ILLINOIS UNDERGRADUATE RESEARCH WEEK
APRIL 14-20, 2019

2019 PROGRAM OF EVENTS
Welcome to Undergraduate Research Week (URW), a celebration of student innovation and excellence in research across our campus. The signature event is the twelfth annual campus-wide Undergraduate Research Symposium (URS), held on Thursday, April 18. The breadth and scope of student presentations reflect not only the wide range of academic disciplines here at the University of Illinois, but speak to the caliber of our undergraduate students as well. Their projects also demonstrate the ongoing commitment of our faculty, academic staff, and other campus stakeholders in supporting and expanding undergraduate research opportunities on campus and beyond.

The presentations, posters, and performances in this program address some of society’s most pressing issues. As is true of the mentors who support them, these students and their projects hold the potential to change the world for the better. The featured lunch time session demonstrates the range of research that occurs at the University of Illinois, from new technologies for water purification to the social consequences of environmental gentrification.

All student presenters are eligible to receive awards in various categories for the best posters, oral presentations, and performances. Judges include university administrators and distinguished faculty members from disciplines represented by our student participants.

A special thanks goes to our hardworking staff, without whom the logistics of planning such a large-scale annual event would be impossible: Christopher Holmes, our Program Manager; David Aristizábal, our graduate research assistant; and Chloe Chan, Corissa Kurth, and Genesis Romo, our undergraduate interns. Many thanks also to our Advisory Board for their ongoing support, as well as our Illinois Undergraduate Research Ambassadors, who are new to OUR but are already making their mark in supporting both their undergraduate colleagues across campus and OUR programming and events.

We invite you to come be inspired!

Dr. Karen Rodriguez’G
Director, Office of Undergraduate Research
Sponsors

AXIS Capital
Maxflow Technology, Inc.
Office of the Provost, University of Illinois
Stevick Foundation

Special thanks to the Illini Union Event Staff, and to BodyWork Associates, Einstein's Bagels, Auntie Anne's Pretzels, Wendy's, and Espresso Royale for their generous gift card contributions.
Department of Political Science Student Research Symposium & Awards Ceremony
Saturday, April 13, 11:00 AM – 1:00 PM
I-Hotel, 1900 First Street, Champaign, Illinois, Lincoln + Alma Mater Rooms

Political Science students will present their senior theses. Departmental scholarships and awards will also be given out at this event.

Ethnography of the University Initiative (EUI) Biannual Student Conference & Odyssey Project Poster Symposium
Monday, April 15, 4:00 PM – 8:00 PM
Levis Faculty Center, 919 W. Illinois Street, Urbana, Illinois, 2nd Floor

Since 2003, EUI has provided an innovative approach to teaching and learning focused on promoting student research on universities and colleges. In EUI-affiliated courses, students use a variety of ethnographic, archival, and related methods to examine the university in its broader social, political, and historical contexts. At the end of each semester, students have the opportunity to present their research at our biannual conference as well as contribute their work to the EUI collection in the University of Illinois' digital repository, Illinois Digital Environment for Access to Learning and Scholarship (IDEALS). The EUI program is supported by the Illinois Office of Undergraduate Research.

Since 2006, the Odyssey Project has been a linking point between the University of Illinois and the broader Champaign-Urbana community. Eligible community members take four free humanities courses taught by faculty from the campus. Odyssey Project students will host poster sessions highlighting findings from their explorations of both Art History and Philosophy.

Parkland College Oral Presentations

Time and Space: Observing the Effects of Different Parkland Spaces
Jane Liao
Rosie Solan
Emma Fleming

Out in College
Jazmine Rodriguez
Griffin Overbey
Emma Chmielewski

Food Choices at Parkland: Are They Conducive to One's Health?
Trey Meyer
Kyle Crary
Owen Nowak

How Has the International Student Association (ISA) Helped with Socialization?
Parker Evans
Damla Unal
Taylor Millsap

Why Parkland?
Stan Shobe
Amber Haines
Piers Cardenas

Odyssey Project Poster Presentations

The Significance of Gospel Music in The Autobiography of an Ex-Colored Man
Marion LaDean Armstrong

Health and Human Happiness: Aristotle's Nicomachean Ethics
Marvin Arzadon

Plato, Then and Now: A Reader's Response
Elly Barker

Writing an Autobiography
Al Farrow

Gender Norms and Social Justice: The Case of Ida B. Wells
Michelle Gougis and Tanyanette Sims

Giving Up to Get: Thomas Hobbes' Leviathan
Maritrini Gomez

The Art History of Tattooing
Kyle Helfrich

The Art of Crocheting and Its History
Sylvia Hollins

Reflections on Toni Morrison's Recitatif
Jeannette Ngoloma

Food for Thought
Antwaune Young

College of Fine and Applied Arts (FAA) Events

On Display, April 14 – April 20
Art + Design Building

The School of Art + Design's Undergraduate Research Week Exhibition will feature outstanding creative research by students selected to represent the breadth of research done in our nine programs, encompassing the Studio Arts, Graphic Design, Industrial Design, Photography, Art History, Art Education, and Crafts. In order to maximize visibility this year, work will be displayed in the first floor A+D corridor, and will be displayed in glass cases and on display walls located at the West end of the hallway, just inside the Fourth Street entrance.
On Display, April 15 – April 17
Temple Buell Hall (Lower Atrium)

Outstanding work from undergraduate majors in architecture and landscape architecture will be displayed. This work highlights community-based projects completed by undergraduate students as part of both research and coursework.

Performance as Research: Departments of Theater & Dance, School of Music
Friday, April 19, 2:00 PM – 5:00 PM
Krannert Center for the Performing Arts, Lobby and Stage 5

Performing arts undergraduate students will enliven the expansive lobby of the Krannert Center for the Performing Arts with music, dance and theater. Experience the arts live and up close!

On Display, April 25, 5:00 – 7:00 PM
Temple Buell Hall (Architecture Gallery, Blicharski Atrium, Lower Level)

BAUSP Capstone Poster Session: Students from the Bachelor of Arts in Urban Studies and Planning Program will present their research and internship work as part of their capstone experience requirement. Qualifying projects include internship experiences, volunteer work, client-based consulting projects, summer research, and more.

College of Engineering Illinois Scholars Undergraduate Research (ISUR) Research Poster Expo
Wednesday, April 17, 4:00 PM – 6:00 PM
Illini Union, Illini Rooms B and C

The College of Engineering Illinois Scholars Undergraduate Research (ISUR) program is for students looking for a structured two-semester research experience with a research learning community. The program facilitates opportunities to expand students’ academic experience beyond the walls of the traditional classroom. Through the learning-by-apprenticeship model, students become familiar with research methodologies, develop their research skills, are exposed to what graduate school entails, and gain experience needed for graduate school acceptance or research in industry.

A Novel Approach to Encapsulate Homogeneous Catalysts
Muneeb Ansari, Senior, Specialized Chemistry, LAS

Single Cell RNA Sequencing
Anusha Anumakonda, Sophomore, Electrical Engineering, ENG

“Color” Detection of Bone Microcracks in vivo with Hafnium Oxide Nanoparticles and Photon Counting CT
Lily Benig, Senior, Bioengineering, ENG

In-Situ Characterization of High Temperature Oxides up to 3000°C
Julia Elizabeth Brodecki, Junior, Materials Science & Engineering, ENG
Whitney Tso, Senior, Materials Science & Engineering, ENG

27-Hydroxycholesterol Implicated in Breast Cancer Reemergence from Dormancy
Joy Chen, Sophomore, Bioengineering, ENG

Time-Series Bacterial Colony Tracking Using Computer Vision
Adam Dama, Senior, Bioengineering, ENG

Applications of Reinforcement Learning in Planetary Rovers
Parth Dhruve, Sophomore, Aerospace Engineering, ENG

Microfluidic Device for Cell Encapsulation
Michael Ding, Senior, Chemical Engineering, LAS

Investigating the Effectiveness of MDI-QKD with Weak Coherent Pulses
Annika Dugad, Senior, Electrical Engineering, ENG

Development and Characterization of Stimuli-Responsive Polymer Microcapsules
Simon Egner, Senior, Materials Science & Engineering, ENG

Differentiation of Liver Progenitor Cells in Defined 3D Microtissues
Krista Habing, Junior, Bioengineering, ENG

DNA Origami Assisted Plasmonic Nanostructure
Joe Haight, Senior, Engineering Physics, ENG

Developing a Spatially-Defined Biomaterial Model of the Glioblastoma Perivascular Niche
Christine Hunter, Senior, Bioengineering, ENG

Multiscale Multi-modal Imaging of Ischemic Tissue Microenvironment After Cell-based Therapy
Than Huynh, Senior, Bioengineering, ENG

Experimental Model of Mass Transfer Rates of Diffusion-Limited Emulsion Co-Polymerization
Thomas Johnston, Junior, Chemical Engineering, LAS

Developing Bio-Inks to Fabricate 3D Hydrogel Platforms for Glioblastoma
Nicole Jugovich, Junior, Chemical Engineering, LAS

Rapid Fabrication of Multifunctional Vascular Composites Using Transient Polymers
Adam Ladd, Senior, Materials Science & Engineering, ENG

Methods Towards Achieving Atomically-Clean Graphene Transfer
Rachel Lawless, Junior, Materials Science & Engineering, ENG

Enhancing Spatial Control of Optogenetic Stimulation and Imaging with an Optical Fiber Bundle System
Alyssa Licudine, Sophomore, Electrical Engineering, ENG

Mechanics of Dual-Capture Microfluidic Devices
Cynthia Liu, Senior, Bioengineering, ENG
Optimization of Mechanical and Biointegrative Properties of Bone Replacement Composites
Andrey Nosatov, Sophomore, Materials Science & Engineering, ENG

On Analytical Modeling of Flaky Tests
Otto Piramuthu, Sophomore, Computer Science, ENG

How Multiple Motors Move Cellular Cargo
Jake Ribich, Junior, Engineering Physics, ENG

Cello Timbre Synthesis Using the Source/Filter Model
Anabel Rivera, Junior, Electrical Engineering, ENG

Utilizing Sonometric Crystals for in Vivo Ultrasonic Communication
Kanad Sarkar, Sophomore, Electrical Engineering, ENG

Development of a Facile Experimental Technique for the Fabrication of Double Emulsions
Grayson Schaer, Senior, Aerospace Engineering, ENG

Chiral Analysis of D-Aspartate in the Islets of Langerhans
Jack Schnieders, Junior, Chemical & Biomolecular Engineering, LAS

Magnetic Field Mapping with Dipole Models
Daniel Steinberg, Junior, Aerospace Engineering, ENG

A MATLAB Graphical User Interface to 3D Print Anatomical Models
Muzammil Siddiqui, Senior, Nuclear, Plasma & Radiological Engineering, ENG

Controlling Stochastic Pluripotent Stem Cell Differentiation
Harpal Singh, Sophomore, Bioengineering, ENG

Determining Macrophage Polarization within Mineralized Collagen-Amnion Scaffolds for Craniofacial Bone Regeneration
Diana Slater, Junior, Bioengineering, ENG

The Missing Link Between Acoustic Stealth and Poroelasticity: A Soft Filament Approach
Greg Stroot, Senior, Mechanical Engineering, ENG

Automated Bacterial Colony Tracking on Solid Media
Matthew Tang, Senior, Bioengineering, ENG

The Effect of Mixture Proportioning on the Relationship between Slump and Yield Stress of Concrete
Benjamin Tung, Senior, Civil & Environmental Engineering, ENG

Universal, Green Chemistry Approach to Synthesizing Functional Theranostic Gold Nanoparticles
Rachele Wen, Senior, Bioengineering, ENG

Nanopatterned Thin Film Heterostructures as Majorana Platform
Xiuting Wu, Senior, Engineering Physics, ENG

Ultrasound-Induced Hyperthermia of Mouse Cervical Lymph Nodes
David Yan, Junior, Electrical Engineering, ENG

IPRH-Mellon Environmental Humanities Undergraduate Research Symposium: Deconstructing and Reshaping Untold Narratives
Friday, April 19, 1:00 PM – 3:30 PM
Levis Faculty Center, 919 W. Illinois Street, Urbana Illinois,
IPRH Lecture Hall, Room 422

Are you interested in how the sciences, arts, and humanities intersect to address environmental issues? The IPRH-Mellon Environmental Humanities Undergraduate Research Group is a collective of students exploring how matters of the environment can be understood through a humanistic lens. As we do so, we seek to dive into the untold narratives of physical and social environments. Join us in breaking the boundaries of your academic discipline and engaging with student researchers in other fields! This event is free and open to all undergraduates, graduates, faculty, and community members. This event is supported by a grant from the Andrew W. Mellon Foundation.

Main Presenters and Organizers

Humanism and Urban Agriculture: Truth and Wisdom in City Planning
Clara Pokorny, Sophomore, Urban & Regional Planning, FAA
IPRH-Mellon Environmental Humanities Undergraduate Intern 2018-2019

Green Gentrification: Deconstructing the ‘Rails to Trails’ Narrative in Chicago
Juan M Luna Nunez, Senior, Urban & Regional Planning, FAA
IPRH-Mellon Environmental Humanities Undergraduate Intern 2018-2019

Navigating Human Responses to the Chernobyl Nuclear Disaster
April Wendling, Senior, Earth Society & Environmental Sustainability and Geography, LAS
IPRH-Mellon Environmental Humanities Undergraduate Intern 2018-2019

Main Presenters will also be joined by other student presenters.

Department of Economics
Economics Research Symposium
Thursday, April 25, 5:00 PM – 7:00 PM
David Kinley Hall, Room 119

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 conducted research. Some of the research is in proposal form, or will be ongoing, while others are completed projects.
ILLINOIS
Undergraduate Research Week
Symposium

April 18
Illini Union

Department of History Undergraduate Research Symposium

Saturday, April 27, 2:00 PM – 3:30 PM
Levis Faculty Center, 919 W. Illinois Street, Urbana, Illinois, Room 314

The Symposium will include presentations by students of their senior theses, as well as other undergraduate History research projects.

Living-Learning Communities Researchers Initiative Poster Symposium

Sunday, April 28, 4:00 PM — 6:00 PM
Florida Avenue Residence Halls, Oglesby Pagoda

The Researchers Initiative, in its 11th year, has gone from four participants in its inaugural year, to 89 this academic year. The program provides access to research opportunities for a diverse student body residing in University Housing. First- and second-year students are matched with faculty members to work on faculty, postdoc, and graduate student projects. Posters reflect students’ work across a variety of disciplines.

ORAL AND PERFORMANCE SESSIONS

Economics, Culture, and Policy
9:15 AM — 10:15 AM, Room 209

An Update on NAFTA Trade Arbitration: Why Trade Matters and How it Impacts U.S. Agriculture
Daniel Hom, Senior, Agricultural & Consumer Economics, ACES

Development of a Contextual Project Predictive Tool for the Organization ENACTUS
Ryan Lake, Freshman, Civil Engineering, ENG

Effects of the US-China Tariff War on US Automobile Industry
Himanshi Sharma, Freshman, Mathematics & Computer Science, LAS

Innovation in Healthcare
9:15 AM — 10:15 AM, Room 215

Adverse Birth Outcomes among Specific Multiracial Combinations
Alexandra Kontos, Junior, Social Work, SSW

Characterizing a Doxycycline-Inducible Hepatocyte-Specific Mouse Model of Myotonic Dystrophy Type 1
Andrew Gupta, Junior, Biochemistry, LAS

IMAGE OF RESEARCH

On Display 9:00 AM—4:30 PM
Illini Room B

The Image of Research is a multidisciplinary competition celebrating the diversity and breadth of undergraduate student research at the University of Illinois at Urbana-Champaign. All undergraduate students were invited to submit entries consisting of an image and brief text that articulates how the image relates to the research.

Awards:

First prize: $300
Second prize: $200
Two honorable mentions

The judges for 2019:
Karen Rodriguez’G, PhD, Director, Office of Undergraduate Research
Merinda Kaye Hensley, Associate Professor and Digital Scholarship Liaison and Instruction Librarian, University Library
Piper Martin, Assistant Professor, Research Information Services, University Library
Ruthann Miller, Visiting Assistant Professor, Rare Book and Manuscript Library, University Library
Lisa Hinchliffe, Professor/Coordinator for Information Literacy Services & Instruction, University Library; Affiliate Faculty, School of Information Sciences

To view past entries, please visit:
http://imageofresearch.omeka.net/

The Image of Research is organized by the Scholarly Commons of the University Library and the Office of Undergraduate Research and is supported by a generous gift to the Scholarly Commons from the Division of Intercollegiate Athletics.
**Differential Gene Expression in Two Metastatic Breast Cancer Tumor Types**
Amanda Hunt, Junior, Molecular & Cellular Biology, LAS

**‘Material’ Transformations**
9:15 AM — 10:15 AM, Room 314A

An Investigation of Augusti Cistophori (Cistophorus coins of Emperor Augustus) Coinage: The Economic value, Circulation and its Transition in Design
Zhaojun Wang, Junior, History, LAS

**Health and Marginalized Populations**
9:15 AM — 10:15 AM, Room 404

Cancer Beliefs among Latino Adults
Brenda Munguia, Senior, Community Health, AHS

Depression among Males who are incarcerated
Amber Shields, Senior, Human Development & Family Studies, ACES

**Cultures of Education**
9:15 AM — 10:15 AM, Room 406

Evaluating Quantitative Scoring Methods for Students Extended Responses to Science Questions After Nature-based and Indoor Lessons
Ola Hajeisa, Junior, Natural Resources & Environmental Sciences, ACES

Multiculturalism and Education between the United States and China
Sin Teng Ma, Junior, Early Childhood Education, University of Macau
Hoi Ieng Leong, Junior, Accounting, University of Macau
Un Teng Ieong, Junior, Civil & Environmental Engineering, University of Macau

**Cosmic Questions**
9:15 AM — 10:15 AM, Room 407

Close Encounters of the Supernova Kind: Rates and Threat Assessment of Near Earth Cosmic Explosions
Ashvini Krishnan, Senior, Astronomy, LAS
Danylo Sovgut, Sophomore, Astronomy, LAS
Alexandra Trauth, Sophomore, Astronomy, LAS

Explosions in the Sky: Searching for the Next Galactic Supernova
Chauncey Murphey, Junior, Astronomy, LAS
Jacob Hogan, Junior, Astronomy, LAS

The Three Minute Prelude to the 13.8 Billion Year Symphony
Charles Young, Junior, Computer Science & Astronomy, LAS

**Toxic Invaders & Cellular Mechanisms**
10:45 AM — 11:45 AM, Room 209

The Great Escape: Determination of Host Cellular Machinery Required for the Escape of Bacillus anthracis from Immune Cells
Aleyna Brunner, Senior, Integrative Biology, LAS

The Genotoxin’s Stratagem: Sub-nuclear Localization and DNA Damage by Cytolethal Distending Toxin in the Host Cell
Nirvani Jairam, Junior, Biochemistry, LAS

The Providence: Elucidating a Nuclear Host Factor Necessary for CDT-Mediated DNA Damage
Bryce Hendren-Santiago, Senior, Molecular & Cellular Biology, LAS

**Brain ‘Maps,’ Model Monomers, and Novel Microstructures**
10:45 AM — 11:45 AM, Room 215

3D Murine Brain Cartography in a Murine Model of Traumatic Brain Injury: Reconstruction using Spatial Light Interference Microscopy (SLIM)
Bianca Savant, Freshman, Biology, LAS

Empirical Model of the Mass Transfer in Diffusion-Limited Emulsion Co-Polymerization
Thomas Johnston, Junior, Chemical Engineering, LAS

Porous Silicon as a Material for Novel Optical Applications
Andrea Perry, Junior, Materials Science & Engineering, ENG

**Questions of Credibility: Falsified Findings & Disinformation**
10:45 AM — 11:45 AM, Room 314A

Continued Citation of a Fraudulent Clinical Trial Report, Ten Years after it was retracted for Falsifying Data
Di Ye, Senior, Statistics, LAS
Undergraduate Research Symposium
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Influence of Disinformation on Stereotype Endorsements and Media Credibility
Hannah Overbye, Senior, Communication, LAS

The Importance of Talking about Social Problems
Shayne Snyder, Senior, Psychology, LAS
Samantha Scheck, Senior, Human Development & Family Studies, ACES

Novel Solutions for Environmental Challenges
10:45 AM — 11:45 AM, Room 404
Challenges of Developing Reclaimed Water Markets in the U.S.
Allisa Hastie, Junior, Civil Engineering, ENG

Engineering Considerations for the Design of Strong and Easily-Recyclable Plastics
Alayna Johnson, Junior, Chemistry, LAS

Utilizing Strontium, Chromium, and Selenium Stable Isotope Signatures to Track Coal Ash Contamination
Robert Hill, Senior, Geology, LAS

Effective Pedagogical Approaches
10:45 AM — 11:45 AM, Room 406
A Comparison on Teaching English to Speakers of Other Languages (TESOL) Strategies in How They Differ in Macau and the U.S.
Su Kei Un, Junior, English Education, University of Macau
Sok Man Lei, Junior, Psychology, University of Macau

An Exploration of Student Success and Subject Matter in the Writing Center
Katherine Powers, Junior, Creative Writing, LAS

Cherish Recera, Sophomore, English, LAS

Biotechnology
10:45 AM — 11:45 AM, Room 407
Fine-tuning the Rhythmic Expression and Activity of a Transcription Factor Through Alternative Splicing
Kristina Slaby, Junior, Molecular & Cellular Biology, LAS

Soluble Zwitterionic Poly(sulfobetaine) Destabilizes Proteins
Elizabeth Murphy, Junior, Chemistry, LAS

The Effect of Transplanted Exercised vs. Sedentary Microbiome on Gene Expression in Gnotobiotic Mice
Selena Wang, Junior, Interdisciplinary Health Sciences, AHS
Do Yeon Kim, Senior, Agricultural & Biological Engineering, ENG

Youth Education
1:45 PM — 2:45 PM, Room 209
Dancing through Life Science: A STEAM Education Case Study on Arts Integration at the Elementary Level
Colleen Brown, Senior, Dance, FAA

Gauging Environmental Stewardship through the Perspectives of Black Youth
Tiarra Hill, Senior, Psychology, LAS

Young Children Learn to Predict Nouns from Novel Verbs after Listening to Sentences
Yuman Li, Senior, Psychology, LAS

Examining Socio-cultural Stereotypes
1:45 PM — 2:45 PM, Room 215
Melissa McCarthy: Transgressing Expectations of Fat, Funny, and Female
Taylor Vidmar, Junior, Creative Writing, LAS

Sexual Satisfaction and Constraints in Later Life: Insights from LGBT Older Adults
Sonia Cabrera, Senior, Community Health, AHS

Understanding the Intersection of Race and Sexuality through Shame and Pride: A Qualitative Study with Sexual Minority Adolescents
Scarlett Davalos, Senior, Social Work, SSW
Ariana Flores, Senior, Social Work, SSW

Artistic Expression
1:45 PM — 2:45 PM, Room 314A
Dhyana Yayin: A Moving Meditation
Danielle Mastricola, Senior, Dance, FAA

Nona: A Radio Drama
Federico Hernandez Nater, Junior, Music Technology, FAA

Teaching Turntablism - DJing in the Music Classroom
Brendon Culloton, Sophomore, Music Education, FAA

Coded Social Structures: Race, Sex, and Power
1:45 PM — 2:45 PM, Room 404
Conversion and Difference in Othello
Hsinju Chen, Junior, Electrical & Computer Engineering, ENG

What House Are You In? The Glamorous Hierarchy of Greek Life
Julia Morrison, Sophomore, New Media, FAA
Genomic Biology
1:45 PM — 2:45 PM, Room 406

A Genetic Approach to Identify the Regulator of the hilD 3'UTR in Salmonella
Wangchen Shen, Senior, Molecular & Cellular Biology, LAS

Genome Engineering in Human-induced Pluripotent Stem Cells with Improved Efficiency of CRISPR/Cas9 Mediated Knock-in
Yuanqing Lan, Senior, Biochemistry, LAS

Trafficking of a Bacterial Toxin in Human Cells
Michael Cunningham, Senior, Molecular & Cellular Biology, LAS

Examining the Institution: University of Illinois Initiatives and Innovations
1:45 PM — 2:45 PM, Room 407

Researching and Participating in Innovation at Illinois with the Illinois Distributed Museum
Jensen Rehn, Junior, History, LAS
Donte Winslow, Senior, History, LAS

Technology Adoption and Cyber-security Threats: A Case Study about the Implementation of Two-factor Authentication at the University of Illinois at Urbana-Champaign
Jaeseung Lim, Senior, Advertising, COM
Sinead Kelly, Senior, Advertising, COM
Elizabeth LeDuc, Senior, Advertising, COM

The University of Illinois Impact of Locals in the Champaign-Urbana Area (specifically focusing on MTBD fares and displacement through the building of apartments)
Sabah Hussain, Sophomore, Economics, LAS

Technology and Innovation
3:15 PM — 4:15 PM, Room 209

Lightweight Predictive Modelling for Determining Defect Levels in Semiconductors
Sergi Castells, Junior, Engineering Physics, ENG

Nano-manufacturing of Highly-uniform 0D/1D/2D Metamaterials via Large-scale Self-assembly
Ziran Zhou, Senior, Mechanical Engineering, ENG

Untethered Control of Annelid-inspired Locomotion using Bi-Stable Origami Towers in an Origami Crawling Robot
Sumanyu Singh, Senior, Mechanical Engineering, ENG

Local and Global Cultures
3:15 PM — 4:15 PM, Room 215

Clients Perspective on International Engineering Projects
Julissa Nunez, Junior, Integrative Biology, LAS

Mainland China’s Image as a Tourist Destination – A Perspective from American College Adults
Zijie Yan, Junior, Hospitality & Gaming Management, University of Macau

East vs. West: An Exploration between Hong Kong and U.S. Learning Approaches
Wendi Ding, Junior, Early Childhood Education, EDU

Human Diet and Health
3:15 PM — 4:15 PM, Room 314A

Evaluation of the Changes in Composition of Pork Chops during Cooking
Katelyn Gaffield, Senior, Animal Sciences, ACES

Potato Ingestion: An Alternative Nutritional Strategy to Support Prolonged Endurance Cycling
Adriana Miltko, Senior, Kinesiology, AHS

Unveiling the Physiological Role of Vitamin A in Macrophage Polarization and Atherosclerosis
Abu-Bakr Malik, Junior, Molecular & Cellular Biology, LAS

Economies: Structures and Scales
3:15 PM — 4:15 PM, Room 404

How do Social Skills Relate to Mental Health and Social-economic Status among High School Students?
Thomas Bates, Senior, Social Work, SSW

The Effect of Self-Monitoring Techniques in Managing the Classroom Behavior of ADHD Students
Savannah Gregory, Freshman, Elementary Education, EDU

Provider Perspectives on Food Insecurity and Perinatal Mood Disorders
Samantha Noehre, Senior, Community Health, AHS

Economies
3:15 PM — 4:15 PM, Room 406

A Comprehensive Overview of the Tanzanian Fertilizer Market
Daniel Hom, Senior, Agricultural & Consumer Economics, ACES

The Investigation of the Environmental and Economic Implications of Contextual Engineering in Rural Areas
Lavanya Upadhyaya, Freshman, Engineering Physics, ENG
Analyzing the Relationship between Investment Conditions, the Small Firm Effect, and the Efficient Market Hypothesis

Ajay Dugar, Junior, Mechanical Engineering, ENG

Animal Ecology and Behavior

3:15 PM — 4:15 PM, Room 407

A Novel Form of Altruism: Amphiprion ocellaris Non-Breeders Step-Father Unrelated Eggs after the Removal of the Breeding Pair

Elizabeth Phillips, Senior, Psychology, LAS

New Songs in the Deep: A Passive Acoustic Analysis of the Temporal and Spatial Distribution of Omura’s Whales (Balaenoptera omurai)

Bridget Mueller-Brennan, Senior, Mathematics, LAS

Shape Variation Between Venomous and Non-Venomous Catfishes of the Superfamily Aspredinoidea (Siluriformes)

Jemima Elsherbini, Junior, Integrative Biology, LAS

POSTER SESSIONS

PA SESSION — SCIENCE AND MATHEMATICS

9:00 AM — 10:15 AM, Illini Room A

A Bench Stable Reagent for Highly Stereoselective Allylation

Aidan Kelly, Junior, Biochemistry, LAS

Effects of Ttpa Protein Knockout on Hepatic Vitamin E Mobilization

James McQueen, Senior, Food Science & Human Nutrition, ACES

Analyzing Data Visualization Tools for Effectiveness of Network Analysis

Yi Shian Ho, Freshman, Economics, LAS
Min Cheong Kim, Freshman, Philosophy, LAS
Nitish Natarajan, Freshman, Statistics & Computer Science, LAS

Artifact Suppression for Structure Calculations with Non-Uniformly Sampled NMR Data

Christopher Dennis, Senior, Chemistry, LAS

Biodistribution of Exosomes Using Noninvasive Imaging

Anand Haran, Junior, Molecular & Cellular Biology, LAS

Characterization of Visual Input Patterns from the Superior Colliculus to the Lateral Cortex of the Mouse Inferior Colliculus

Diana Masolak, Senior, Molecular & Cellular Biology, LAS

An Examination of Salivary microRNAs as Biomarkers for Mild Traumatic Brain Injury

Katherine Anderson, Senior, Molecular & Cellular Biology, LAS

Determining the Factors that Influence Metal Acquisition of Cambialistic Superoxide Dismutases

Ying Zhou, Senior, Molecular & Cellular Biology, LAS

Did President Trump Write All of His Tweets or NOT During His Presidential Campaign?

Emma Tseng, Junior, Computer Science & Linguistics, LAS

Differences in Muscle Protein Synthesis of Cluster and Traditional Sets is Not Explained by mTORC1-related Protein Phosphorylation

Alexander Keeble, Junior, Kinesiology, AHS

Dzip Regulates Localization of Germplasm mRNA by Interacting with Velo

Rahul Maini, Junior, Molecular & Cellular Biology, LAS

Effect of Functional Set Size and Contextual Guidance in Efficient Visual Search Task

Jiahao Zhou, Senior, Psychology, LAS

Effects of Breeding Peak Phenology on Avian Malaria Transmission Model

Megan Resurreccion, Junior, Creative Writing, LAS

Endolysin Evaluation for Use against Listeria monocytogenes

Katherine Warzocha, Senior, Molecular & Cellular Biology, LAS

Enhancing Promiscuous Biotinylation via Site-Directed Mutagenesis

Michelle Meas, Senior, Molecular & Cellular Biology, LAS

Exploring How the DNA Damage Response Reduces Cellular snail Levels

Michidmaa Enkhbaatar, Senior, Biology, LAS

Identification of HiiD-Protein Interactions Utilizing a Proximity Dependent Biotin-Protein Ligase, BirA*

Thomas Cyberski, Senior, Molecular & Cellular Biology, LAS

Interannual and Interspecific Variability in Coral Resilience to Thermal Stress in the Turks and Caicos Islands during the 2014-2017 Global Coral Bleaching Event

Abigail Knipp, Senior, Earth, Society & Environmental Sustainability, LAS

Ion Concentrations and Pyrite Weathering Across a Deep Vadose Zone, Eel River Critical Zone Observatory, Northern California

David Raynes, Senior, Geology, LAS

Measures of a Healthier Brain are Associated with Higher Levels of Intelligence

Sahiti Kolli, Senior, Statistics, LAS
Mechanisms of Acquired Resistance to Cisplatin in Testicular Germ Cell Tumors (TCGTs)

**Alyssa Steege**, Senior, Molecular & Cellular Biology, LAS

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Micro-mechanics of Meiotic Chromosomes in Prophase I of Meiosis

**Pranathi Karumanchi**, Junior, Biology, LAS

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Modular Connectivity in the Expression Between GAD-67 and Calcium Binding Proteins parvalbumin and calretinin in GFP Transgenic Mice

**Danica Vendiola**, Senior, Molecular & Cellular Biology, LAS

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Nanopatterned Thin Film Heterostructures as a Majorana Platform

**Xiuting Wu**, Senior, Engineering Physics, ENG

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Near-Surface and High Resolution Satellite Remote Sensing Time Series for Understanding Crop Phenological Responses to Climate Change

**Geyang Li**, Senior, Geography & Geographic Information Science, LAS

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Overlap in Cortico-collicular Cells and Clgt Expressing Cells in Layer 5 of Auditory Cortex

**Kavyakrishna Nair**, Senior, Molecular & Cellular Biology, LAS

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Pairs of Disjoint Matchings

**Ali Guo**, Junior, Mathematics, LAS

**Kieran Kaempen**, Sophomore, Mathematics & Computer Science, LAS

**Zhengda Mo**, Freshman, Mathematics, LAS

**Joseph Rogge**, Junior, Mathematics & Computer Science, LAS

**Claire Song**, Sophomore, Mathematics and Statistics, LAS

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Pd(II)/SOX Catalyzed Allylic C-H Amination for the Synthesis of Naftifine Derivatives

**Andria Pace**, Junior, Chemistry, LAS

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Chelation of Metals onto Biliverdin Nanoparticles for Magnetic Resonance Imaging (MRI)

**Ayman Roslend**, Freshman, Chemistry, LAS

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Propagation of Eimeria Oocysts

**Zeyi Moo**, Freshman, Agricultural & Biological Engineering, ACES

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Polypyrrolidime Tract-binding Protein 1 (PTBPI) Deficiency Heightens Toxin induced Cholestasis

**Miranda Gurra**, Senior, Biochemistry, LAS

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Regulation of Cell Cycle Progression in Cancer Cells

**Mariam Arif**, Junior, Molecular & Cellular Biology, LAS

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Sacrificial Cyclic-Poly(Phthalaldehyde) Templates for Low-Temperature Vascularization of Polymer Matrices

**Adam Ladd**, Senior, Materials Science & Engineering, ENG

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Study the Role of hnRNP I in Regulating Toll-like Receptor Signaling in the Intestine

**Krissy Chin**, Senior, Molecular & Cellular Biology, LAS

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Synolog: A Pipeline for the Study of Genome Evolution Using Conserved Synten

**Neelima Valluru**, Freshman, Biology, LAS

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The Effect of Combined Targeting of ER? and XPO1 on Akt Pathway and Cell proliferation in ER? (+) Breast Cancer

**Kevin Duong**, Senior, Molecular & Cellular Biology, LAS

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The Effect of The Intracellular Domain Being Removed in E-cadherin

**Diana Greiner**, Junior, Molecular & Cellular Biology, LAS

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Distinguishing Cause and Effect Using Statistical Methods: An Empirical Study

**David Zhang**, Senior, Mathematics & Computer Science, LAS

**Eli Yu**, Senior, Statistics & Computer Science, LAS

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A Novel Approach to Encapsulate Homogeneous Catalysts

**Muneeb Ansari**, Senior, Chemistry, LAS

**Sufyan Baig**, Freshman, Chemistry, LAS

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**PB SESSION — HEALTH AND WELLNESS**

**9:00 AM — 10:15 AM, Illini Room C**

Abriendo Caminos: Empowering At-risk Communities Affected By Natural Disasters by Promoting Health & Wellness in Puerto Rico

**Carolina Kuhl**, Senior, Human Development & Family Studies, ACES

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Antitumorigenic Properties of Omega-3 Endocannabinoid Epoxides

**In Sup Hong**, Senior, Biochemistry, LAS

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Associations between Pre-treatment Body Mass Index and Post-treatment Nutrition Impact Symptoms in Head and Neck Cancer Survivors

**Katherine Douglas**, Junior, Food Science & Human Nutrition, ACES

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Autism Spectrum Disorder Diagnosis in Down syndrome

**Jennifer Goodfriend**, Junior, Interdisciplinary Health Sciences, AHS

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Bile Acids Contribute to the Gender-Biased Incidence of HCC

**Lauren Taylor**, Senior, Molecular & Cellular Biology, LAS

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**BRAIN study**

**Rachel Zarky**, Junior, Economics, LAS

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Construction of Knee Simulator

**Hartikrishnan Kumar**, Junior, Mechanical Engineering, ENG
Custody Decisions in Divorce Cases With and Without IPV: Do Maternal Characteristics Play a Role?

Chloe Weiss, Senior, Human Development & Family Studies, ACES
Natalie Cheng, Sophomore, Human Development & Family Studies, ACES

DAILY Balance Project
Alanna Wong, Senior, Interdisciplinary Health Sciences, AHS
Leonardo Guzman, Junior, Kinesiology, AHS
Gabriele Urbonaite, Senior, Psychology, LAS

Daily Self-weighing as a Method for an Individualized Diet Improvement Weight Loss Program (iDip) for Overweight and Obese Adults
Mayu Mizuki, Senior, Food Science & Human Nutrition, ACES
Tingxuan Li, Senior, Food Science & Human Nutrition, ACES

Differences in Bile Acid Pool Composition by Body Weight Status Among Adults with Overweight and Obesity
Judith Wen, Junior, Food Science & Human Nutrition, ACES

Effects of Assistive Living on the Health of Older Populations
Kathy Tran, Sophomore, Community Health, AHS

Endocannabinoid Virodhamine Study Reveals Inhibiting Activity on Human Cardiovascular CYP2J2 Epoxigenase
Diane Wei, Junior, Molecular & Cellular Biology, LAS

Iterative Synthesis of Csp3 Rich Small Molecules by using Bifunctional Carbenoid-Borane Building Blocks
Sriyankari Chitti, Sophomore, Chemistry, LAS

Long-Read Sequencing Reveals Complex Transcript Population for Human Housekeeping Enzyme
Ben Nordick, Sophomore, Molecular & Cellular Biology, LAS

Mutually Responsive Orientation and its Relation with Child Temperament and Maternal Depressive Symptoms
Shreya Patel, Senior, Human Development & Family Studies, ACES

Quantification of Bacterial Pathogens in Water and Household Surroundings in Rural Nepal: Pre-intervention Scenario
Marika Maggos, Senior, Molecular & Cellular Biology, LAS

Real People with Diabetes 6-Month Patient Interviews
Holly Stallard, Junior, Food Science & Human Nutrition, ACES

Relationships between the Human Gastrointestinal Microbiota and Sleep Quality
Sean Sheth, Senior, Molecular & Cellular Biology, LAS

Simplex Study
Rachel Woods, Junior, Kinesiology, AHS

TDP-43 Gene Correlated to Infertility in Men
Madi Timken, Junior, Interdisciplinary Health, AHS

The Effect of Genotype on the Possible Impact of Dietary Consumption of Monounsaturated Fatty Acids on Blood Lipid Levels
Sarah Zwick, Senior, Molecular & Cellular Biology, LAS

The Effects of Individual and Combined Drug Treatments on Drug-Resistant Breast Cancer Cell Lines
Rithva Ramesh, Freshman, Biology, LAS

The Effects of Vitamin D3, Vitamin B12, and Vitamin K on the Differentiation of Adipose-Derived Stem Cells (ASC) into Osteoblasts
Thomas Bane, Senior, Molecular & Cellular Biology, LAS

Understanding the Challenges and Solutions of Maintaining Diet and Nutrition for Older Adults Aging with Mobility Impairment
Jennifer Lee, Sophomore, Interdisciplinary Health Sciences, AHS

Utility of Artificial intelligence Technology in the Field of Speech-Language Pathology: A Literature Review
Kathleen Dowling, Junior, Speech & Hearing Science, AHS

Utilizing Machine Learning to Examine the Impact of Dietary Composition on the Human Gastrointestinal Microbiota and Metagenome
Aditya Mansharamani, Freshman, Computer Science, ENG

Cancer Survivors Exercise Preferences and Outcome Expectations
Eunice Kim, Sophomore, Kinesiology, AHS
Madison Catalano, Sophomore, Kinesiology, AHS

The Effect of Background Noise and Dysphonia on Vowel Identifiability: A Classroom Study
Monique Martinez, Senior, Speech & Hearing Science, AHS
Searam Park, Senior, Speech & Hearing Science, AHS

Reliability of Perceptual Assessment of Vocal Fry among Bilingual English-Spanish Speakers
JosseMia Webster, Senior, Speech & Hearing Science, AHS
Charles Nudelman, Senior, Speech & Hearing Science, AHS

An Investigation into the Increase of Cannabis Use Among the Middle-Aged and Older Adult
Katherine Florence, Junior, Interdisciplinary Health Sciences, AHS
Cydney Natzke, Junior, Interdisciplinary Health Sciences, AHS

The Effects of Breathiness on Vowel Intelligibility
Aubrey Stegich, Senior, Speech & Hearing Science, AHS
Veronica Lane, Junior, Speech & Hearing Science, AHS
PC SESSION — EDUCATION, SOCIAL SCIENCES, AND HUMAN BEHAVIOR

9:00 AM — 10:15 AM, South Lounge

A Feasibility Study Using “Off-the-Shelf” Automatic Speech Recognizer for Measuring Intelligibility Deficit in Dysphonic Speech

**Theresa Murphy**, Senior, Speech & Hearing Science, AHS

**Marissa Happ**, Senior, Speech & Hearing Science, AHS

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A Spatial Analysis of the Relationship between Message Frames and Ecological Conditions in the Aquatic Invasive Species Literature

**Meggie Gaddy**, Junior, Natural Resources & Environmental Sciences, ACES

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A Systematic Review of Women Involved in the Criminal Justice System: Intersections with Intimate Partner Violence and the Child Welfare System

**Leyda Garcia-Greenawalt**, Junior, Social Work, SSW

**Shameem Razack**, Junior, Gender & Womens Studies, LAS

**Bradley McLain**, Senior, Psychology, LAS

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An Exploration of the Association between Attachment and Relationship Quality

**Katie Malcharek**, Sophomore, Human Development & Family Studies, ACES

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The Relations between Breastfeeding Duration, Child Temperament, and Executive Function

**Isabel Digan**, Senior, Human Development & Family Studies, ACES

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An Investigation of the Effects of the EJP

**Roman Sentowski**, Freshman, Special Education, EDU

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Can Video Games Like Minecraft Stimulate Children’s Interest in Science? How Do Middle School Science Learners Explore Virtual Worlds Designed To Trigger Their Interests?

**Sze Chai Leung**, Freshman, Early Childhood Education, EDU

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Separate Spheres: Gender Norms, Disgust Sensitivity, and Political Ideology

**Casey Griffin**, Junior, Political Science, LAS

**Matthew Carlins**, Senior, Political Science, LAS

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Sexual Exploitation and Abuse in UN Peacekeeping Missions: reconceptualizing immunity and accountability

**Nair Banks**, Senior, Political Science, LAS

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Your Image of the Child: Where Teaching Begins

**Alexandra Kirchens**, Freshman, Middle Grades Education, EDU

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PD SESSION — SCIENCE AND MATHEMATICS

10:45 AM — 12:00 PM, Illini Room A

2D Image Analysis to Describe Pore Geometry: A Case Study using the Mississippian Cypress Sandstone, Illinois Basin

**Erich Ceisel**, Senior, Geology, LAS

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Activation of Glioblastoma Invasion and Stem-Like Cells by Extracellular Hyaluronan and Hypoxia

**Sarah Leary**, Junior, Chemistry, LAS

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Allelic Variation of Intermediate Enzymes Involved in the Terpenoid Indole Alkaloid Pathway in Camptotheca acuminata

**Allison Krunnfusz**, Senior, Molecular & Cellular Biology, LAS

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An Investigation of Visualization Tools for Computer Chips

**Sharanya Balaji**, Junior, Mathematics & Computer Science, LAS

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Biochemical Studies of Methanosarcina acetivorans FtsZ Proteins

**Lucas George**, Senior, Molecular & Cellular Biology, LAS
Body Shape Variation among Catfishes of the Superfamily Pimelodoidea (Siluriformes)  
**Isabella Sadler**<sup>1</sup>, Junior, Integrative Biology, LAS

Characterization of Furanocoumarin-metabolizing P450s in *Depressaria pastinacella*  
**Rachel Benedeck**<sup>2</sup>, Senior, Molecular & Cellular Biology, LAS

Characterizing Virulence Genes in the Pumpkin Bacterial Pathogen *Xanthomonas cucurbitae*  
**Tanvi Majumdar**<sup>3</sup>, Senior, Natural Resources & Environmental Sciences, ACES

Close Encounters of the Supernova Kind: Rates and Threat Assessment of Near Earth Cosmic Explosions  
**Ashvini Krishnan**<sup>4</sup>, Senior, Astronomy, LAS  
**Danylo Sovgut**<sup>5</sup>, Sophomore, Astronomy, LAS  
**Alexandra Trauth**<sup>6</sup>, Sophomore, Astronomy, LAS

Comparison of Oxygen and Carbon Stable Isotopes in Terrestrial Snail Shells from Modern, Illinois Episode and Wisconsin Episode Glaciation near St. Louis, MO  
**Catherine Nield**<sup>7</sup>, Senior, Geology, LAS

Continuous Regular Function  
**Ruoyu Meng**<sup>8</sup>, Senior, Mathematics, LAS  
**Zihe Wang**<sup>9</sup>, Senior, Statistics & Computer Science, LAS  
**Ziqin Xiong**<sup>10</sup>, Senior, Mathematics, LAS

Creating Interactive Scientific Visualization in Unity Game Engine  
**Jasmine Shih**<sup>11</sup>, Senior, Computer Science, ENG

Data Mining Graduate School Admissions  
**Peiyun Zou**<sup>12</sup>, Senior, Mathematics, LAS  
**Danjin Jiang**<sup>13</sup>, Senior, Mathematics, LAS

DNA Damage Disrupts Intestinal Crypt Homeostasis  
**Yingxing Li**<sup>14</sup>, Junior, Biochemistry, LAS

Effect of Sleep on Relational Memory  
**Man Sze**<sup>15</sup>, Senior, Psychology, LAS

Error-Resilience of Object-Detection Networks  
**Alex Nobbe**<sup>16</sup>, Freshman, Engineering Physics, ENG

Exploration of Proteasome Localization in regard to Primordial Germ Cell Development  
**Hajera Afreen**<sup>17</sup>, Junior, Molecular & Cellular Biology, LAS

Genetic and Biochemical Studies of Archaeal Replication Protein A (RPA)  
**William Totura**<sup>18</sup>, Senior, Molecular & Cellular Biology, LAS

Homological Algebra of Quiver Representations  
**Jinghui Yang**<sup>19</sup>, Sophomore, Mathematics, LAS  
**Songling Zhou**<sup>20</sup>, Senior, Economics, LAS  
**Zac MacAdam**<sup>21</sup>, Junior, Mathematics, LAS

Investigating Dynamics of Genomic Loci-Nuclear Body Association  
**Wiktoria Kowalczyk**<sup>22</sup>, Junior, Molecular & Cellular Biology, LAS

Investigating the Effect of Cation Substitution on Listeria Endolysin Activity  
**Lauren Passwater**<sup>23</sup>, Sophomore, Bioengineering, ENG

Investigation of Spatio-chemical Organization of the Mouse Eye Using Mass Spectrometry Imaging  
**Kenyana Tyiska**<sup>24</sup>, Junior, Biochemistry, LAS

Investigation of the Roles of ORCA, ORC and RNF126 in DNA Damage Response  
**Samrudhi Joshi**<sup>25</sup>, Junior, Molecular & Cellular Biology, LAS

Lipophilicity Ceiling Governs Small-Molecule Mediated Transmembrane Metal Transport  
**Peng-Jui Chen**<sup>26</sup>, Sophomore, Chemistry, LAS

Multimodal Imaging of the Receptor for Advanced Glycation End-products with Molecularly Targeted Nanoparticles  
**Stanley Fayn**<sup>27</sup>, Junior, Molecular & Cellular Biology, LAS

Optically Trapped *R. sphaeroides*  
**Kaitlin Sumler**<sup>28</sup>, Senior, Molecular & Cellular Biology, LAS

Propagation of the Ligand-binding Signal through Neurotransmitter-gated ion Channels: A Study of cys-loop Receptors  
**Nicole Godellas**<sup>29</sup>, Senior, Molecular & Cellular Biology, LAS

Recombination Frequencies across the Salmonella Pathogenicity Island 1 Locus  
**Sara Araghi**<sup>30</sup>, Senior, Molecular & Cellular Biology, LAS

Role of Proximal H-bonding Triad on Heme-Copper Oxidase Activity  
**Stephanie Ouchida**<sup>31</sup>, Junior, Biochemistry, LAS

Salmonella AvrA can Trigger Oncogenic Activity  
**Habib Benchehida**<sup>32</sup>, Junior, Biochemistry, LAS  
**Santosh Sudhakar**<sup>33</sup>, Junior, Molecular & Cellular Biology, LAS  
**Pranukh Sreerama**<sup>34</sup>, Junior, Psychology, LAS  
**Idris Kuti**<sup>35</sup>, Senior, Mathematics, LAS

Sharp Bounds for the Directed Postman Problem  
**Annamily Hoganson**<sup>36</sup>, University Laboratory High School  
**Lorraine Bernhard**<sup>37</sup>, University Laboratory High School  
**Katherine Ahlgren**<sup>38</sup>, University Laboratory High School
Strain Distribution of Barbed and Smooth Suture via Digital Image Correlation in a Cadaveric Canine Staphylectomy Model
James Nie, Senior, Mechanical Engineering, ENG

Symbiosis of Lactococcus lactis and Saccharomyces cerevisiae
Amie Bott, Senior, Molecular & Cellular Biology, LAS
Pra Nath Karumanchi, Junior, Molecular & Cellular Biology, LAS
Ziyu Wang, Junior, Biochemistry, LAS
Alex Ruzicka, Senior, Biochemistry, LAS
Liam Healy, Senior, Biochemistry, LAS

Temporal Cueing Does Not Meaningfully Improve Duration Judgements
Aidan Healy, Senior, Psychology, LAS

The Effect of Mixture Proportioning on the Relationship between Slump and Yield Stress of Concrete
Benjamin Tung, Senior, Civil Engineering, ENG

The Effects of Maxillary Dental Arch on Singing Power Ratio and the h1-h0 Ratio
Charles Nudelman, Senior, Speech & Hearing Science, AHS
JosseMia Webster, Junior, Speech & Hearing Science, AHS

The Iterated Prisoners Dilemma
Stephen Fan, Junior, Mathematics, LAS
Guangya Wan, Junior, Statistics, LAS
Juntao Zhang, Sophomore, Mathematics, LAS

The Mathematics of Poker-like Games: Discrete and Continuous Extensions of the McAdams Poker Model
Xiangyun Cao, Senior, Mathematics, LAS
Qiaoge Zhu, Senior, Mathematics, LAS

Unexpectedly Complex Computations in a Mollusk’s Peripheral Nervous System
Abigail Boris, Senior, Molecular & Cellular Biology, LAS
Yichen Liu, Senior, Molecular & Cellular Biology, LAS

Visualizing Harmonic Functions
Yuheng Chang, Sophomore, Computer Science, ENG
Baihe Duan, Sophomore, Mathematics, LAS

A Pilot Investigation of Anterior Tilt Among PWC Users
Sarah Mills, Junior, Human Development & Family Studies, ACES

Alpha Oscillations Differ Between Younger and Older Adults During Strategic Attention
Andrea Paolella, Senior, Speech & Hearing Science, AHS

An Examination of Neurobiological Markers for Diagnosis and Treatment of Mild Traumatic Brain Injury
Erin Yang, Senior, Psychology, LAS

Analysis of Biomechanical Ankle Dynamics in Parkinson’s Individuals
Radhe Parikh, Senior, Molecular & Cellular Biology, LAS

Anticancer Therapies in Uterine Leiomyosarcoma PDX Ex Vivo 3D Culture
Aleeza Leder Macek, Senior, Integrative Biology, LAS

Cannabis Use by Older Adults in Illinois
Emily Williams, Sophomore, Community Health, AHS

Chaos in the Home; Its Relationship with Perception of Economic Strain and Restrictive Feeding Practices
Lauren Castaneda, Junior, Chemistry, LAS
Lauren Pangelinan, Junior, Community Health, AHS
Karen Hernandez Patricio, Junior, Community Health, AHS

Detection of Cell Markers in Neonatal Pig Intestinal Cells after Formula Supplementation with Bovine Milk Bioactive Components
Victoria Daniels, Senior, Animal Sciences, ACES

Dietary Advanced Glycation End-products Can Affect Prostate Cancer Development and Response to the Therapy
Jadin Elliott, Sophomore, Chemical Engineering, LAS

Dietary Patterns and Bile Acid Pool Composition among Overweight and Obese Adults With or Without Metabolic Syndrome
Claire Cheng, Senior, Food Science & Human Nutrition, ACES

Differentiation of Liver Progenitor Cells in Defined 3D Microtissues
Krista Habing, Junior, Bioengineering, ENG

Examining the Impact of Prenatal Phthalate Exposure on Social Cognition in 7.5-month-old Infants using the Teddy Bear Task to Assess Theory of Mind
Danah Bakir, Senior, Molecular & Cellular Biology, LAS

Five a Day or Miles Away: Exploring Neighborhood Environment and Fruit and Vegetable Intake among Hispanic Adults
Bianca Rodriguez, Senior, Latina/Latino Studies, LAS
Getting a Head START: Examining the Impact of the Student Aging Researchers in Training Program
Jaclyn Trauscht, Senior, Molecular & Cellular Biology, LAS

Heart Tissue Specific Mechanisms for Translation Regulation
Emelia Smith, Senior, Molecular & Cellular Biology, LAS

Methods of Nutrition Education: Translations of Literal to Visual Approaches in the Afro-Centered Abriendo Caminos Immigrant Program
Daryle Howard, Senior, Interdisciplinary Health Sciences, AHS

Negotiating Healthy Habits around the Dinner Table: Perspectives from Hispanic Mothers
Santiago Duran, Sophomore, Philosophy, LAS
Daniel Reyes, Senior, Psychology, LAS

Regulation of the Hedgehog Pathway by the Ketogenic Diet with Radiation Exposure
Deepa Sharma, Senior, Food Science & Human Nutrition, ACES

Reverse Roles: Caregivers Taking Care of Themselves With Physical Activity
Madison Catalano, Sophomore, Kinesiology, AHS
Eunice Kim, Sophomore, Kinesiology, AHS

Soil Amoebae as Training Grounds for Bacillus anthracis
Lukas Talaga, Junior, Molecular & Cellular Biology, LAS

The Effects of Early Life Trauma on EAE Mouse Model
Sungjong Oh, Senior, Molecular & Cellular Biology, LAS

The Effects of Individualized Diet Improvement Program (iDip) on Weight Loss and Sustainable Weight Maintenance
Chrison Hu, Junior, Food Science & Human Nutrition, ACES
Yijie Cheng, Senior, Food Science & Human Nutrition, ACES
Heidi Killinger, Senior, Food Science & Human Nutrition, ACES

The Influence of Lutein and Choline through Egg Intake on Cognition
William Fairfield, Senior, Kinesiology, AHS
Ashley Garcia, Junior, Interdisciplinary Health Sciences, AHS

The Role of Maternal Depression in the Prevalence of Obesity for Hispanic Children
Mira Patel, Junior, Molecular & Cellular Biology, LAS

The Role of KCNQ2 Mutations in the Pathogenesis of Early Infantile Epileptic Encephalopathy and Neurodevelopmental Disorders
Jaimin Patel, Senior, Molecular & Cellular Biology, LAS

Therapeutic Utility of Nano-technology in Targeting Ovarian Cancer Cells
Anna Vardanyan, Senior, Molecular & Cellular Biology, LAS

Traumatic Brain Injuries in Relation to Neck Muscle Activation and Latency
Nimota-lai Sulaiman, Junior, Kinesiology, AHS

Using High-resolution Respirometry and Fluorometry as a Technique to Study Aging Mitochondria
Seungaha Lee, Junior, Interdisciplinary Health Sciences, AHS

What Is MisSIng?: Insights from MoCA-MIS Scores of Individuals with Amnestic Mild Cognitive Impairment
Jessica Philipp, Junior, Speech & Hearing Science, AHS

Does Dairy Consumption in the First Year of Life Make a Difference in Combating Childhood Obesity?
Shantiera Taylor, Senior, Kinesiology, AHS
Daniel Zolecki, Senior, Anthropology, LAS

A Final Link From a Lost Arctic Expedition: A Letter by Sir John Franklin (1845)
Hanna Jin, Senior, History, LAS
Spenser Bailey, Junior, History, LAS

An EEG Evaluation of the Effects of Cognitive Load on Visual Sensitivity
Alessandra Lanier, Senior, Psychology, LAS

UIUC College Students’ Perceptions Towards the Virtual Reality Cave based on the Motivational Design Model (ARCS)
Sihan Liu, Freshman, Learning & Education Studies, EDU

Parent Advocacy for Students with Disabilities
Elise Blydie, Freshman, Special Education, EDU
Olivia Isaacs, Freshman, Elementary Education, EDU

The Convergence of Behavioral Intervention Plans (BIP) with students with Individualized Education Programs (IEP)
Jorge Boyas, Freshman, Elementary Education, EDU

Coparenting and Attachment: From Toddler to Teen Years
Maria Dracopoli, Senior, Psychology, LAS

Exploring How Adolescents Learn Transferable Social-Emotional Skills in Outward Bound
Natalie Sot, Senior, Human Development & Family Studies, ACES

Improving Communication between Spanish-Speaking Parents and Children with Speech Delays
Blanca Alcantar, Freshman, Special Education, EDU
Maternal Vagal Tone and Child Inhibitory Control: Interactive Contributions to Child Attention and Persistence during a Challenging Puzzle Task

Olamide Oyeyemi, Senior, Human Development & Family Studies, ACES

Most Effective Methods for Student Engagement

Ashley Hornig, Freshman, Elementary Education, EDU

Remote Enculturation: A Strengthening of Identity from Afar

Katrina Blum, Junior, Speech & Hearing Science, AHS

Retirement Realized: Academic and Professional Perspectives

Madison Merdian, Senior, Agricultural & Consumer Economics, ACES

Reuniting Families through Genealogical DNA Testing

Lea Jones, Junior, Molecular & Cellular Biology, LAS

The Effect of Maternal Responsivity on Early Language Development in Children with Down syndrome

Tara Kolmodin, Senior, Speech & Hearing Science, AHS

The role of Familism in Autonomic Nervous System Dysfunction, Cognitive vulnerabilities, and Depression

Raul Espana, Senior, Psychology, LAS

Theory of Mind Understanding and Empathy: Implications for Social Adjustment in Adolescence

Amber Winters, Senior, Psychology, LAS

Transdiagnostic Processes in Emotional Aggression: Interplay of Negative Valence and Cognitive Systems

Kinan Sawar, Senior, Molecular & Cellular Biology, LAS

Transitivity Preference and Social Distances

Xiaozhi Taro Yang, Senior, Psychology, LAS

Vocabulary Learning Through a Keyword Mnemonics Method Application

Xue Yan Chen, Senior, Learning & Education Studies, EDU

What Influence do Children have on their Educational Experience in a Reggio Inspired K/1 Classroom?

Rossy Tejeda, Junior, Food Science & Human Nutrition, ACES

Featured Presentations

Lunch: 12:00 PM – 1:15 PM, Illini Room B

Effects of an Environmentally Relevant Phthalate Mixture of Mouse Neonatal Ovaries

Karen Wang, Sophomore, Psychology, LAS

Water Purification Using Waste Tires

Marko Ivancevic, Senior, Chemical Engineering, ENG

Studying the role of an RNA-binding protein in the control of intestinal stem cell regeneration

Wesley Tung, Senior, Molecular & Cellular Biology, LAS

PG SESSION — SCIENCE AND MATHEMATICS

1:30 PM – 2:45 PM, Illini Room A

A Novel Microphysiological Device for Dorsal Root Ganglia Cell Culture

Yujin Lee, Junior, Bioengineering, ENG

Aging- and Deafening-Related Changes in the Mouse Inferior Colliculus

Vanessa Kalinowska, Senior, Molecular & Cellular Biology, LAS

Almost Beatty Partitions and Optimal Scheduling Problems

Xiaomin Li, Junior, Computer Science, ENG

Carbon-fiber Nanoelectrodes for Detection of Dopamine in vitro

Jordynn Palmer, Senior, Molecular & Cellular Biology, LAS

Characterization of MinD homologs in Methanosarcina acetivorans

Jacob Farris, Senior, Molecular & Cellular Biology, LAS

Characterization of the Vacuolating cytotoxin A (VacA) of Helicobacter pylori by Identifying Toxin Residues that are Important for Toxin Cellular Activity and Binding Activity

Sean MacAllister, Sophomore, Molecular & Cellular Biology, LAS

Chemotherapeutic Modulation of Cardioprotective PUFA Biosynthesis

Swapnil Shah, Junior, Molecular & Cellular Biology, LAS

Click Consonant Phonotactic Learning: An Investigation of Phonotactic Learning with Click Consonants in English Speakers

Seon Hye Yang, Senior, Psychology, LAS

Biochemical Study of CRMP-1 Effect on EVL-mediated F-actin Elongation

Daniel Kim, Senior, Molecular & Cellular Biology, LAS

Deciphering the Sedimentary Rock Record Using Laboratory Experiments: The Patterns of Ripple and Dune Migration

Jack Brown, Senior, Geology, LAS

Decomposition Theorems for Spectra

Xiaomin Li, Junior, Computer Science, ENG

Chengyi Liu, Junior, Mathematics, LAS
Do Blue Skies Drive Away Pollution?
Peter Krawiec, Junior, Statistics & Computer Science, LAS
Hao Qiu, Senior, Statistics, LAS
Philip Dohm, Sophomore, Mathematics, LAS

Effect of Profilin on Cofilin Mediated Actin Disassembly
Adam Cardone, Junior, Molecular & Cellular Biology, LAS

Electrophysiological Data Can Be Used to Validate Anxiety Related Changes in Postural Control
Shruti Shah, Senior, Molecular & Cellular Biology, LAS

Enantioselective Synthesis of Isocarbostyril Alkaloids and Analogs Using Catalytic Dearomative Functionalization of Benzene
Daniel Olson, Senior, Biochemistry, LAS
Anna Welton-Arndt, Junior, Chemical Engineering, LAS

IL15 as a Regulator for Oncolytic Immunotherapy
Abigail Brown, Senior, Molecular & Cellular Biology, LAS
Claire Schane, Senior, Chemistry, LAS

Improvements to Post-Processing in the DES-GW Data Pipeline
Nora Sherman, Senior, Physics, LAS

Influence of Anteroposterior Foot Position on Standing Balance
Milena Singletary, Senior, Kinesiology, AHS

Comparing Trafficking Pathways of Cytotoxic Necrotizing Factor Toxins using Fluorescence Microscopy
Cormac Lucas, Senior, Biochemistry, LAS

Modifying Nanoelectrodes for Ionic Scanning Electrochemical Microscopy (SECM) Measurements at Single Graphene Flakes
Heriberto Flores Jr, Senior, Chemistry, LAS

Monte Carlo Simulation of a Multisphere Neutron Spectrometer based on a CLYC Detector
Stuti Surani, Junior, Nuclear, Plasma & Radiological Engineering, ENG

Nocathiacin, a Potent Antibiotic Against many Gram-positive Infectious Bacteria
Habib Benchehida, Junior, Biochemistry, LAS

Nuclear Receptor, Small Heterodimer Partner (SHP) in the Liver Controls Classical Synthesis of Bile Acids and Their Export
Peter Kolyvas, Junior, Molecular & Cellular Biology, LAS

Optogenetic Activation of the Neurotrophin Pathway in Live Cells
Neeka Haack, Senior, Molecular & Cellular Biology, LAS

Phosphomimetic Mutations in Kv7 Channel Disrupt Key Interactions for Expression
Julianne Yang, Senior, Biochemistry, LAS

Physiological Abnormalities due to Surface Layer Mutations in the Hyperthermophilic Archaeon Sulfolobus islandicus
Emmy Hallett, Senior, Molecular & Cellular Biology, LAS

Random Walk Solutions to the Dirichlet Problem
Yiyin Shen, Sophomore, Mathematics, LAS
Yirui Luo, Sophomore, Mathematics, LAS
Cameron Nachreiner, Sophomore, Physics, LAS
Yitao Meng, Sophomore, Computer Science, ENG

Structure Determination of STA121 Fab
Lauren Mazurkiewicz, Junior, Molecular & Cellular Biology, LAS

Studying Gene Essentiality of Methanosarcina acetivorans via Transposon Mutagenesis
John Parilla, Senior, Molecular & Cellular Biology, LAS

Studying the Age-specific Roles of hnRNP I in Intestinal Homeostasis
Wesley Tung, Senior, Molecular & Cellular Biology, LAS

Synchronous Transitions in Simulated Electrically Coupled Neuronal Networks
Annabelle Shaffer, Senior, Food Science & Human Nutrition, ACES

Talbot Effect for Dispersive Partial Differential Equations
Zhuozhen Cai, Sophomore, Mathematics, LAS
Wei-Chen Huang, Junior, Mathematics & Computer Science, LAS
Hui Lyu, Senior, Mathematics, LAS
Spencer Rooke, Junior, Mathematics and Physics, LAS

The Effect of Polymer Backbone on Aqueous Mechanochemistry
Claire Lundberg, Junior, Chemistry, LAS

The Effects of Longer Term Exposure to Phthalates on Uterine Morphology and Function in Mice
Katy East, Junior, Molecular & Cellular Biology, LAS

The Molecular Mechanism of Vacuolating cytotoxin A (VacA) Gene Polymorphism Affecting Pathogenicity of Helicobacter pylori
Seokjoo Choi, Senior, Molecular & Cellular Biology, LAS

Two-Color Imaging of Endogenous Loci by Knock-in of Irregular Repeat Arrays
Christina Su, Junior, Molecular & Cellular Biology, LAS

Visual Working Memory Representations are Shifted toward Features of Distractors in Visual Search Tasks
Zachary Lively, Junior, Psychology, LAS
An Investigation of SNUL-1 lncRNAs Epigenetic Regulation of Ribosomal Biogenesis
Santosh Sudhakar, Junior, Molecular & Cellular Biology, LAS

PH SESSION — HEALTH AND WELLNESS
1:30 PM — 2:45 PM, Illini Room C

A Critical Review of D.A.R.E.’s Keepin’ it Real Curriculum to Prevent and Reduce Youth Substance Use
Chantelle Jasper, Senior, Social Work, SSW

27-Hydroxycholesterol Implicated in Breast Cancer Reemergence from Dormancy
Joy Chen, Sophomore, Bioengineering, ENG

A Spatial Analysis of Veterans Access to Veterans Administration Inpatient Care Facilities
John Hamman, Junior, Community Health, AHS

Analyzing Changes in Muscle Activation Patterns during Anxiety Inducing Situations Using EMG and Motion Capture
Josephine Tsang, Senior, Molecular & Cellular Biology, LAS

Crosstalk between Estrogen Signaling and Breast Cancer Metabolism
Alexandra Arca, Junior, Community Health, AHS

Oncopig Urothelial Carcinoma Cell Lines Produce Masses After Subcutaneous Injection into SCID Mice
Alyssa Ruston-Bray, Sophomore, Animal Sciences, ACES

Differential Effect of Natural versus Artificial Vitamin E on Brain Gene Expression of Developing Mice
Pragya Thaman, Senior, Psychology, LAS

Engineered Skeletal Muscle Tissue Contractility
Eric Chen, Sophomore, Integrative Biology, LAS

Gene Expression Changes during RNA-Induced Socialization of Colon Cells
Francis Ogaham, Junior, Molecular & Cellular Biology, LAS

Genomic Survey of Sulfidogenic Bacteria in the Human Microbiome
Luke Lucio, Junior, French, LAS

Hearing Handicap and Cognitive Challenges in Age-Associated Hearing Loss
Grace Rochford, Sophomore, Speech & Hearing Science, AHS

Hepatic Autophagy Gene Expression Is Induced by Post-Weaning High-Fat Diet in Rats Fed with A Low-Protein Diet during Lactation
Avery Zhang, Junior, Food Science & Human Nutrition, ACES

Hydrogen Sulfide Production by the Human Gut Microbe Odoribacter splanchnicus
Paige Polak, Senior, Molecular & Cellular Biology, LAS

IoT Air Quality Monitoring for Health
Elizabeth Ramos, Sophomore, Industrial Engineering, ENG
Soumithri Karra, Freshman, Industrial Engineering, ENG

Literature Review of Tinnitus and Current Treatments
Jenna Vangalis, Junior, Kinesiology, AHS

Adolescent & Female: Neurobehavioral Vulnerability to Problem METH Use in Sprague-Dawley Rats
Julia Wisowaty, Junior, Psychology, LAS

Optimizing New Member Orientation through an Online Program
Jessica Yue, Sophomore, Psychology, LAS
Britten Gordon, Sophomore, Molecular & Cellular Biology, LAS

Personality Matters: The Impact of Personality on Affective Changes Associated with Exercise
Jordan Barry, Senior, Molecular & Cellular Biology, LAS

Racial Differences in Lifestyle and Biological Factors Associated with Health-Related Quality of Life in Midlife Women
Esmeralda Cardoso-Mendoza, Senior, Molecular & Cellular Biology, LAS

Resolving Racial Health Disparities by Using Advanced Statistics on Complex Multidimensional Datasets
Dipro Ray, Sophomore, Computer Science, ENG

Synergy Studies of Traditional Chinese Medicinal Plants
Chenyu Zhao, Freshman, Computer Science & Linguistics, LAS
Chuhan Yu, Sophomore, Psychology, LAS

The Creation of the Public Database for Dysphonic Speech from YouTube Videos
Elizabeth Foster, Senior, Speech & Hearing Science, AHS
Veronica Lane, Junior, Speech & Hearing Science, AHS
Megan Carrigan, Senior, Speech & Hearing Science, AHS
Malinda Mullet, Junior, Speech & Hearing Science, AHS

The Effect of Musical Training on Ecological Cocktail Party Listening
Anneliese Schulz, Senior, Speech & Hearing Science, AHS

The Effects of Different Walking Exercise Duration on Plantar Kin Blood Flow Response in a Healthy Male Subject: A Case Report
Jamiu Odunsi, Senior, Kinesiology, AHS
The Role of CYP27A1 in Ovarian Cancer Pathophysiology  
Varsha Vembar, Junior, Molecular & Cellular Biology, LAS

TweetChecker: A Tool to Evaluate Controversial Health Events in Real-Time  
Trevor Moyer, Freshman, Statistics & Computer Science, LAS

Reading between the Subunits: A Reimagined Story of Campylobacter jejuni Cytotolethal Distending Toxin Assembly  
Claire Ang, Junior, Molecular & Cellular Biology, LAS

Utility of Standard Clinical Acoustic Measures for Describing Vowel Confusion in Dysphonic Speech  
Alexandra Nowak, Senior, Speech & Hearing Science, AHS

What Resources do African Americans who have been Impacted by Gun Violence Identify as Healing  
Geraldine Dagher, Junior, Human Development & Family Studies, ACES

PI SESSION — EDUCATION, SOCIAL SCIENCES, AND HUMAN BEHAVIOR

1:30 PM — 2:45 PM, South Lounge

An Exploratory Study on the Social Cognitions of High School Freshmen Students Social Skills, Peer Popularity and School Self-Efficacy  
Benjamin Lorber, Junior, Social Work, SSW

An Investigation of Vermilion County and Environmental Law  
Steven Sabatini, Senior, Agricultural & Consumer Economics, ACES

Blinded by Irrelevance  
Victoria Halewicz, Senior, Psychology, LAS

The Impact of Study Abroad on Pre-Service Educators  
Emma Damhorst, Freshman, Elementary Education, EDU

Does Time Perception of Emotional Events Vary across Asian and Westerner participants?  
Runhan Yang, Junior, Psychology, LAS

Education in Hong Kong: A Golden Ratio of the East and West cultures?  
Wendi Ding, Junior, Early Childhood Education, EDU

Evaluating Community Systems Development Efforts to Improve Early Childhood Outcomes in Illinois  
Topaz Lavi, Sophomore, Social Work, SSW

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Brendan McGovern, Sophomore, English, LAS

Gender Relations in Agrarian Communities  
Sadia Ahmed, Freshman, Computer Science, ENG

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Ziming Dou, Senior, Food Science & Human Nutrition, ACES

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Citlalli Roman, Sophomore, Anthropology, LAS

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Ari Haase, Sophomore, Elementary Education, EDU

Multiculturalism in China: Policies Supporting Ethnic Minorities  
YanZhen Chen, Junior, Mathematics and Application, University of Macau

Multiculturalism Influence on Mathematics Education  
Zihan Yang, Junior, Mathematics and Application, University Of Macau

Decision Making for a Regenerative Society  
Maxwell Chan, Freshman, Industrial Design, FAA

Data Analysis and Modeling of Societal Distances  
Jinyuan Li, Junior, Computer Science, ENG

Program to Promote Success for International Students  
Jenny (Tsai Chen) Lee, Senior, Molecular & Cellular Biology, LAS

Prostitutes or People?: Deciphering Sexual Deviance and the Legal Personhood of Sex Workers  
Mari Latham, Senior, Political Science, LAS

Re:Search, The Undergraduate Journal of Literary Criticism at Illinois  
Jessica Berbey, Senior, English, LAS

Teacher Talk Moves: Investigating how Teachers Implement Talk Moves in the Classroom to Deepen Student Reasoning  
Andrei Popa, Junior, Middle Grades Education, EDU

Survey Experiment on Political Party Spending and Electoral Rules  
Alan Yu, Senior, Statistics, LAS
The Immediate and Long-Term Impact of Emotion-Cognition Interactions

Chen Shen, Senior, Psychology, LAS

**PJ SESSION – SCIENCE AND MATHEMATICS**

3:15 PM – 4:30 PM, Illini Room A

3D Geometric Morphometrics in the Late Ordovician Cincinnati Arch

Monika OBrien, Senior, Geology, LAS
Marjean Cone, Sophomore, Geology, LAS

A Comparison of Methods of Detecting Ovulation

Kristina Allen, Senior, Anthropology, LAS

A Psychophysical Investigation of Speed Perception in a Virtual Roadway

Xue Yan Chen, Senior, Psychology, LAS

Alexa, Turn on my Dishwasher when its Cheapest to Run It

Aahan Agrawal, Senior, Mathematics & Computer Science, LAS
Nirmal Prakash, Sophomore, Industrial Engineering, ENG

Biological Investigations of Surface Layer Mutants in *Sulfolobus islandicus*

Rebecca Wipfler, Senior, Molecular & Cellular Biology, LAS

Cancer Neoantigens as Targets for T Cell Responses

Abigail Brown, Senior, Molecular & Cellular Biology, LAS

Characterizing the Role of hnRNP I in Regulating Sertoli Cell-dependent Spermatogenesis

Danielle Yee, Junior, Molecular & Cellular Biology, LAS

Comparing the Branch and Bound and Line Ranking Methods for Optimal Transmission Switching in Power Systems

Rachel Tham, Junior, Materials Science & Engineering, ENG

Cross-Race Effect and Direct Forgetting: An Investigation of Intentional Forgetting When Viewing Cross-Race Faces

Huiyu Ding, Senior, Psychology, LAS

Deployment of Variant Calling Workflows on the Cloud Platform

Tajesvi Bhat, Junior, Molecular & Cellular Biology, LAS

Dynamic Chromosomal Association TAR DNA-binding protein 43 (TDP43)

Chin Patel, Senior, Molecular & Cellular Biology, LAS

Effects of Upper-Respiratory Infection on Remyelination in an Animal Model of Multiple Sclerosis

Valerie Sitarz, Senior, Molecular & Cellular Biology, LAS

Enabling Xylose Consumption in *Yarrowia lipolytica*

Leah Ziolkowski, Junior, Food Science & Human Nutrition, ACES

Enhancing Spatial Control of Optogenetic Stimulation and Imaging with an Optical Fiber Bundle System

Alyssa Licudine, Sophomore, Electrical Engineering, ENG

Evaluating Models of Social Group Competition

Emma Erickson, Sophomore, Electrical Engineering, ENG
Riley Coad, Sophomore, Engineering Physics, ENG
Kevin Chen, Sophomore, Civil Engineering, ENG

Examining Effects of Epilepsy on Immunoreactivity for the Astrocyte Marker GFAP in the Mouse Hypothalamus

Shivang Chaudhary, Senior, Molecular & Cellular Biology, LAS

Functional Localization of Nuclear Speckle Association Across TSA-Seq Peaks

Disha Kuchangi, Junior, Molecular & Cellular Biology, LAS

Further Characterization of HiPIMS and Serpentine Linear Magnetron

Nathan Bartlett, Junior, Engineering Physics, ENG
Alp Aktuna, Junior, Nuclear, Plasma & Radiological Engineering, ENG
Lyle Regenwetter, Junior, Mechanical Engineering, ENG

Genetic Analysis of the I6Gso in vitro Neuronal Phenotype

Hanna Pawlowski, Junior, Molecular & Cellular Biology, LAS

Hierarchical Clustering of Six Regions in Large Magellanic Cloud

Yi Zhuang, Junior, Astronomy, LAS

Identification of Common Regenerative Principles in different *Drosophila* Imaginal Discs

Nicholas Griffith, Junior, Molecular & Cellular Biology, LAS

Isolation and Characterization of Novel Sulfolobus Viruses

Joseph DeMuro, Senior, Molecular & Cellular Biology, LAS

Lake Ice Detection Using Remote Sensing Techniques

Alex Schwarz, Senior, Geology, LAS

Liver Cancer Growth and Migration in Collagen – Poly (ethylene glycol) Hydrogels

John Ito, Junior, Chemical Engineering, LAS

Minotaur Automation: A Step towards Utilizing Software Testing in Hardware Resiliency

Aditi Ghosalkar, Sophomore, Computer Engineering, ENG

Modeling the Prevalence of E-Cigarette Use

Elizabeth Wei, Sophomore, Engineering Physics, ENG
Gabrielle Digan, Sophomore, Undeclared, DGS
Ruiyi Wang, Junior, Statistics, LAS
Natural Selection and the Bystander Effect  
Andrew Ingram, Sophomore, Statistics, LAS  
Jonathan Morales, Junior, Civil Engineering, ENG  
Nupoor Gandhi, Junior, Computer Science, ENG  

Origin Recognition Complex Associated Protein (ORCA) Involvement in Chromatin Organization  
Oways Shaqildi, Junior, Molecular & Cellular Biology, LAS  

Phase Diagrams of the Maple Leaf Spin Lattice  
Samuel Dotson, Senior, Engineering Physics, ENG  

Utilizing checkerboard assays to evaluate potential synergistic combinations of antimicrobials targeting L. monocytogenes  
Francesca Agnes, Freshman, Biology, LAS  

Polar Fractions Separation of Thermally Abused Frying Oil and its Effect on Murine Mammary Carcinoma Cells Migration in vitro  
Abhishek Pandavada, Sophomore, Molecular & Cellular Biology, LAS  

Size Dependent Limit of Detection for Pipet-supported ITIES Electrodes  
Stephanie Tapia, Senior, Chemistry, LAS  

Solvent Effects on Alkene Epoxidations in Titanium and Niobium Zeolites  
Jun Zhi Tan, Junior, Chemical Engineering, LAS  

Investigating the Impact of Endolysins against Antimicrobial Resistance  
Lauren Chermak, Freshman, Food Science & Human Nutrition, ACES  

Regulated Expression of Marek’s Disease Virus UL13 Protein Kinase in DF1 Cells  
Zelidy Garcia, Junior, Molecular & Cellular Biology, LAS  

Exercise Has No Impact on Mitochondrial DNA Copy Number and Mutations in the PolG Mutant Mouse Model of Accelerated Aging  
Kendra Zwonitzer, Senior, Molecular & Cellular Biology, LAS  

The Use of Analytical Instruments to Measure the Chemistry inside Single Cells  
Zoe Tian, Sophomore, Chemical Engineering, LAS  

Evaluating Geometric Dependence of Lattice Effective Properties through Wave Propagation  
Aditya Shedge, Junior, Mechanical Engineering, ENG  

PK SESSION — FOOD, PLANTS AND ANIMALS  
3:15 PM — 4:30 PM, Illini Room C  

A New Earwig (Dermaptera) from Early Miocene Dominican Amber  
Bohao Mai, Senior, Geology, LAS  

A Systematic Review of Terminology Uses in the Aquatic Non-native Species Literatures  
Seoyeon Jang, Junior, Natural Resources & Environmental Sciences, ACES  

Air Exposure Duration and Temperature Interact to impact Swimming Performance of Winter Captured Fish  
John Bieber, Senior, Natural Resources & Environmental Sciences, ACES  

Alternative Splicing of Arabidopsis thaliana Transcription Factors in Response to Abiotic Stresses  
You Jin Song, Senior, Molecular & Cellular Biology, LAS  

An Investigation into Star Phenotype and EDNRB Gene in Silver Foxes  
James Fradin, Senior, Molecular & Cellular Biology, LAS  

Comparison of Changes in Mechanical Loading on Foals during Growth  
Kellie Halloran, Junior, Mechanical Engineering, ENG  

Do Stream Flow Extremes Predict Abundance of the Invasive Clam Corbicula fluminea?  
George Balto, Senior, Natural Resources & Environmental Sciences, ACES  

Effect of Crop Rotations on Water Quality Runoff in the Great Plains  
Carley Meeks, Senior, Crop Sciences, ACES  

Study on Meiotic Progression of Male Mice in Vitro  
Qingyi Lan, Junior, Molecular & Cellular Biology, LAS  

Elucidating the Binding Mechanism of Brassinolide Receptor  
Faisal Aldukhi, Senior, Chemical Engineering, LAS  

Estimating Soil N from Cover Crop Biomass: Faster, More Efficient  
Kelly Aves, Senior, Crop Sciences, ACES  

Evaluating the Change in Motility of Xanthomonas in Chemoattractant and Suppressive Environments  
Amie Bott, Senior, Molecular & Cellular Biology, LAS  

Evaluation and Screening of Transgenic Soybeans for Genotype and Protein Content  
Aya Bridgeland, Senior, Crop Sciences, ACES  

Evaluation of Plant Performance, Bacterial, and Fungal Biomass, Fermentation, and Yield on a BMR Corn Hybrid to be Harvested as Whole Plant Corn Silage  
Sarah Kemp, Senior, Animal Sciences, ACES  

Exploring the Responses of Nematodes to Attractive Stimuli Based on Their Appetitive States  
Shannon Berneche, Junior, Molecular & Cellular Biology, LAS
Feminization of Behavior, Plasma Sex Hormone Profile, Gonadal Histology and Brain Gene Expression from Endocrine Disruption in Sexually Labile Anemonefish

Jose Gonzalez, Junior, Molecular & Cellular Biology, LAS
Achint Kaur, Senior, Molecular & Cellular Biology, LAS
Dominica Lange, Senior, Psychology, LAS
Supriya Bhuvanagiri, Senior, Molecular & Cellular Biology, LAS

Impact of Seafloor Diagenetic Alteration on Sea Surface Temperature Reconstructions from Coral Skeletons

Lauren Todorov, Senior, Molecular & Cellular Biology, LAS

LED farming: Effect of Position of LED Lighting on Plant Growth

YoungJoo Yoon, Senior, Electrical Engineering, ENG
Woo Young Park, Senior, Mechanical Engineering, ENG
MyungGin Lee, Senior, Statistics, LAS
Subin Cho, Senior, Statistics, LAS

Microgreen Disinfection Project

Yirong Wang, Junior, Food Science & Human Nutrition, ACES

Comparing the Escape Behavior and Stress Levels of White-tailed Deer

Keegan Payne, Junior, Natural Resources & Environmental Sciences, ACES

Prairie Pothole Restoration: Building a Wetland Restoration Suitability Index for Iowa

AnnaMae Dziallo, Senior, Natural Resources & Environmental Sciences, ACES

Production of Amyloid Nanofibrils from Pea Protein for Food Fortification Applications

Jonathan Poole, Freshman, Food Science & Human Nutrition, ACES

Ranavirus in Illinois Wetlands

Madalynn Dunphy, Freshman, Molecular & Cellular Biology and Spanish, LAS
Tyler Vappi, Junior, Technical Systems Management, ACES

Novel Preparation Methods and Microscopy Tools for Creating High-Throughput High-Quality Plant Cuticle Images

Rose Aubery, Senior, Integrative Biology, LAS

Social Spacing and Subgrouping in One Community of White-Faced Capuchins (Cebus capucinus)

Daniel Leonard, Junior, Anthropology, LAS

Studying the Glossy 15 Gene in Sorghum

Camilla Macias, Junior, Crop Sciences, ACES

Systematics and Biology of the Cardiochiles (Hymenoptera: Braconidae) of the Guanacaste Conservation Area, Northwest Costa Rica

Tyler Blackwell, Junior, Integrative Biology, LAS

Taxonomic Description of Tipulidae from Passamari Member of the Renova Formation

Miguel Castillo, Senior, Geology, LAS

Testing Koch’s Postulates of a Fire-Associated Fungal Endophyte Occurring in a Moss

Daniel Wells, Senior, Molecular & Cellular Biology, LAS

The Effects of Activated Charcoal Supplementation on Digestibility of Horse Feed

Nur as-Siddiqui, Junior, Animal Sciences, ACES

The Effects of Climate Change on Food Production

Jonathan Kolweier, Freshman, Civil Engineering, ENG
Tanvi Bhole, Sophomore, Civil Engineering, ENG

The Effects of Heat Stress on Milk Yield and Milk Composition in Holstein Cows

Alissa Kruis, Senior, Animal Sciences, ACES

The Effects of Heat Stress on Temperature Parameters and Behavioral Activity in Holstein Cows

Kathryn Wright, Junior, Animal Sciences, ACES

Comparative Synteny Analysis and Genome Evolution in Antarctic Notothenioid Fishes

Shehani Gunawardena, Sophomore, Integrative Biology, LAS

The Importance of Trigger Hairs in Optimizing Energy Transfer in the Mandible Strikes of Trap-jaw Ants (Hymenoptera: Formicidae)

Daniel Garza, Senior, Integrative Biology, LAS

The Length of Paternal Predation Exposure on Offspring Phenotypes in Threespined Stickleback Fish

Christian Zielinski, Senior, Integrative Biology, LAS

The Role of Marek’s Disease Virus RLORF4 Protein in Tissue Culture Cell Toxicity

Katherine Fleck, Senior, Biochemistry, LAS

Transcription Factors that Affect Vascular Differentiation in Sorghum bicolor

Caroline Friedmann, Senior, Integrative Biology, LAS

Variation In Nest Architecture Between Dorymyrmex bureni and Dorymyrmex elegans

Ya Li, Senior, Integrative Biology, LAS
Fahren Zackery, Sophomore, Integrative Biology, LAS
Anil Chakravorty, Sophomore, Integrative Biology, LAS
Megan Choi, Sophomore, Integrative Biology, LAS
PL SESSION — EDUCATION, SOCIAL SCIENCES, AND HUMAN BEHAVIOR

3:15 PM — 4:30 PM, South Lounge

It Wasn’t Emphasized, it was Just You’re Mexican, That’s it: Identifying the Driving Forces Behind the Initial Lack of Cultural Awareness in First-year Mexican American College Students

**Miguel Quiñones**, Junior, Human Development & Family Studies, ACE

My Friends Helped Redefine My [Mexican culture]: Peers’ Pivotal Role in First-year College Students’ Cultural Involvement

**Solange Leon Vazconez**, Sophomore, Human Development & Family Studies, ACES

Exploring Volunteers’ Motivations in Non-Profit Sport for Development Organizations in South Korea

**Juan Lee**, Sophomore, Agriculture & Consumer Economics, ACES

Evaluating the Quality of Behavioral Intervention Plans

**Margo Morady**, Freshman, Elementary Education, EDU

Developing Exciting Outreach Material

**Yasir Badillo Acosta**, Sophomore, Mathematics, LAS

**Kelly Jezior**, Junior, Mathematics, LAS

**Iris Tong**, Junior, Mathematics, LAS

**Kagen Quiballo**, Junior, Mathematics, LAS

Effects of Speech Therapy and Language Acquisition in Infants with Down syndrome

**Caitlin Miller**, Senior, Speech & Hearing Science, AHS

Emerging African and African American Family Identity

**Maya Brown**, Freshman, Undeclared, DGS

**Ambrea Young**, Senior, Human Development & Family Studies, ACES

Emotional Contagion and Empathy among Infants

**Jasmin Roman**, Senior, Human Development & Family Studies, ACES

Examining Ideological Responses to Caregiving and Traditional Disgust Factors

**Matthew Carlins**, Senior, Political Science, LAS

**Casey Griffin**, Junior, Political Science, LAS

For the Troubles of Women: Medicine, Health, and Menstruation in Anglo-Saxon England

**Emma Lloyd**, Senior, History, LAS

Gender and Generations: Motherhood

**Pasqua Ruggiero**, Junior, Statistics, LAS

**Kevin Zhang**, Freshman, Statistics & Computer Science, LAS

Implementation of Paid Parental Leave Policy in Illinois

**Jamie Annes**, Senior, Human Development & Family Studies, ACES

**Maria Chemello**, Junior, Human Development & Family Studies, ACES

Investigating the Cognitive Consequences of Internet Search on Memory

**Lamia Chatriwala**, Junior, Advertising, COM

Peer Adversity as a Predictor of Interpersonal Needs in Adolescence

**Cali Joyce**, Senior, Psychology, LAS

The Impact of Corruption on Economics in Yemen

**Xinran Cui**, Sophomore, Economics, LAS

**Folashade Olumola**, Freshman, Undeclared, DGS

Social Stereotyping in Infants

**Olivia Spence**, Senior, Psychology, LAS

Presenting the Homeless Experience in Virtual Reality

**Ying Xie**, Junior, Advertising, COM

**Benjamin Hirsch**, Senior, Advertising, COM

**Isabella Gutierrez**, Junior, Advertising, COM

Targeting, Retargeting, and Blurry lines - An Analysis of Perceptions of Online Behavioral Advertising

**Hanwen Hu**, Junior, Advertising, COM

**Heather Shin**, Senior, Advertising, COM

The Impact of Study Abroad on Pre-Service Educators

**Emma Damhorst**, Freshman, Elementary Education, EDU

The Transition to Middle School: Youth Worries and Mothers’ and Fathers’ Parenting Behaviors

**Kelsie Olsen**, Junior, Human Development & Family Studies, ACES

**Brett Cohen**, Senior, Psychology, LAS

Comparing Cost-Effective Binaural Audio Hardware and Software Accuracy

**Federico Hernandez Nater**, Junior, Music Technology, FAA
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Zolecki, Daniel - Poster Session: PE
Zou, Peiyun - Poster Session: PD
Zhou, Songling - Poster Session: PD
Zhou, Ying - Poster Session: PA
Zhou, Ziran - Oral Presentations and Performances: Technology and Innovation
Zhu, Qiaoge - Poster Session: PD
Zhuang, Yi - Poster Session: PJ
Zielinski, Christian - Poster Session: PK
Ziolkowski, Leah - Poster Session: PJ
Zohair, Huzaifa - Poster Session: PE
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