:** Poster PW - Science & Technology
- **Ward, Alexandra:** Parkland Honors Program
- **Warner, Bethany:** Poster PE - Nature, Life & Environment
- **Wasile, Dhuluh:** Oral Panel - Shaping Judgement: How Perceptions Influence Evaluation
- **Watson, Amanda:** Poster PW - Science & Technology
- **Watts, Charlie:** Poster PK - Health & Wellness
- **Wayda, Stephanie:** On Exhibit - Robots & Medical Technology
- **Wefel, Aidan:** On Exhibit - Digital Storytelling & Learning
- **Wei, Elaine:** Celebrating Our Student Scholars
- **Weinshenker, Valerie:** Poster PU - Education, Learning & Human Development
- **Wellington, Warren:** Poster PR - Design Thinking & Innovation
- **Wenger, Lily:** Poster PP - Cells & Molecules; Celebrating Our Student Scholars
- **White, Ethan:** ISUR Research Expo
- **White, George:** Illinois Mathematics Lab Spring Poster Session
- **Wiggins, Dheeran:** Illinois Mathematics Lab Spring Poster Session; Oral Panel - Disease Biology & Dynamics
- **Wilcoski, David:** Poster PR - Design Thinking & Innovation
- **Wilson, Sarah:** ISUR Research Expo
- **Wingren, Holly:** Certificate Awardees
- **Wocherle, Thomas:** Oral Panel - Machine Learning in Action
- **Wong, Ainslee:** Certificate Awardees; Poster PC - Health & Wellness
- **Worthley, Alexa:** Poster PW - Science & Technology
- **Wright, Virginia:** Poster PA - Humanities, Arts & Social Sciences
- **Wroblewski, Natalie:** Poster PH - Education, Learning & Human Development
- **Wu, Dily:** Illinois Mathematics Lab Spring Poster Session
- **Wu, Dylan:** Poster PL - Social Science & Human Behavior
- **Wu, Rosabella:** Poster PH - Education, Learning & Human Development
- **Wu, Siyuan:** Poster PB - Science & Technology
- **Wu, Steven:** Poster PS - Nature, Life & Environment
- **Wu, Ziyi:** Poster PQ - Science & Technology
- **Wul, Ziyi:** Poster PH - Education, Learning & Human Development
- **Wymar, Just:** Oral Panel - Contesting Narratives: Gender, Colonialism, and the Power of Representation
- **Xia, David:** Illinois Mathematics Lab Spring Poster Session; Poster PM - Data & Information
- **Xia, Simon:** Poster PB - Science & Technology
- **Xiang, Jingyi:** Celebrating Our Student Scholars
- **Xu, Chenning:** Illinois Mathematics Lab Spring Poster Session; Oral Panel - New Approaches in Mathematics
- **Xu, Christopher:** On Exhibit - Robots & Medical Technology; Celebrating Our Student Scholars
- **Xu, Martín:** Poster PQ - Science & Technology
- **Xu, Patrick:** ISUR Research Expo
- **Xu, Salih:** Illinois Mathematics Lab Spring Poster Session
- **Xuan, Hogyi:** Parkland Honors Program
- **Ya, Sam:** Poster PV - Social Science & Human Behavior
- **Yahya, Najwa Farhana:** Poster PK - Health & Wellness
- **Yamato, Kei:** Celebrating Our Student Scholars
- **Yang, Ledan:** Oral Panel - From Picturebooks to Pandemics: Influences on Development Across the Lifespan
- **Yang, Ruxu:** Poster PH - Education, Learning & Human Development
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- **Yang, Ruxu:** Poster PH - Education, Learning & Human Development
- **Zagorski, Max:** Poster PK - Health & Wellness
- **Zant, Chloe:** Poster PJ - Cells & Molecules
- **Zeng, Annie:** ISUR Research Expo
- **Zeng, Michelle:** Poster PW - Science & Technology
- **Zhao, Delu:** Poster PH - Education, Learning & Human Development
- **Zhao, Ruxu:** Poster PH - Education, Learning & Human Development
- **Zhao, Ruxu:** Poster PH - Education, Learning & Human Development
- **Zhen, Steven:** Poster PG - Social Issues & Policy
- **Zhou, Yiheng:** Illinois Mathematics Lab Spring Poster Session
- **Zhu, Michelle:** Poster PC - Health & Wellness
- **Zhu, Yifan:** On Exhibit - Digital Storytelling & Learning
- **Ziegler, Chanel:** Communication Undergraduate Research Event; Poster PG - Social Issues & Policy
- **Zlatic, Anna:** Poster PC - Health & Wellness; Poster PT - Health & Wellness
- **Zlatic, Annamarie:** Poster PC - Health & Wellness
- **Zoboš, Katja:** ISUR Research Expo
- **Yan, Jack:** On Exhibit - Robots & Medical Technology; Celebrating Our Student Scholars
- **Yao, Ryan:** Poster PJ - Cells & Molecules
- **Yao, Tianyong:** Illinois Mathematics Lab Spring Poster Session
- **Ye, Zhiheng:** Poster PM - Data & Information
- **Yedavalli, Anjali:** Poster PK - Health & Wellness
- **Yeoh Keng Aik, Benedict:** Certificate Awardees
- **Yeon, Jihyeok:** Poster PD - Social Science & Behavior
- **Yin, Corey:** ISUR Research Expo
- **Ying, Matt:** Oral Panel - Technology in Healthcare
- **Yonezawa, Ayumi:** Poster PC - Health & Wellness
- **Yoon, Nathan:** Poster PF - Cells & Molecules
- **Yu, Eric:** Oral Panel - Unveiling the Extreme Universe: From Neutron Stars to Black Holes
- **Yu, Jia Bao:** Poster PN - Food, Plants & Animals
- **Yu, Ruiqing:** Poster PU - Education, Learning & Human Development
- **Yuan, Jiepeng:** Poster PM - Data & Information
- **Yue, Andrew:** Poster PQ - Science & Technology
- **Zagorski, Max:** Poster PK - Health & Wellness
- **Zant, Chloe:** Poster PJ - Cells & Molecules
- **Zeng, Annie:** ISUR Research Expo
- **Zeng, Michelle:** Poster PW - Science & Technology
- **Zhang, Deyu:** Poster PD - Social Science & Behavior
- **Zhang, Zora:** ISUR Research Expo
- **Zhang, Zory:** Oral Panel - New Approaches in Mathematics
- **Zhao, Delu:** Poster PH - Education, Learning & Human Development
- **Zhao, Ruxu:** Poster PH - Education, Learning & Human Development
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- **Zhou, Ethan:** Oral Panel - Technology in Healthcare
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- **Zhu, Michelle:** Poster PC - Health & Wellness
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- **Zlatic, Annamarie:** Poster PC - Health & Wellness
- **Zoboš, Katja:** ISUR Research Expo
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