2018 EVENTS

ILLINOIS
Undergraduate Research Week
APRIL 15-21
Welcome to Undergraduate Research Week (URW), a celebration of student innovation and excellence in research across campus. The signature event is the eleventh annual campus-wide Undergraduate Research Symposium (URS), held on Thursday, April 19. The breadth and scope of the oral and poster presentations, as well the performances, reflect not only the wide range of academic disciplines at the University of Illinois, but also speak to the caliber of our undergraduate students. Their projects also demonstrate the ongoing commitment of our faculty to 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 the arts and social change, to the effect of environmental toxins on developing embryos.

This year’s URS (and URW more largely) again sets a record in number of participants from an expansive range of departments, colleges, and other units on campus. 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.

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 and David Aristizábal, our graduate research assistants; and Corissa Kurth, Ryan Evans, and Genesis Romo, our undergraduate interns. Thanks also to our Advisory Board for their ongoing support, as well as our Illinois Undergraduate Research Ambassadors, who are new to the Office of Undergraduate Research but are already making their mark in supporting both their undergraduate colleagues across campus and Office programming and events.

We invite you to come be inspired!

Dr. Karen Rodriguez’G
Interim Director, Office of Undergraduate Research
ILLINOIS
Undergraduate Research Week

Sponsors

Office of the Provost, University of Illinois
Stevick Foundation

Special thanks to the Illini Union Event Staff, and to Espresso Royale, Auntie Anne’s, and Qdoba for their generous gift card contributions.

UNDERGRADUATE RESEARCH WEEK EVENTS

Department of Political Science Student Research Symposium and Awards Ceremony

Saturday, April 14, 11:30 AM – 1:15 PM
ACES Library, Heritage Room

Political Science Honors students will present their thesis research in a poster format. Departmental scholarships and awards will also be given out at this event.

NCSA Students Pushing Innovation (SPIN) Open House

Monday, April 16, 3:00 PM – 5:00 PM
NCSA Atrium, 1205 W. Clark Street, Urbana

The National Center for Supercomputing Applications (NCSA) offers highly creative students the opportunity to do hands-on research projects with guidance from NCSA staff and faculty affiliates. NCSA will offer a limited number of paid SPIN internships during the 2018/19 academic year. SPIN projects are open to undergraduate students in any major and year of study; international students can apply.

Want to learn more? Come to our SPIN Open House! You’ll get to meet our NCSA staff and faculty affiliates and learn more about the different projects of which you could be a part. Refreshments will be provided.

Ethnography of the University Initiative (EUI) Biannual Student Conference, and The Odyssey Project Poster Symposium

Monday, April 16, 4:00 PM – 8:00 PM
Levis Faculty Center, 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 through a partnership between the Office of Undergraduate Research and the Department of Anthropology.

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.
College of Fine and Applied Arts (FAA) Symposium

On Display, April 17-20  
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.

On Display, April 17-23  
Art + Design Building

The School of Art + Design will feature outstanding creative research by nine students, who were selected to represent each of our degree granting programs: Art Education, Art History, Crafts-Metals, Graphic Design, Industrial Design, New Media, Painting, Photography and Sculpture. Work will be on display in the A+D Block Gallery, located in room 114 Art + Design Building, open S-F, 9-5pm.

In Performance  
Tuesday, April 17, and Thursday, April 19, 1:00 PM — 3:30 PM  
Music Building, South Lobby

The School of Music will feature performance and research projects by undergraduate music students.

Performance as Research: Departments of Theater & Dance, and the School of Music  
Friday, April 20, 1:00 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 Arts with music, dance, and theater. Experience the arts live and up close!

On Display, April 26, 5:00 PM — 7:00 PM  
Temple Buell Hall, Architecture Gallery, Blicharski Atrium, Lower Level

The first graduating class in the Bachelor of Arts in Urban Studies and Planning will present their research and internship work in a poster session. Projects include internship experiences, volunteer work, client-based consulting projects, summer research, and more.

Department of English Symposium

Wednesday, April 18, 4:00 PM — 6:00 PM  
English Building, Atrium

Five Years of Re:Search, the Undergraduate Literary Criticism Journal at the University of Illinois  

Zoe Stein, Junior, English, LAS, co-editor-in-chief  
Hannah Downing, Senior, English, LAS, co-editor-in-chief

An Inquiry into the Ethical Implications of the Portrayal of Mental Illnesses in Video Games  

Brittany Lundberg, Junior, English, LAS

Birth Stories, Midwifery and Politics in the United States during the 20th Century  

Meghan McCoy, Senior, English, LAS

ISUR Research Poster Expo

Wednesday, April 18, 4:00 PM — 6:00 PM  
Illini Union, Illini Rooms B and C

The ISUR Research Poster Expo is an annual event for the participants of the Illinois Scholars Undergraduate Research (ISUR) program to present their projects which are focused on various research areas such as semiconductors, electronics, information technology, energy and the environment, chemical solutions, agricultural biotechnology, and health.

Pincer-Iridium Catalyst Encapsulation through Hydrosilylation  
Muneeb Ansari, Junior, Chemistry, LAS

Fabricating a Hydrogel Platform for Enthesis Regeneration  
Amber Boyce, Senior, Chemical & Biomolecular Engineering, LAS

Mitigation of Electron Migration of Copper Interconnects via Graphene Layering  
Patrick Burke, Junior, Mechanical Engineering, ENG

Biomolecule Delivery via Polymeric Micelle Delivery System  
Hannah Chait, Senior, Chemical & Biomolecular Engineering, LAS

Effect of Invasive Glioma Stem Cells Using Hyaluronic Acid and Oxygen on 3D Platforms  
Denzel Ryan Cruz, Sophomore, Bioengineering, ENG

Increased Electronic Conductivity of Li-ion Battery Cathode through Conversion Cathode-Metal Eutectic  
Emily Foley, Senior, Materials Science & Engineering, ENG

Public Health Prediction with Social Media  
Nupoor Gandhi, Sophomore, Computer Science, ENG

A New Method to Measure Rate of Evaporation of Droplets for Different Temperatures  
Marisa Gnadt, Senior, Mechanical Engineering, ENG

The Incredulity of Contemporary Cardiologists: Integrated Imaging as a Marker for Diagnosing PAD in Preclinical Models  
Than Huynh, Junior, Bioengineering, ENG

Controlling Crystal Formation in Organic Semiconductors  
Nicole Jugovich, Sophomore, Chemical & Biomolecular Engineering, LAS

Understanding Human Sorting  
Andrew Kuznetsov, Senior, Computer Science, ENG

Biomaterial Models of the Tumor Margins in Glioblastoma  
Patricia Li, Senior, Chemical & Biomolecular Engineering, LAS
A Microfabricated Electrical Immunosensor for Sepsis Detection
Cynthia Liu, Junior, Bioengineering, ENG

Flash Annealing Vitrelux 106a with an Adjustable Cooling Rate
Jacob Maher, Junior, Materials Science & Engineering, ENG

Design of an Autonomous Large Drone Swarm
Raimon Roglans, Sophomore, Aerospace Engineering, ENG

Chiral Measurements of D-Asp in the Pancreas
Jack Schnieders, Sophomore, Chemical & Biomolecular Engineering, LAS

Fast, Low-Temperature Spray Deposition of Perovskite Solar Cells
John Simonaitis, Senior, Electrical Engineering, ENG

Mineralized Collagen-Amnion Scaffolds for Repair of Craniofacial Bone Defects
Simona Slater, Senior, Chemical & Biomolecular Engineering, LAS

Accelerated Molecular Dynamics Study of Dislocation Climb in Nickel
Lauren Smith, Senior, Materials Science & Engineering, ENG

EPen: A Handheld Device for Measuring the Stiffness of Soft Tissue
Robert Stavins, Sophomore, Mechanical Engineering, ENG

Solar Thermal Energy Storage Cycle Testing
Rachel Tham, Sophomore, Agricultural & Biological Engineering, ACES

Novel Graph Theoretical Approaches for Electronic Structure Calculations
Michael Toriyama, Junior, Materials Science & Engineering, ENG

Negative Thermal Expansion in Anisotropic Oxides
Whitney Tso, Junior, Materials Science & Engineering, ENG

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

Adaptation of a Smartphone Spectrometer System to Analyze Light-Scattering Properties
Elizabeth Woodburn, Senior, Bioengineering, ENG

Friday, April 20, 2:00 PM — 5:00 PM
Levis Faculty Center, IPRH Lecture Hall, Room 422

Time is traditionally viewed as regulated, unending, and constant, yet one can relate to the feeling of time flying by in moments of joy or moving along at a snail’s pace in moments of boredom. This symposium will explore the paradox between these two relationships to time, which intersect and diverge from each other throughout daily life. By integrating models of time and temporality from various biological and cultural disciplines, this project aims to form a more comprehensive understanding of the subjective experience of time.

The main presentation will then be followed by a thirty-minute art exhibition featuring thought-provoking pieces that illustrate the malleable nature of human temporality. The event will close with a collection of short research presentations from student participants, followed by a panel discussion concerning further potential interdisciplinary connections between research fields and their respective discussions of time.

This event is hosted by the Illinois Program for Research in the Humanities and supported by the Andrew W. Mellon Foundation.

Main Presenters and Organizers

Unwinding Time and Temporality
Hyun Park, Senior, English and Psychology, LAS
Huy Chew, Senior, English and Psychology, LAS
Victoria Halewicz, Junior, Psychology, LAS

Presenting Artists

The Universe
"Mandi" Congying Shi, Senior, Studio Art, FAA
"Mew" Lingjun Jiang, Senior, Studio Art and Art History, FAA

Portal
Greer Durham, Sophomore, Painting, FAA

The main presenters and organizers are all IPRH-Mellon Bio-Humanities Undergraduate Interns for 2017-2018.

Main presenters will also be joined by other student presenters.

Living-Learning Communities Researchers Initiative Poster Symposium

Sunday, April 22, 4:00 PM — 6:00 PM
Pennsylvania Avenue Residence Halls, Multipurpose Room

Comparing Logit-regressions to ANOVAs in Analyzing Binary Psycholinguistic Data
Christina Chen, Sophomore, Systems Engineering & Design, ENG
Rohan Dalmia, Junior, Statistics, LAS

Female Reproductive Hormonal Variation
Kaitlin Kanthac, Freshman, Mathematics, LAS

Female Reproductive Hormonal Variation (Project 1) and Experiences of Women in Science (Project 2)
Bryana Rivera, Freshman, Biology, LAS

IPRH-Mellon Bio-Humanities Undergraduate Research Symposium: Unwinding Time and Temporality
How does Prescribed Fire Affect the Root Distribution of a Non-native Invasive Grass?
Cary Brandolini, Freshman, Biology, LAS

How Does Prescribed Fire Affect Root Biomass in Shawnee National Forest?
Jiayi Huang, Freshman, Biology, LAS
Benjamin Ray, Freshman, Biology, LAS

"He'll go out of his way to help": Latino Family Members' Role in Children's School Readiness
Amaris Hill, Freshman, Agriculture & Consumer Economics, ACES
Carlos Oliva, Freshman, Actuarial Science, LAS
Jesty Varghese, Sophomore, Molecular & Cellular Biology, LAS

The Link between Contact with Nature and Mildness of Attention Deficit/Hyperactivity Disorder Symptoms: Testing for Urban/Rural Differences
Ashish Pabba, Freshman, Electrical Engineering, ENG
Krishna Vepachedu, Freshman, Physics, LAS

Using Social Media Data to Characterize Wind Damage
Gwendolyn Kramer, Freshman, Civil Engineering, ENG

Investigating the Role of Heme-Copper Oxidase Structure in Catalytic Cellular Activity via Mutagenesis of Myoglobin-Based Enzyme Models
Shehani Gunawardena, Freshman, Biology, LAS

Evaluating Habitat Quality for Shrubland Birds, Arthropods, and Bee Communities in Human-dominated Landscapes
Maria Repiscak, Sophomore, Integrative Biology, LAS

Caught on Camera: Documenting the Nestling Diet of a Grassland Bird of Conservation Concern
Madelyn Wagner, Freshman, Integrative Biology, LAS

Association between Color-Blind Racial Ideology and Engagement in Diversity Education among Police Recruits
Jada Holland, Freshman, Psychology, LAS
Richard Moraga, Molecular & Cellular Biology, LAS
Juhi Shah, Undeclared, DGS

Construction and Validation of the Race-Related Motivated Reasoning Scale
Elizabeth Zelenka, Freshman, Undeclared, DGS

Does Subchondral Bone Thickness Change in Response to Exercise and Postural Differences?
Anna Alvarez, Freshman, Mechanical Engineering, ENG

Calibration of an IMU-based Wearable Motion Analysis System
Apoorva Josyula, Freshman, Computer Engineering, ENG

Consequences of Body Size on Equine Limb Cross-sectional Properties
Nicole Kauffman, Freshman, Animal Sciences, ACES

Daphnia Population Dynamics with Varying Genotypes, Two Food Sources, and Parasites
Cruz Castillo, Junior, Mathematics, LAS

Statistical Analysis and Mathematical Modeling of Host-Parasite Genotype Interactions
Karan Srivastava, Sophomore, Mathematics, LAS

Validation of a Fall Prevention Program among Non-Ambulatory Wheeled Mobility Device Users with Multiple Sclerosis
Grace Ruxlow, Freshman, Biology, LAS

Vicarious Racism in the World of Social Media
Emily Freiburger, Junior, Global Studies, LAS
William McConnell, Junior, Molecular & Cellular Biology, LAS

Investigating Metabolites within Single Brain Cells with MALDI-MS and Immunofluorescence
Rachel Ballock, Freshman, Undeclared, DGS
Srushti Ghone, Freshman, Chemical & Biomolecular Engineering, LAS

Metabolite and Peptide Profiles of Single Cells within the Pedal Ganglia of Aplysia californica
Tanvi Nagarkar, Freshman, Chemical & Biomolecular Engineering, LAS
Huiying Tian, Freshman, Chemistry, LAS

Experimental Investigation of the Impact of Aquatic Vegetation on Erosion and Deposition in Rivers
Elizabeth Ramos, Freshman, Industrial Engineering, ENG
Justin Shen, Freshman, Civil Engineering, ENG

Hanna Chen, Freshman, Systems & Design Engineering, ENG
Megan Coleman, Junior, Computer Engineering, ENG
Nidhi Dholaria, Freshman, Computer Science, ENG
Jiang Han, Freshman, Mathematics & Computer Science, ENG
Gaurav Tandon, Freshman, Computer Engineering, ENG
Daksh Varshney, Freshman, Computer Engineering, ENG

Screening of E.coli Mutants that are Defective in Growing under Glucose Phosphate Stress Condition
Velimira Asenova, Sophomore, Molecular & Cellular Biology, LAS
Tanveer Sandhi, Sophomore, Molecular & Cellular Biology, LAS

4th Annual ECON Research Symposium
Thursday, April 26, 5:00 PM — 7:00 PM
David Kinley Hall, Room 123
The Department of Economics encourages undergraduate students to conduct research or complete an independent study project with faculty to gain a better understanding of economic concepts and add to their experience for a future career or graduate studies. The Symposium allows students to showcase the projects they have worked on during the academic year.

**College of Media Undergraduate Research Symposium**

**Friday, April 27, 1:30 PM — 3:00 PM**  
Gregory Hall, Room 122 (Communications Library)

**Telepresence in Virtual Reality (VR) Branded Content: Does Device Matter?**  
Aparna Sivasanka, Senior, Advertising, COM  
Julia Szumny, Senior, Advertising, COM

**Nostalgia and Advertising**  
Natalie Ang, Senior, Advertising, COM

**The Ambiguous, the Invisible, and the Erotic: Discovering Sexuality in Buffy the Vampire Slayer**  
Raynah Unes-Reid, Junior, Media & Cinema Studies, COM

**VAA: Research and Consumer Behavior**  
Yutong Wang, Junior, Advertising, COM

**Obamacare in Central Illinois: A Fragile Future**  
Jessica Bursztyns, Senior, Journalism, COM

**Trust as Expressed between Visually Impaired Alpine Skiers**  
Ryan Wilson, Senior, Journalism, COM

**Untitled**  
Vignesh Sivaguru, Junior, Political Science, LAS

**ORAL PRESENTATIONS AND PERFORMANCES**

**Environmental Sustainability**  
9:15 AM — 10:15 AM, Room 209

**Mapping Social Values and Landscape Metrics in US and Australian Protected Areas**  
Dana Johnson, Senior, Natural Resources & Environmental Sciences, ACES

**The Challenges of Integrating Urban Water and Energy Data**  
Allisa Hastie, Sophomore, Civil Engineering, ENG
Reduced Stomatal Density for Higher Water Use Efficiency in Sorghum
Anna Dmitrieva, Sophomore, Integrative Biology Honors, LAS

Mapping Technology
9:15 AM — 10:15 AM, Room 215
Camera-Robust Visual Map Building and Localization
Max Feinberg, Senior, Aerospace Engineering, ENG

Video As a Sensor: From Discovery to Applications
Kyle Begovich, Sophomore, Mathematics & Computer Science, LAS

Food and Human Health
9:15 AM — 10:15 AM, Room 404
Dietary Fatty Acids and Lipid Profiles in a Cohort of Young Adults
Rebecca Jung, Senior, Food Science & Human Nutrition, ACES

Relationship of Body Mass Index, Physical Activity, and Sleep with Eating While Bored: A Post Hoc Analysis of Healthy Young Adults
Emily Schierer, Senior, Integrative Biology, LAS

Food Insecurity Obesity Paradox and Energy Density
Payton Walters, Junior, Molecular & Cellular Biology, LAS

Race, Society & the University
9:15 AM — 10:15 AM, Room 406
Black Student History Recovery Project
Terrell Spurlock, Junior, History, LAS
Dimitri Love, Sophomore, History, LAS
Donti Winslow, Junior, History, LAS

The Impact of a Black and Latino Male Diversity Learning Program at a Midwestern Public Research Institution
Jacob Reed, Senior, African American Studies, LAS

Conflict and Society
10:45 AM — 11:45 AM, Room 215
An Analysis of the Roman Slave System after the Third Servile War (Spartacus)
Brendan Labbe, Sophomore, Classics, LAS

Education and Inequality
10:45 AM — 11:45 AM, Room 404
The Ukrainian Civil War’s Impact on Development and Food Security
John Hall, Junior, Global Studies, LAS

Exploring the Effects of Social Media on Marketing World
Arsheen Kanji, Freshman, Political Science, LAS

Stress and Student Life
9:15 AM — 10:15 AM, Room 314A
Academic Stress and Study Habits
Elizabeth Prete, Senior, Sociology, LAS

Optimizing the Presentation Format of Biofeedback Assisted Relaxation Training
Hannah Kim, Junior, Elementary Education (Grades 1-6), EDU
Chuhan Yu, Freshman, Learning & Education Studies, EDU

Acceptability of Yoga for Managing Anxiety in College Students
Janell Ross, Senior, Community Health, AHS

Brain Functions
10:45 AM — 11:45 AM, Room 209
Event-Related Brain Potentials Reveal Differential Task Dependency of Semantic Processing Across Parafoveal and Foveal Vision
Melissa Coffel, Senior, Psychology, LAS

Co-Registration of Event-Related Brain Potentials and Pupillometry During Language Comprehension
Melissa Coffel, Senior, Psychology, LAS

MIT vs. Situated Register: A Discourse Analysis of Prosody in Clinical Settings
Regan Kelley, Senior, Speech & Hearing Science, AHS
Andrea Jachino, Senior, Speech & Hearing Science, AHS

Social Media and User Experience
9:15 AM — 10:15 AM, Room 407
Media Content Creation for a Social World
Brandon Blunk, Senior, Recreation, Sport & Tourism, AHS

The Effects of Digital Learning Environments in Middle School Science Classrooms
Bridget Berger, Freshman, Elementary Education (Grades 1-6), EDU
Lee Sun Chung, Freshman, Learning & Education Studies, EDU
Pre-School Preparation for Low-Income Families
Demeisha Carlton, Senior, Social Work, SSW

Association Between Maternal Education and Inappropriate Nutrition Practices among WIC Participants
Nancy Perez-Flores, Senior, Social Work, SSW

Seeing Them Through: Black Male Attrition in Higher Education
Steven Waddell, Senior, Learning & Education Studies, EDU

Memory and Learning
10:45 AM — 11:45 AM, Room 406
Relational Memory and Mnemonic Discrimination Are Differentially Associated with Body Composition in Adults
Ashley Kaper-Tucker, Senior, Psychology, LAS

Long Short Term Memory Neural Networks for Sarcasm Detection
Aidan San, Sophomore, Computer Science & Linguistics, LAS

ADHD and Working Memory
Patricia Ebersold, Junior, Community Health, AHS

Mental Health
10:45 AM — 11:45 AM, Room 407
Lifetime Adversity, the Accuracy of Cognitive Appraisals, and Depression in Adolescent Girls
Divya Surabhi, Senior, Psychology, LAS

A Genetically Informative Study of Neuroticism and the Parent-child Relationship
Susana Sosa, Senior, Human Development & Family Studies, ACES

Culture and Mental Health Utilization among African-Americans
Nakia Brown, Senior, Community Health, AHS

Race, Culture, and Resistance
1:45 PM — 2:45 PM, Room 209
A Comparative Analysis of Black Studies Engagement with the Black Power Movement and Black Lives Matter Movement
Karen Olonwu, Senior, African American Studies, LAS

Analysis of Syllable Oddball Test Data on Reading Disabled Children
An Zhao, Senior, Electrical Engineering, ENG

¿Por Qué No Sigue La Lucha? Understanding the Latina/o Educational Pipeline Using Community Cultural Wealth
Moisés Contreras, Senior, Psychology and Italian, LAS

Cancer Research
1:45 PM — 2:45 PM, Room 215
27-Hydroxycholesterol Promotes Breast Cancer Recurrence
Joy Chen, Freshman, Bioengineering, ENG

Perceived Symptom-Related Barriers to Eating and Associated Quality of Life in Head and Neck Cancer Survivors
Katherine Douglas, Sophomore, Molecular & Cellular Biology, LAS

The Effect of Cholesterol and Its Metabolites on the Ovarian Tumor Proliferation and Cell Migration
Anna Vardanyan, Junior, Molecular & Cellular Biology, LAS

Genetics and Human Health
1:45 PM — 2:45 PM, Room 404
Diabetes Disparities in Illinois: A Geographic Diagnosis
Taylor Jansen, Senior, Psychology, LAS

Genetics in the Health of African Americans with Obesity and Ovarian Cancer
Taylor Walker, Senior, Molecular & Cellular Biology, LAS

TDP-43 Deletion in Testicular Sertoli Cells Leads to Male Infertility
Kaitlyn Campbell, Senior, Animal Sciences, ACES

Global and Transnational Connections
1:45 PM — 2:45 PM, Room 406
Chicago & Cape Town: A Geographic Historiography and Contemporary Analysis
Martha Rubin, Senior, Geography & Geographic Information Science, LAS

Globalization: U.S. Food and Beverage Advertisements within Jamaica
Ryan Walton, Senior, Human Development & Family Studies, ACES

Mujeres Hechas De La Noche: The Effects of Sex Tourism and the Hypersexualization of the Afro-Cuban Woman
Lindsey Crudup, Senior, Sociology, LAS

Machine Learning and Artificial Intelligence
1:45 PM — 2:45 PM, Room 407
Connected Cars, Connected Bicycles, and Accident Avoidance
Otto Piramuthu, Freshman, Computer Science, ENG

Predicting Stock Price Movements from Annual Reports Using Learned Document Embeddings
Daniel Zou, Sophomore, Computer Science, ENG
Will I Get Admitted? Statistical Analysis of Graduate School Admission
Pengyu Chen, Senior, Statistics & Computer Science, LAS
Hao Qiu, Junior, Statistics, LAS
Ruorong Yin, Senior, Statistics, LAS

Organisms and their Environment
1:45 PM — 2:45 PM, Room 314A
Arrested Development: How Common Gut Bacteria Can Influence Host Cell Fate Through DNA Damage
Paul Kaminski, Senior, Biochemistry, LAS

The Impact of Injury on Sap Flow in Pin Oaks (Quercus palustris)
Taskeen Khan, Sophomore, Integrative Biology, LAS

Transcriptional Variation and Partner Quality in the Legume Rhizobia Mutualism
Alex Riley, Senior, Integrative Biology, LAS

Literary Canons
3:15 PM — 4:15 PM, Room 405
Bond Girls
Erin Blaber, Senior, Media & Cinema Studies, COM

Shakespeare and Femininity
Margaret Wolfe, Senior, Advertising, COM

Multicultural Environments and Identity
3:15 PM — 4:15 PM, Room 209
An Exploration of Cultural Influence and Cultural Variability in Remote Multicultural Environments
Bridget Regan, Senior, Human Development & Family Studies, ACES

Tutor Talk Matters: Motivational Scaffolding and the Chinese International Second-Language Writer
Sarah Patrick, Sophomore, Creative Writing, LAS

What Are the Impacts of Chinese International Students Involvement in Chinese Student Organizations (CSOs) and Non-CSOs on their Academic and Social Life at UIUC
Tingting Rui, Sophomore, Learning & Education Studies, EDU

Body and Movement
3:15 PM — 4:15 PM, Room 215
Construction of an Artificial Knee Simulator
Sam Goldsmith, Senior, Mechanical Engineering, ENG

Designing for Efficacy: Breaking Down the User Interface of Biofeedback Therapies
Zhaoyuan Su, Junior, Architectural Studies, FAA

Invisible Injuries: Examining the Effect Recurring Concussions Have on Depressive Symptoms in Collegiate Athletes
Belinda A Grant, Senior, Psychology, LAS

Contextualizing Difference
3:15 PM — 4:15 PM, Room 404
An Unnatural and Detestable Crime: Accusations of Sodomy in the British Royal Navy, 1680-1830
Mary Schiavone, Senior, English and History, LAS

James Bond: How History Has Shaped 007
Dylan San Roman, Junior, Journalism, COM

Tanizaki’s Naomi, Nabokov’s Lolita, and Naomi’s Lolita: Exoticism of a New Era
Lingjun Jiang, Senior, Art History, FAA

Food and Nutrition
3:15 PM — 4:15 PM, Room 406
Social Marketing Campaign to Promote Healthy Eating within a Store in Champaign County, Illinois
Zainab Alaka, Senior, Community Health, AHS

The Impact of Meal Timing on the Food Insecurity Obesity Paradox
Chanyoung Choi, Junior, Molecular & Cellular Biology, LAS

The Relationship of Eating Behavior and Food Intake Recall
Frederick Yang, Senior, Food Science & Human Nutrition, ACES

Technology and Innovation
3:15 PM — 4:15 PM, Room 407
Megan Coleman, Junior, Computer Engineering, ENG
Nidhi Dholaria, Freshman, Computer Science, ENG
Han Jiang, Freshman, Mathematics & Computer Science, LAS
Hanna Chen, Freshman, Systems Engineering & Design, ENG

Safety Head Gear
Ishaan Thakur, Freshman, Industrial Engineering, ENG
Sanat Pandey, Freshman, Electrical Engineering, ENG

Testing the Future: Synthesizing Large-Scale SDN Workloads
Isabella Lee, Sophomore, Computer Science, ENG

Marginalized Medicine
3:15 PM — 4:15 PM, Room 314A
Active Families, Healthy Families: Adapting Physical Activity Lessons of a Hispanic Health Program
Stephanie Gil, Senior, Community Health, AHS

An Inquiry into the Ethical Implications of the Portrayal of Mental Illnesses in Video Games
Brittany Lundberg, Junior, English, LAS

The Transformation of Midwifery and Politics in the United States during the 20th Century
Meghan McCoy, Senior, English, LAS

POSTER SESSIONS

PA SESSION — SCIENCE AND MATHEMATICS
9:00 AM — 10:15 AM, Illini Room A

An Investigation of the Accuracy of CIGALE SED Galaxy Property Calculations when Range of Wavelengths Included is Varied
Brooke Polak, Senior, Engineering Physics, ENG

Application of Automatic Speech Recognition Technology for Dysphonic Speech Assessment
Hannah Li, Junior, Speech & Hearing Science, AHS
Emily Heuck, Junior, Speech & Hearing Science, AHS
Emily Demick, Junior, Speech & Hearing Science, AHS
Theresa Murphy, Junior, Speech & Hearing Science, AHS

Cancer Neoantigens as Targets for T-Cell Responses
Abigail Brown, Junior, Molecular & Cellular Biology, LAS

Characterization of the Microorganism Related to the Pulmonary Fibrosis
Yudong Ren, Senior, Molecular & Cellular Biology, LAS

Characterizing Sulfolobus Spindle-shaped Viruses from Yellowstone National Park and Mutnovksy Volcano
Joseph DeMuro, Junior, Molecular & Cellular Biology, LAS

Controllable Local Loss in a Non-Hermitian Quantum System
Samantha Lapp, Senior, Engineering Physics, ENG

Detection of Acetylcholine Using Modified Electrodes
Sidrah Ahmed, Senior, Chemistry, LAS

Detection of Neuropeptides in Cellular Release via Mass Spectrometry
Ashley Lenhart, Senior, Chemistry, LAS

Determining the Effects of PTB Ablation in Mouse Sertoli Cells on Fertility
Danielle Yee, Sophomore, Molecular & Cellular Biology, LAS

Determining the Relationship Between hnrnpi and Colorectal Cancer
Wesley Tung, Junior, Molecular & Cellular Biology, LAS

Developing Transfer Matrix of LP Modes of an Optical Fiber Using SLM
Hyon-Soo Yunn, Junor, Engineering Physics, ENG
Oliver Wang, Junior, Engineering Physics, ENG
Oscar Araiza Bravo, Senior, Engineering Physics, ENG

Differential Behavior of Porcine Mesenchymal Stem Cells from Bone Marrow and Adipose During Osteogenic Differentiation on a Glicosaminoglycan Hydrogel Scaffold for Bone and Cartilage Tissue Engineering
Sarah Womack, Senior, Molecular & Cellular Biology, LAS

Effects of Circadian Disruption on Spermatogenesis in Long-Evans Rats
Haley Penkala, Sophomore, Molecular & Cellular Biology, LAS

Effects of Left vs. Right Temporal Lobe Epilepsy on the Reproductive System
Lillian Scanlon, Senior, Molecular & Cellular Biology, LAS

Effects of Obesity and Type of Diet on the Morphology of Intestinal Epithelial Tissue
Shovik Patel, Junior, Molecular & Cellular Biology, LAS

Evaluating Loss of Motility in Tomato-Infecting Xanthomonas Strains
Tanvi Majumdar, Sophomore, Natural Resources & Environmental Sciences, ACES

Examining the Interaction Between Chlorpyrifos Toxicity and Circadian Disruption in a Rodent Model
Kai Kobayashi, Senior, Animal Sciences, ACES
Margaret Richards, Senior, Animal Sciences, ACES

First Principles Magneto-Optical Kerr Effect (MOKE) Calculations in High Neel Temperature Antiferromagnetic Materials
Krithik Puthalath, Senior, Materials Science & Engineering, ENG

GABA Detection with Nano-ITIES Pipette Electrodes
Yuanxuan Wei, Senior, Chemistry, LAS
Pitchaya Vitchitcharoenpaisarn, Senior, Chemistry and Molecular & Cellular Biology, LAS

Glioblastoma Tumor Model to Analyze the Mechanisms of Resistance to Chemotherapy
Gabrielle Wolter, Senior, Bioengineering, ENG
The Economic Value of Solar Photovoltaic Electricity in the US Midwest
Camille Farruggio, Junior, Engineering Physics, ENG

The Effect of Pro-Inflammatory Cytokine Stimulation on Astrocyte Chemokine Production
Claire Walsh, Junior, Animal Sciences, ACES

The Effects of Stress on Memory and Inflammation in the Mice Model
Yolonda Bradshaw, Senior, Animal Sciences, ACES

The Function of SoxNeuro in the Development of Drosophila Optic Lobe Medulla
Tongyu Zhang, Senior, Molecular & Cellular Biology, LAS

The Upper-respiratory Infection Impedes the Remyelination Potential
Ye Wool Kim, Senior, Animal Sciences, ACES

Total Protein Assay as a Step in Peptidomics Analytical Frame Work
Rohi George, Junior, Chemistry, LAS

Transverse-Mode Stimulated Emission Tomography of a Fiber Photon-Pair Source
Oscar Araiza-Bravo, Senior, Engineering Physics, ENG

Understanding the Human AUTS2 Syndrome Using a Mouse Mutation 16Gso
Sydney Luu, Junior, Molecular & Cellular Biology, LAS

PB SESSION — EDUCATION, SOCIAL SCIENCES, AND HUMAN BEHAVIOR
9:00 AM — 10:15 AM, Illini Room C

A Dispositional View of Self-Confidence
Asura Osborne, Senior, Psychology, LAS

A Systematic Review of Forensic Interviewers Protocols
Jenna Mathews, Sophomore, Social Work, SSW

An Educational Study of What-If Worlds Through Minecraft Modding
Philip Park, Junior, Mathematics, LAS

Black Men Love: Hypermasculinity Challenged in Tongues Untied and Paris is Burning
Elizabeth Schindler, Junior, English, LAS

Child Exposure to Intimate Partner Violence
Claudia Ladzik, Senior, Human Development & Family Studies, ACES

Elena Wright, Senior, Human Development & Family Studies, ACES
Paige Vande Vusse, Sophomore, Human Development & Family Studies, ACES
Delaney Walsh, Junior, Human Development & Family Studies, ACES
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<tr>
<td>Comparative Study of Chinese International Student in American and</td>
<td>Cora Low, Senior, Anthropology, LAS</td>
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<td>Taiwanese Universities</td>
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<td>Cultural Sensitivity for Latina/o Youth in Afterschool Programs</td>
<td>Crystal Moreno-Garcia, Junior, Animal Sciences, ACES</td>
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<td>Do Parents’ Socialization Goals Influence How They Respond to</td>
<td>Raees Meghani, Senior, Psychology, LAS</td>
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<td>Children’s Performance?</td>
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<td>Effects of Spokesperson’s Attractiveness and Social Dominance on</td>
<td>Morgan Leopold, Senior, Advertising, COM</td>
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<td>Persuasion</td>
<td>Qing Qing Natalie Ang, Senior, Advertising, COM</td>
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<td>Olivia White, Senior, Advertising, COM</td>
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<td>Four Dead in Ohio</td>
<td>Claudia Piwowarczyk, Sophomore, History, LAS</td>
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<td>Investing in Service: Professionalization Effects on the Provision</td>
<td>Thomas Dowling, Senior, Political Science, LAS</td>
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<td>Non-industrial Private Forest Landowners Management Process: A</td>
<td>Kealie Vogel, Junior, Natural Resources &amp;</td>
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<td>Qualitative Study about Goals, Direction, and Opportunities</td>
<td>Environmental Sciences, ACES</td>
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<td>Perceptual Confusion in Vowels Produced by Speakers with</td>
<td>Alison DeLuca, Junior, Speech &amp; Hearing Science, AHS</td>
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<td>Dysphonia</td>
<td>Alexandra Nowak, Junior, Speech &amp; Hearing Science, AHS</td>
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<td>Jillian Atkenson, Junior, Speech &amp; Hearing Science, AHS</td>
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<td>Personality's Role in the World's Greatest Deliberative Body- How</td>
<td>Matthew Rice, Junior, Political Science, LAS</td>
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<td>the Big Five Drive the Rise of U.S. Senators to Party Leadership</td>
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<td>Racial Bias in Sentencing and Courts</td>
<td>Kanishk Patel, Senior, Political Science, LAS</td>
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<td>Stereotype Threat Within Political Participation</td>
<td>Cristina Marlia, Freshman, Political Science, LAS</td>
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<td>Telepresence in Virtual Reality (VR) Branded Content: Does Device</td>
<td>Aparna Sivasankaran, Senior, Advertising, COM</td>
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<td>The Cross-linguistic Interpretation and Use of the Count/mass</td>
<td>Anqi Hu, Senior, Linguistics, LAS</td>
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<td>The Differential Effect of Prestige on Individual Corruptive</td>
<td>Yiwei Zhang, Senior, Psychology, LAS</td>
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<td>Tendencies</td>
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<td>The Importance and Growth of Handwriting for Children</td>
<td>Jordan Ginsburg, Senior, Human Development &amp;</td>
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<td>Family Studies, ACES</td>
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<td>The Labels and Policies of Green Political Parties</td>
<td>Sowmiya Raju, Sophomore, Global Studies, LAS</td>
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<td>The Relationship Between Attachment and Emotion Regulation with</td>
<td>Madeline Johnson, Senior, Psychology, LAS</td>
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<td>Consideration of Context</td>
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<td>The Role of Chinese and American Parents’ Responses to Children’s</td>
<td>Duhlia Alfaro, Senior, Psychology, LAS</td>
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<td>When Intuitions Fail Us: The Conflict Between Formal Knowledge and</td>
<td>Ryan Lin, Junior, Engineering Mechanics, ENG</td>
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<td>Embodied Experience</td>
<td>Patrick Kwon, Junior, Engineering Physics, ENG</td>
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<td>Demographics in Bond Sentencing in Domestic Violence Court</td>
<td>Jason Chang, Freshman, Systems Engineering &amp;</td>
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<td>Congressional Careers</td>
<td>Yanina Villagomez, Sophomore, Political Science, LAS</td>
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<td>PC SESSION — HEALTH AND WELLNESS</td>
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<td>A Content Analysis of Food and Beverage Advertising On Children’s</td>
<td>John Balch, Senior, Advertising, COM</td>
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<td>Television: Focus On Health Persuasion Techniques</td>
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<td>A Novel Approach to Assess Muscle Mass: Verbal Fluency Tests</td>
<td>Sonia Cabrera, Junior, Community Health, AHS</td>
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<td>A Silent Culprit: The Impact of Parental Stress on Children's Health</td>
<td>Yujin Lee, Junior, Bioengineering, ENG</td>
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<td>Angelica Cabrera, Senior, Psychology, LAS</td>
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<td>Automatic Speech Analysis and Vowel Confusion in Dysphonic Speech</td>
<td>Monique Martinez, Junior, Speech &amp; Hearing Science, AHS</td>
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<td>Daina Polikaitis, Junior, Speech &amp; Hearing Science, AHS</td>
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<td>Charity Care Reimbursement</td>
<td>Gianna Gradowski, Sophomore, Community Health, AHS</td>
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<td>Jane Johnsey, Freshman, Community Health, AHS</td>
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<td>Amaan Khan, Junior, Community Health, AHS</td>
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<td>Zayna Jan, Junior, Community Health, AHS</td>
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</table>
Development of Automatic Speech Analysis Tool for Measuring Intelligibility of Dysphonic Speech
Lauren Kaiser, Junior, Speech & Hearing Science, AHS
Marissa Happ, Junior, Speech & Hearing Science, AHS
Teksong Eap, Junior, Speech & Hearing Science, AHS

Do Bedtime Stories Fight Obesity?
Grace Lupo, Senior, Food Science & Human Nutrition, ACES
Rachel Sachs, Sophomore, Food Science & Human Nutrition, ACES
Abigail Olmstead, Junior, Food Science & Human Nutrition, ACES

Effects of Exercise on Immune Responses to Vaccination in Chronically Stressed Mice
Selena Wang, Sophomore, Health Sciences, Interdisciplinary, AHS
Julia Beck, Sophomore, Molecular & Cellular Biology, LAS

Factors Associated with Arousal and Anxiety in Parkinson’s Disease Patients During Postural Tasks
Rongyi Sun, Senior, Molecular & Cellular Biology, LAS

From the Ground Up: Promoting Root Vegetable and Legume Consumption among Hispanic Families
Brenda Munguia, Junior, Community Health, AHS

Impact of Age-related Hearing Loss on Strategic Attention
Stephany Burz, Senior, Psychology, LAS
Lauren Kaiser, Junior, Speech & Hearing Science, AHS

Ineffective Bedtime Routines are Associated with Higher BMI Percentiles
Paulina Cygan, Junior, Biology, LAS
Ana Tovar, Junior, Human Development & Family Studies, ACES

Initial Insights on the Barriers to Employment for Previously Incarcerated Individuals and Individuals Who Have Aged out of Foster Care
Kristi Escobar, Sophomore, Kinesiology, AHS
Alexis Koronkiewicz, Sophomore, Kinesiology, AHS

Lutein Across the Lifespan
Madison Podjasek, Junior, Kinesiology, AHS
Ethan Rocha, Junior, Kinesiology, AHS

Relationships Between Fatty Acids Intake and Mood and Mental Health in Adults
Megan Reingold, Senior, Food Science & Human Nutrition, ACES

Relationships Between Hepatic Steatosis and the Gastrointestinal Microbiota
Alice Pen, Senior, Molecular & Cellular Biology, LAS

The Effect of Dysphonia, Age, and Gender on Automatic Speech Transcription
Megan Carrigan, Junior, Speech & Hearing Science, AHS
Elizabeth Foster, Junior, Speech & Hearing Science, AHS

The Health Status of Illinois Counties With and Without Hospitals
Kaitlyn Clark, Junior, Community Health, AHS
Sarah Cavanaugh, Freshman, Community Health, AHS
Emily Sandoval, Junior, Community Health, AHS
Lauren McGuire, Junior, Community Health, AHS

The Relationship Between Bristol Stool Scale Scores and Fecal Microbiota Composition
Artiom Veller, Junior, Molecular & Cellular Biology, LAS

Variability in Eating Frequency is Associated with the Human Gastrointestinal Microbiota
Elana Benishay, Senior, Food Science & Human Nutrition, ACES

We Are Family: Understanding the Relationship Between Latino Families and Mealtime Routines
Sam Hinton, Senior, Community Health, AHS
Nataly Quito, Junior, Human Development & Family Studies, ACES

XPO-1 Interaction With KPNA-2 Confirmed Using Co-Immunoprecipitation in ER_ (+) Breast Cancer Cells and Interaction Increased With Tamoxifen Treatment
Ozan Imir, Senior, Molecular & Cellular Biology, LAS

PD SESSION — SCIENCE AND MATHEMATICS
10:45 AM — 12:00 PM, Illini Room A

A Novel Insulin-like Growth Factor 2 Mutation in Mice Increases Body and Tissue Weights
Meagan Karuhn, Senior, Animal Sciences, ACES

Analyzing Inclusion Criteria of 7000 Cochrane Systematic Reviews
Xiaoru Dong, Senior, Statistics, LAS
Jingyi Xie, Junior, Statistics, LAS

Anion Concentrations Across a Deep Vadose Zone, Eel River Critical Zone Observatory, Northern California
David Raynes, Junior, Geology, LAS

Automated Ki-67 Scoring and Correlation with IR-based Digital Histopathology
Angela Lee, Sophomore, Computer Science, ENG

Cdca5: Notch your Average Protein
Abby Gaffner, Junior, Molecular & Cellular Biology, LAS
Characterization of S-layer Deficient Mutants in Sulfolobus islandicus
Rebecca Wipfler, Junior, Molecular & Cellular Biology, LAS

Degenerate Diffusions on Carnot Groups
Rizhao Qiu, Freshman, Mathematics, LAS

Determining the Structure of a Mutant Cytochrome c Peroxidase that Mimics the Active Site of a Heme-Copper Sulfite Reductase
Annika Lee, Junior, Chemistry, LAS

Development of a Dual-Analyte Probe for Ischemia-Reperfusion Monitoring
Zhouyang Zhu, Junior, Biochemistry, LAS

Effects of Bisphenol-A and Methoxychlor on the Development of Xenopus laevis Primordial Germ Cells
Hajera Afreen, Sophomore, Molecular & Cellular Biology, LAS

Effects of Dopaminergic Drugs on the Attention and Impulsive Behavior of Developmental Methamphetamine Exposed Sprague-Dawley Rats
Fiona Kuo, Junior, Animal Sciences, ACES

Effects of Omega Three Fatty Acids and Neuronal Cooling in Lessening the Severity of Altered Structural Properties of Cortical Neurons due to Traumatic Brain Injury
Sai Susmitha Ravi, Junior, Molecular & Cellular Biology, LAS

Effects of Silanol Density of Titanium Metal Oxide Catalysts on Rates and Selectivities for Alkene Epoxidation
Alayna Johnson, Sophomore, Chemistry, LAS

Event-Related Brain Potentials Reveal Differential Task Dependency of Semantic Processing Across Parafoveal and Foveal Vision
Melissa Coffel, Senior, Psychology, LAS

Expanding the Genetic System of Hyperthermophilic Archaeon Sulfolobus acidocaldarius
Serina Taluja, Junior, Molecular & Cellular Biology, LAS

From the Visible to the Invisible: Patterns of Parasitism in Illinois Birds
Krti Tallam, Junior, Natural Resources & Environmental Sciences, ACES

GOS2: Establishing a Role in Breast Epithelial Differentiation and Cancer
Ema Khan, Junior, Molecular & Cellular Biology, LAS

Generating Language on Twitter
Srivathsan Subramanian, Sophomore, Statistics, LAS
Prajakti Jinachandran, Sophomore, Mathematics & Computer Science, LAS
Jayanti Supranch Murty, Freshman, Computer Engineering, ENG
Ho Yin Au, Senior, Mathematics & Computer Science, LAS

Hippocampally Mediated Viewing is Critical for our Ability to Discriminate Between Similar Relational Memory Representations
Cagla Unal, Senior, Molecular & Cellular Biology, LAS

Impacts of Circadian Disruption on Estrous Cyclicity and Folliculogenesis in the Female Rat
Angel Chu, Senior, Molecular & Cellular Biology, LAS

Jose Bucio, Senior, Agricultural & Biological Engineering, ACES

Influence of Hypothalamic Input on Pituitary Stem Cell Proliferation and Differentiation
Richard Gonigam, Junior, Molecular & Cellular Biology, LAS

Ion Irradiation Simulations to Study Quantum Dot Formation in III-V Semiconductors
Michael Toriyama, Junior, Materials Science & Engineering, ENG

Larger Horses Use More Extended Fetlock Postures than Smaller Horses
Rebecca Vining, Junior, Anthropology, LAS

Lipid-Protein Binding of PH Domain Containing Proteins
Lucy Yao, Senior, Molecular & Cellular Biology, LAS

Mice Lacking ISG15-Specific Deubiquitinase USP18 Exhibit Autoinflammation and Dysregulation of Circulating Chemokines
Katrina Gerhard, Junior, Molecular & Cellular Biology, LAS

Characterization of the Chromosomal Cohesion Dynamics and Regulation
Viraat Goel, Junior, Bioengineering, ENG

Molecular Analysis of Replication Protein A Subunits 2 and 3
Elidas Fatima, Senior, Molecular & Cellular Biology, LAS

Petrogenetic Relationship Between Mafic Enclaves, the Alta Stock and Dikes in Albion Basin, Utah
Yunhe Cui, Senior, Geology, LAS

Preparation of Photoluminescent Porous Silicon Nanoparticles for Biological Applications
Andrea Perry, Sophomore, Materials Science & Engineering, ENG

Role of MALAT1 In Regulating the Alternative Splicing of Genes Involved In Tumor Progression and Angiogenesis
Sri Kondabattula, Senior, Molecular & Cellular Biology, LAS
Rusc Protein Family Localization in Early Xenopus Embryos
Rahul Maini, Sophomore, Molecular & Cellular Biology, LAS

Searching for Gravitationally Lensed Blazars with DES, SPT, and Radio
Alexander Navarre, Senior, Physics, LAS

Simultaneous Monitoring of Acetylcholine Release from Cultured Aplysia californica using Amperometric Measurement and Intracellular Recording of Action Potential
Miwei Hu, Senior, Chemistry and Molecular & Cellular Biology, LAS

Structure and Function of a Head-to-middle Cis-prenyltransferase: Isosesquilavandulyl Diphosphate Synthase
Jianan Zhang, Senior, Molecular & Cellular Biology, LAS

The Effect of Zinc on the Differentiation of Adipose-derived Stem Cells (ASC) into Osteoblasts
Joshua Bertels, Senior, Molecular & Cellular Biology, LAS

Validating a Theoretical Forearm Protonation and Supination Task
Jessica Wcislo, Senior, Molecular & Cellular Biology, LAS

Joseph Nangachiveettil, Senior, Psychology, LAS

Sediment Characteristics of Biogenic Sand Dunes on Kiritimati island, Kiribati
Nikolas Merten, Sophomore, Earth, Society & Environmental Sustainability and Political Science, LAS

Analyzing the Effect of Climate Change on Atmospheric Rivers
Robert Filipiuk, Freshman, Aerospace Engineering, ENG

How can Endolysins Improve Cheese Safety?
Meher Jain, Freshman, Chemical & Biomolecular Engineering, LAS

Phosphoinositide Binding of PH Domain-Containing Proteins
Ryan Emmanuel, Senior, Molecular & Cellular Biology, LAS

PE SESSION — HEALTH AND WELLNESS
10:45 AM — 12:00 PM, Illini Room C

Age Contributions in Exercise Motivation, Regulation, and Behavior
Jordan Barry, Junior, Molecular & Cellular Biology, LAS

An Examination of Affective Change in the Absence of Physical Sensation
Stephen Koziel, Senior, Community Health, AHS

Argument Analysis of Alzheimer’s Disease Research Papers
Novejot Sandhu, Senior, Molecular & Cellular Biology, LAS

Biological, Behavioral, Maternal, Paternal and Social Factors Associated with the Telomere Length in Children: A Systematic Review
Elana Zelden, Senior, Molecular & Cellular Biology, LAS

Comparative Analysis of Workflow Management Systems for Production Genomics Analyses
Cynthia Liu, Junior, Bioengineering, ENG

Demographic Description of Hispanic Immigrants in Rural America
Edmond Kim, Senior, Statistics, LAS

Does Father Participation Affect Salivary Telomere Length?
Clare Stanhope, Senior, Community Health, AHS

Effectiveness of Translations of Literal to Visual Methods in the Afro-Centered Abriendo Caminos Program (ACAC)
Gertrude Namara, Senior, Molecular & Cellular Biology, LAS

Exploring Stress: College Students at Work and Play
Robert Klein, Senior, Agricultural Leadership & Sciences Education, ACES

Got (breast)milk?
Emma Flosi, Junior, Food Science & Human Nutrition, ACES

Influences of Training on Lower Limb Kinematics of Female Runners
Elizabeth Phillips, Junior, Anthropology, LAS

Insulin Receptor Substrate 2 is Required for Endometrial Stromal Cell Differentiation
Shreya Singh, Senior, Molecular & Cellular Biology, LAS

Migration to the United States: The Association of Acculturation, Depression, and Dietary Patterns
Kimberly Galvez-Ortega, Senior, Psychology, LAS

Perceived Weight Classification in Comparison to Calculated Body Mass Index: Familial Trends in Accuracy among Parents and Adolescents
Stacy Chan, Senior, Food Science & Human Nutrition, ACES
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<td>Personality Traits Influence How Individuals with Spinal Cord Injuries Feel during Lower-limb Exercise</td>
<td>Stephanie Alvarado, Senior, Kinesiology, AHS</td>
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<td>Katrina Botto, Junior, Kinesiology, AHS</td>
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<td>Phonetic Mistakes Made During Speech-In-Noise Test by Tinnitus Patients</td>
<td>Megan Foy, Junior, Speech &amp; Hearing Science, AHS</td>
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<td>Relationship Between Multiple Sclerosis and Retinal Health</td>
<td>Nitesh Kumar Kumar, Senior, Kinesiology, AHS</td>
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<td>Athina Simotas, Senior, Health Sciences, Interdisciplinary, AHS</td>
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<td>Connor Robbs, Senior, Integrative Biology, LAS</td>
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<td>Relationship of Eating Awareness and Snacking Behavior: Experimental Evidence among Young Adults</td>
<td>Crystal Lopez, Sophomore, Chemistry, LAS</td>
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<td>Relationships Between Sugar Consumption and Depression, Anxiety, and Stress in Adults</td>
<td>Amanda Rhee, Junior, Molecular &amp; Cellular Biology, LAS</td>
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<td>The Acute Effects of Intense Interval and Moderate Continuous Exercise on Cognition</td>
<td>Joseph Ritondale, Senior, Kinesiology, AHS</td>
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<td>The Incredulity of Contemporary Cardiologists: Integrated imaging as a Marker for Diagnosing PAD in Preclinical Models</td>
<td>Than Huynh, Junior, Bioengineering, ENG</td>
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<td>The Relationship Between Lutein Levels and Body Fat</td>
<td>Marc Sleiman, Sophomore, Molecular &amp; Cellular Biology, LAS</td>
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<td>Using Visual Tools to Elicit Patient Perspectives on BMI Screening and Preventive Care: The Young Adult Speaks Project</td>
<td>Devaki Belwalkar, Senior, Food Science &amp; Human Nutrition, ACES</td>
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<td>Rachel Song, Senior, Molecular &amp; Cellular Biology, LAS</td>
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<td>Rachael Remlinger, Junior, Social Work, SSW</td>
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<td>Who Makes a Better Leader? Male vs. Female Leaders in Healthcare</td>
<td>Gabrielle Adochio, Senior, Community Health, AHS</td>
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<td>Erin Dolan, Junior, Community Health, AHS</td>
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<td>Jessica Lee, Senior, Community Health, AHS</td>
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| A Case Study of Political Integration Through Ethnic Entrepreneurship | Nick Thompson, Senior, Anthropology, LAS                              |
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| A Multi-method Investigation of the Longitudinal Association Between Inhibition Deficits and Depressive Symptoms | Kimberly Galvez-Ortega, Senior, Psychology, LAS                       |
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| An Examination of NASA Funding: Causal Factors, Funding Trends, and the Implication of These Findings | Kevin Wenzel, Senior, Political Science, LAS                          |
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| Detection of Fraudulent Astroturf Agents with Natural Language, User Pattern, and Social Network Analysis Over Large Graphs | Austin Chung, Senior, Computer Science & Linguistics, LAS             |
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| Distortions in Scientific Literature - A Replication Analysis of Greenberg’s Citation Network of 302 Alzheimer's Science Research Papers | Xiaoru Dong, Senior, Statistics, LAS                                  |
|                                                                     | Tianying Zhou, Senior, Statistics, LAS                                 |
|                                                                     | Manting Huang, Junior, Statistics, LAS                                 |
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| I Can’t Tell You Why, but I Disagree with You: Partisanship and Ideological Constraint | Shawn Kim, Senior, Political Science, LAS                             |
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| Identifying Post-High School Transition Outcomes for Individuals with Down Syndrome | Melissa Pietrowicz, Junior, Speech & Hearing Science, AHS              |
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| Investigating the Relationship Between University Students’ Preferences on Studying Environment and Relevant Academic Results Influences | Chon Kit Kuok, Junior, Computer Science, University of Macau          |
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| Nostalgia and Advertising                                           | Qing Qing Natalie Ang, Senior, Advertising, COM                       |
|                                                                     |                                                                        |
| A Qualitative Comparison of Factors Affecting Teacher-pupil Interaction between American College Students and Macau College Students | Chi Hou Chao, Junior, Government and Public Administration, University of Macau |
|                                                                     | Mei Han Kong, Junior, English Education, University of Macau           |
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| Strategic Attention in Individuals with Amnestic Mild Cognitive Impairment | Julia Rajan, Sophomore, Psychology, LAS                               |
|                                                                     | Andrea Paolella, Junior, Speech & Hearing Science, AHS                 |
|                                                                     |                                                                        |
| Studying Abroad: Increasing Future Educators Opportunities at UIUC  | Ellen Reckamp, Freshman, Middle Grades Education (Grades 5-8), EDU    |
|                                                                     | Devon Jackson, Freshman, Elementary Education (Grades 1-6), EDU       |
Strategies for Supporting Social Inclusion of a Child on the Autism Spectrum in the Classroom
Lauren De Vries, Senior, Speech & Hearing Science, AHS
Emily Heuck, Junior, Speech & Hearing Science, AHS

The Effects of Alcohol Consumption and Ostracism on Interpersonal Distance Choices among Social Drinkers
Kaleigh Wilkins, Senior, Psychology, LAS

The Effects of Home Visiting on Perinatal Depression
Michele Conforti, Junior, Social Work, SSW

The relationship among mathematics anxiety, parental support and peer support in undergraduate students
Ka Fai Leong, Junior, Mathematics, University of Macau

Threat, Deprivation, and Psychological Distress: The Impact of Childhood Adversities Across Family and Community Levels
Kari Thomsen, Senior, Psychology, LAS

The Effects of Home Visiting on Perinatal Depression
Michele Conforti, Junior, Social Work, SSW

The relationship among mathematics anxiety, parental support and peer support in undergraduate students
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Michele Conforti, Junior, Social Work, SSW

The relationship among mathematics anxiety, parental support and peer support in undergraduate students
Ka Fai Leong, Junior, Mathematics, University of Macau

Making Art, Making Social Change
Yana Martinez, Junior, Gender & Women’s Studies, LAS
Eboni Bradley, Senior, Psychology and Communication, LAS/COM
Mackenzie Schabowski, Sophomore, Gender & Women’s Studies, LAS
Jigeesha Ghosh, Sophomore Psychology, LAS
Monisha Roychoudhury, Freshman, Human Development & Family Studies, ACES
Ryan Wilson, Senior, Journalism, COM
Austin Neumann, Junior, Civil Engineering, ENG
Emille Belluomini, Senior, Psychology, LAS
QingQing Yang, Sophomore, Computer Science & Mathematics, ENG

PG SESSION — SCIENCE AND MATHEMATICS
1:30 PM — 2:45 PM, Illini Room A

Anti-Icing Meter Scale Superhydrophobic Heat Exchangers
Joseph Mayer, Senior, Mechanical Engineering, ENG

Brownian Motion on a CR Sphere
Mingchao Zhang, Sophomore, Mathematics & Computer Science, LAS
Courtney Seckman, Sophomore, Mechanical Engineering, ENG
Hanyu Lu, Junior, Mathematics, LAS
Tianyu Hou, Junior, Mathematics, LAS

Cell Proliferation Rate in Tamoxifen and Selinexor Resistant Cell Lines
Kevin Duong, Junior, Molecular & Cellular Biology, LAS

Constrained Least Square Optimization
Linda Cai, Senior, Computer Science, ENG

Detection of D-amino Acid-containing Peptides in a Sea Slug (Aplysia californica)
Yuquan Tong, Junior, Chemical & Biomolecular Engineering, LAS

Discovery of Glycocins from Pathway Refactoring
Sherri Ho, Senior, Molecular & Cellular Biology, LAS

Dissecting the Roles of the Reverse Gyrase topR2 gene in the Hyperthermophilic Archaeon Sulfolobus islandicus
Emmy Hallett, Junior, Molecular & Cellular Biology, LAS

EPHA4 is Associated with the Evolution of Hopping Gaits Across Mammals
Max Wei, Sophomore, Molecular & Cellular Biology, LAS

Evolution of Progesterone Withdrawal in Primates
Martin Malik, Junior, Molecular & Cellular Biology, LAS
Priya Karkhanis, Junior, Molecular & Cellular Biology, LAS
Loni Sneed, Senior, Food Science & Human Nutrition, ACES

Examining the Impact of Cytolethal Distending Toxin Mediated DNA Damage
Michidmaa Enkhbaatar, Junior, Molecular & Cellular Biology, LAS

Featured Presentations

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

Trust as Expressed between Visually Impaired Alpine Skiers and Their Guides
Ryan Wilson, Senior, Journalism, COM

Gambling with Gametes: A Tale of Two Toxins
Hajera Afreen, Sophomore, Molecular & Cellular Biology, LAS
Golden Ratio Based Partitions of the Integers
Weiru Chen, Junior, Mathematics, LAS

Instance Selection for Classification Problems
Otto Piramuthu, Freshman, Computer Science, ENG

Investigating Eruption Dynamics at Axial Seamount
Blake Spitz, Senior, Geology, LAS

Investigating the Role of STEP61 in Regulating the Total and Surface Expression of HCN Channels
Justine Chee, Junior, Molecular & Cellular Biology, LAS

Investigation of Splicing Misregulation by Rbfox2 in Myotonic Dystrophy Type 1
Feikai Lin, Junior, Molecular & Cellular Biology, LAS

LEED: Where Is It Leading Us and Should We Follow?
Harjot Sidhu, Sophomore, Architectural Studies, FAA

Lipid Composition and Macromolecular Crowding Control CYP2J2-Mediated Drug Metabolism in Nanodiscs
Demetrios Maroutsos, Junior, Molecular & Cellular Biology, LAS

Loss of the USP18 Gene Causes Tissue Specific Increases in Free and Conjugated ISG15
Mohammad Hosseini-Joujili, Junior, Molecular & Cellular Biology, LAS

Militaristic Language Evaluation in Invasive Species Papers
Rachel Janovsky, Senior, Natural Resources & Environmental Sciences, ACES

Molecular Dynamics Simulations Reveal the Conformational Heterogeneity of a Strigolactone Receptor in Parasitic Plants
Qihua Chen, Senior, Materials Science & Engineering, ENG

Optimizing the Oxygen Reduction Activity of Myoglobin-Based Enzyme Models of Heme-Copper Oxidases Through Site-Directed Mutagenesis
Madeline Sponholtz, Senior, Biochemistry, LAS

Reconstitution of the Early Terpenoid-Indole Alkaloid Synthesis Pathway in Camptotheca acuminata
Layna Henry, Senior, Molecular & Cellular Biology, LAS

Sentiment Radicalization in Reddit (Lucania goodei)
Nupoor Gandhi, Sophomore, Computer Science, ENG

SNAP25 Inspired BoNT Inhibitor
Damee Moon, Junior, Molecular & Cellular Biology, LAS

Spontaneous Self-Polarization of Relaxor Ferroelectric PMN-PT in Zero Applied Field
Alexei Grinberg, Senior, Engineering Physics, ENG

sRNA Targetome Hunting: in-silico and in-vivo Screening
Benjamin Abraham, Jr., Senior, Molecular & Cellular Biology, LAS

Studies on the Sub-Nuclear localization and Interaction of Cytolethal Distending Toxins in Host Cells
Bryce Hendren-Santiago, Junior, Molecular & Cellular Biology, LAS

Synthesis and Biological Testing of a Diverse Compound Library Derived from Lycorine
Amanda Cowfer, Senior, Molecular & Cellular Biology, LAS

TDP-43 Knockouts in Testicular Germ Cells - The Stra8 Mouse Line: A Model for Male Infertility
Kathryn Storey, Senior, Animal Sciences, ACES

The Effect of Diet and Body Weight on Hippocampal Neurogenesis
Megan Grako, Junior, Integrative Biology, LAS

The Effect of Lanthionine Ketimine on CRMP1’s Ability to Control Actin Assembly
Ran Yang, Senior, Molecular & Cellular Biology, LAS

The Effects of Cholesterol on Extracellular Vesicle Driven Breast Cancer Metastasis
Hannah McDowell, Senior, Molecular & Cellular Biology, LAS

The Effects of Two Models of Circadian Disruption on Gene Expression in the Suprachiasmatic Nucleus of Adult Long-Evans Rats
Leonardo Molina, Junior, Animal Sciences, ACES

The Infrared-Radio Correlation of Dusty Star Forming Galaxies at High Redshift
Sidney Lower, Senior, Engineering Physics, ENG

The Ligand-receptor Interaction of Netrin in Regulation of Axon Targeting in the Drosophila Visual System
Shihao Liu, Senior, Molecular & Cellular Biology, LAS

The Mathematics of Poker: Extending the Nash-Shapley Model
Tanner Corum, Sophomore, Actuarial Science, LAS

The Role of Prostaglandins in Inducing Sperm Release and Capacitation of Porcine Spermatozoa
Sara Dochnal, Senior, Animal Sciences, ACES
Understanding Human Sorting
Andrew Kuznetsov, Senior, Computer Science, ENG

PH SESSION — FOOD, PLANTS, AND ANIMALS
1:30 PM — 2:45 PM, Illini Room C

The Underground Kingdom and its Effect on Soil Hydrology
Xihe Xu, Freshman, Biology, LAS
Maddy Liberman, Freshman, Natural Resources & Environmental Sciences, ACES

Arthropod Response to a Landscape-Scale Herbicide Experiment: An Exploration of Grassland Birds Prey Base
Rachel Daughtridge, Sophomore, Natural Resources & Environmental Sciences, ACES

Assessing the Influence of Landowner Attitudes on the Availability and Quality of Amphibian Habitat in Human- Constructed Ponds
Jenna Mattes, Sophomore, Natural Resources & Environmental Sciences, ACES

Automated Learning in Aquatic Studies
Jake Ritthamel, Junior, Integrative Biology, LAS

Degradation of Soybean Meal Anti-nutritional Factors via Fermentation with Aspergillus oryzae and Bacillus subtilis
Luke Zimmerman, Junior, Animal Sciences, ACES

Developing an Effective Feedback of Food Behavior Using Food Frequency Questionnaire
Sinan Cetin, Senior, Food Science & Human Nutrition, ACES
Jae Kim, Senior, Food Science & Human Nutrition, ACES

Development of a Long-Term Anesthesia Protocol for Swine
Alyssa Ruston, Freshman, Animal Sciences, ACES

Development of Best Practices for Feeding and Housing Swine in Biomedical Research
Aisha Qazi, Senior, Animal Sciences, ACES

Dietary Patterns and Metabolic Syndrome Among Overweight and Obese Adults
Claire Cheng, Junior, Food Science & Human Nutrition, ACES

Diets High in Fat and Fructose Do Not Lead to Nonalcoholic Steatohepatitis After Three Months in Swine
Emily Tomlin, Senior, Animal Sciences, ACES

Effect of Beef Heifer Development System on Average Daily Gain, Reproductive Performance, and Longevity in the Herd
Sierra Schreiber, Senior, Animal Sciences, ACES

Effects of Restraint Stress on the Gut Microbiota and Gut Barrier Permeability in Mice
Avani Patel, Sophomore, Molecular & Cellular Biology, LAS

Filling in the Gaps: Clonophis kirtlandii in Illinois
Tristan Schramer, Senior, Natural Resources & Environmental Sciences, ACES

Four Structural Variants Associated with Human-directed Sociability in Dogs Are Not Found in Foxes
Estelle Bastounes, Junior, Agricultural & Biological Engineering, ENG

Habitat Utilization and Ranging Patterns in Adult Mantled Howler Monkeys in Response to Forest Structure and Anthropogenic Disturbance
Kiersten Youngquist, Senior, Animal Sciences, ACES

How Much Does your Child Really Eat at Daycare?
Allie Ward, Junior, Kinesiology, AHS
Emily Sandoval, Junior, Community Health, AHS

Injectable Trace Minerals (Selenium, Copper, Zinc, and Manganese) on Milk Yield Performance After an Aflatoxin Challenge in Multiparous Holstein Cows
Juliette Nye, Junior, Animal Sciences, ACES

Neuronal and Astrocytic Marker Staining in Piglet Brains for Analysis of Dietary Assessment
Misha Ahmad, Senior, Global Studies, LAS

Planning a Food Hub in the Upper Sangamon River Watershed
Aaron Gatdula, Senior, Natural Resources & Environmental Sciences, ACES

Reproductive Worker Honey Bees - Social or Altruistic?
Sarah Bransley, Senior, Integrative Biology, LAS

Serotonin in the Peripheral Nervous System: A Novel Attentional Mechanism in a Predatory Molluskan Forager
Yichen Liu, Junior, Molecular & Cellular Biology, LAS
Samantha Haney, Senior, Molecular & Cellular Biology, LAS
Abby Boris, Junior, Molecular & Cellular Biology, LAS

Stereological Assessment of Oocyte Recruitment in the Silver Carp (Hypophthalmichthys molitrix)
Megan Zurliene, Senior, Animal Sciences, ACES

The Correlation Between Caffeine and Calorie Intake in Individuals Ages 18-75
Kati Rudin, Senior (Graduated Fall 2017), Food Science & Human Nutrition, ACES

The Development of the Box
Dylan Rigsby, Senior, Industrial Design, FAA
The Dilemma of Delineation: A Species Level Analysis of Penicillium Section Aspergilloides
Joseph Hindi, Junior, Molecular & Cellular Biology, LAS

The Effects of Varying Fire Frequencies on a Missouri Ozark Oak-Hickory Forest
Justin Vozzo, Junior, Natural Resources & Environmental Sciences, ACES

The Evolution of GABAergic Motor Neuroanatomy Among Plant-Parasitic Nematodes
Hannah Reed, Senior, Crop Sciences, ACES

The Feeding Fallacy: Does the Number of Times You Eat Daily Contribute to Feelings of Anxiety?
Tressa Largent, Freshman, Biology, LAS

Uncovering the Vasopressin Gene in the Red Fox
Jeremy Stutchman, Senior, Animal Sciences, ACES

PI SESSION — EDUCATION, SOCIAL SCIENCES, AND HUMAN BEHAVIOR
1:30 PM — 2:45 PM, South Lounge

An Investigation of Challenges for Special Education Students in Computer Science Classes
Erin Kainrath, Freshman, Special Education, EDU
Grace Goodman, Freshman, Special Education, EDU

Analyzing Consumer Sentiment with Dysfunctional Brand Communities
Bharat Bojja, Freshman, Statistics & Computer Science, LAS

Cooperation with International Environmental Agreements - The Role of Regional Forms of Governance
Gina Gonnella, Senior, Political Science, LAS

Do High School Freshmen Students’ Social-Emotional Learning Needs Differ Between Urban and Non-Urban Settings?
Jenna Mathews, Sophomore, Social Work, SSW

Economic Interdependence and Probability of Conflict: Territorial Disputes as a Moderating Factor
Chase Bloch, Senior, Political Science, LAS

Examining the Relationship Between Color-blind Racial Ideology and Servant Leadership in Police Recruits
Sara Groth, Junior, Psychology, LAS

Explicit and Implicit Learning of Verb Bias under Reversal Learning
Chi Tran, Senior, Psychology, LAS

Going Viral: Characteristics of Newsworthy Tweets
Julia Nusgart, Senior, Political Science, LAS

Hierarchical Capture: Bridging the Gap in Analyses of the Bureaucracy
Stephen Duginger, Senior, Political Science, LAS

Impact of Interpersonal Stress on Adolescent Anxiety and Self-Esteem
Daniel Pien, Junior, Psychology, LAS

Impersonal vs and Null Subjects in Different Varieties of French
Grace Moran, Junior, Linguistics, LAS

Which School?
Rochanda Phillips Clark, Freshman, Middle Grades Education (Grades 5–8), EDU
Ariel Nix, Freshman, Middle Grades Education (Grades 5–8), EDU

Policy Analysis on Child Disability Rights in Morocco
Misha Ahmad, Senior, Global Studies, LAS

Postpartum Suicidal Ideation Among a Sample of Racially/Ethnically Diverse Women: Need for Socio-Cultural Competency in the Public Health Care System
Kelsey Barnett, Senior, Social Work, SSW

Scientific Illustration in Early Modern Europe
Veronica Severini, Senior, Art History, FAA

The Differences in Teaching/learning for Private Preschools vs. Public Preschool
Julia Betman, Freshman, Early Childhood Education, EDU
Alexandra Silver, Freshman, Elementary Education (Grades 1–6), EDU

The Impact of the Syrian Refugee Crisis on Immigration Policy in Europe
Reema Ghabra, Senior, Political Science, LAS

The Intergenerational Transmission of Math Anxiety: The Role of the Quality of Parents’ Math Homework Assistance
Sahana Moodabagil, Senior, Psychology, LAS

The Unique Relation Between Maltreatment and Persistent Depression: A Longitudinal Study on Emerging Adults
Hailey Hedden, Senior, Psychology, LAS

Training and Coaching Underserved Spanish Speaking Families: Empowering Families and Enhancing Children Communication Skills
Tremaine Harris, Freshman, Middle Grades Education (Grades 5–8), EDU
Alexis Chandler, Freshman, Special Education, EDU
Emily Young, Senior, Human Development & Family Studies, ACES
Brianna Baymon, Sophomore, Human Development & Family Studies, ACES

An analysis of How Age Impacts Forensic Interviewing and Interviewing Protocol
Brianna Boynton, Freshman, Global Studies, LAS
Makaila Lozano, Freshman, Undeclared, DGS

PJ SESSION — SCIENCE AND MATHEMATICS
3:15 PM — 4:30 PM, Illini Room A

5-aza Hypersensitivity in Testicular Germ Cell Tumors
Ema Khan, Junior, Molecular & Cellular Biology, LAS
Jennifer Rodríguez, Junior, Molecular & Cellular Biology, LAS

A Catalytic Null Splice Variant of Human Leucyl-tRNA Synthetase with Enhanced Non-Canonical Function
Connor Forsyth, Senior, Molecular & Cellular Biology, LAS

A Cholesterol Metabolite Promotes Breast Cancer Progression via Neutrophil Associated Exosomes
Hannah McDowell, Senior, Molecular & Cellular Biology, LAS

A Multivariate Approach to Understanding the Relationship Between Fat, Brain Health, and Cognitive Abilities
Priscilla Whang, Senior, Psychology, LAS

Almost Beatty Partitions
Xiaomin Li, Sophomore, Computer Science, ENG
Yun Xie, Senior, Mathematics, LAS
Matthew Cho, High School Student

An Algorithm to Categorize Various Types and Levels of Spasticity and Rigidity in the Upper-Arm
Jiahang Liu, Sophomore, Computer Engineering, ENG
Zifei Feng, Sophomore, Computer Science, ENG
Kayla Arquines, Sophomore, Industrial Design, FAA

An Investigation of the Biodistribution of Exosomes using Noninvasive Imaging
Anand Haran, Sophomore, Molecular & Cellular Biology, LAS

An Investigation of the Roles of Structural Elements in Heme-Copper Oxidases Catalytic Activity via Mutagenesis of Myoglobin-Based Enzyme Models
Shehani Gunawardena, Freshman, Biology, LAS

Application of Reduced Order Model for thermochemical Nonequilibrium in Hypersonic Flows
Ali Lasemi, Sophomore, Aerospace Engineering, ENG

Automata and Space-filling Curves
Ziqin Xiong, Senior, Mathematics, LAS
Ruoyu Meng, Senior, Mathematics, LAS

Characterization of Vacuolating cytotoxin - A Binding to Sphingomyelin in Helicobacter pylori Pathogenesis
Seokjoo Choi, Junior, Molecular & Cellular Biology, LAS

Correlation of Missense Mutations in the Conserved Functional Domains of Kv7.2 with Drug-Resistant Epilepsy and Autism
Rebecca Choi, Senior, Molecular & Cellular Biology, LAS

Deleting Phospholipase D Spo14 Augments Yeast Vacuole Fusion
Sabit Ejub, Senior, Molecular & Cellular Biology, LAS

Developing srRNA Affinity Purification as a Tool for Characterizing RNA Regulation in the Prominent Gut Microbe Bacteroides thetaiotaomicron
Nuraini Aguse, Senior, Molecular & Cellular Biology, LAS

Dietary Fiber Produces IL-1β DNA Methylation Changes in the Hippocampus of Adult and Aged Mice Stimulated with Lipopolysaccharide
Gabriel Dungan, Senior, Molecular & Cellular Biology, LAS

Dissecting the Crosstalk Between Synapsis Checkpoint Pathway and DNA Damage Checkpoint Pathway in Oocytes
Lois Suh, Junior, Molecular & Cellular Biology, LAS

Dys-1 Mutations Decrease Effectiveness of Dauer Stage Energy Conservation in Caenorhabditis elegans Through Increased Muscle Activity
Charlotte Nawor, Sophomore, Integrative Biology, LAS
Veronika Laird, Sophomore, Integrative Biology, LAS
Skyler Tiarks, Sophomore, Integrative Biology, LAS
Zoe Schnitzler, Sophomore, Integrative Biology, LAS

Effect of Type 1 Diabetes and Aging on Hydroxypapitate Concentration and Elastic Modulus in the Cortical Bone
Eric Michael, Senior, Mechanical Engineering, ENG

Effects of Dim Light at Night and Di-(2-Ethylhexyl) Phthalate on Locomotor Rhythms and Feeding Behavior
Yesha Patel, Junior, Integrative Biology, LAS

Evaluating the Role of Dopamine 2 Receptor in Altered Response Inhibition and Attention Caused by Circadian Disruption
Chi Tran, Senior, Psychology, LAS

Exploration of Physiological Rhythms using Genetic Algorithms
Quinn Gerdes, Junior, Mathematics, LAS
Jingyu Li, Chemical & Biomolecular Engineering, LAS
Yuliang Fan, Sophomore, Mathematics, LAS
Impact of Prescribed Fire on Carbon Cycling
Benjamin Ray, Freshman, Biology, LAS
Jiayi Huang, Freshman, Biology, LAS

Integrated Analysis of Cancer Mutations and Drug-Gene Interactions for Targeted Therapy
Swan Htun, Junior, Engineering Physics, ENG

Investigating Genotoxicity on Intestinal Proliferating Cells
Yingxing Li, Sophomore, Biochemistry, LAS

Investigating Protein Interactions with Zwitterionic Sulfobetaine Polymers
Elizabeth Murphy, Sophomore, Chemistry, LAS

Investigation of Orc6- and ORCA-interacting Proteins
Sneha Adusumilli, Senior, Molecular & Cellular Biology, LAS

Ion Irradiation Treatment for Nanopatterning of Bacteria Nanocellulose for Clinically Advanced Anti-biofouling Surfaces
Josh Devorkin, Junior, Nuclear, Plasma & Radiological Engineering, ENG

Mechanisms Mediating Anxiety and Fall Risk in Previously Obese and Overweight Patients with Osteoarthritis
Josephine Tsang, Junior, Molecular & Cellular Biology, LAS

Mesospheric Na Variability and Dependence on Geomagnetic and Solar Activity Over Arecibo
Khushboo Jain, Senior, Atmospheric Sciences, LAS

Micron Scale Autonomous Machine Built with 2D Materials
Ziran Zhou, Junior, Mechanical Engineering, ENG

Phosphatidylinositol 3,5-bisphosphate: A Molecular Switch of Vacuolar Fusion and Fission
Annie Guo, Senior, Biochemistry, LAS

Practical Implementation of Optimal Reinsurance Under Distortion Risk Measure
Michael Chang Eui Kim, Junior, Mathematics, LAS
Shuyu Guo, Sophomore, Actuarial Science, LAS
Utsav Thota, Junior, Actuarial Science, LAS
Bowen Shan, Sophomore, Actuarial Science, LAS

Hydrogen Sulfide Production by Odoribacter splanchnichus
Loralee Wilson, Senior, Animal Sciences, ACES

Progress Towards the Synthesis and Derivatization of (+)-Lycoricidine and (+)-Narciclasine
Daniel Olson, Junior, Biochemistry, LAS

Self-Esteem in Children and Youth with Dyslexia or Language Impairment
Rachel Thain, Senior, Speech & Hearing Science, AHS
Tess Valente, Senior, Speech & Hearing Science, AHS
Megan Roome, Senior, Speech & Hearing Science, AHS
See Lok Alvina Cheng, Senior, Speech & Hearing Science, AHS
Jillian Stassus, Senior, Speech & Hearing Science, AHS
Abby Seef, Senior, Speech & Hearing Science, AHS

Structural Disorder of a Metallic Glass under Elastostatic Bending
Jeremy Shin, Junior, Materials Science & Engineering, ENG

Studies on the Requirement of Lysosomal Exocytosis for the Release of Intracellular Bacillus anthracis from Infected Macrophages
Alondra Diaz, Senior, Molecular & Cellular Biology, LAS

Synergistic Effects of High-Fat Diet and DEHP Exposure on Early Fetal Oocyte Development
Tianming You, Junior, Molecular & Cellular Biology, LAS

The Effect of Walking Demands on Accuracy and Brain Activation Levels During the Modified Stroop Task
Devashish Singh, Senior, Biology, LAS

Impact of Pumping on Macronutrient Composition of Human Milk
Autumn Cho, Senior, Biology, LAS

Understanding the Molecular Mechanism of Polymorphism in Helicobacter pylori vacA gene in cytotoxicity
Shan Shan So, Senior, Biochemistry, LAS

WaggleNet - the Internet of Hives and Beyond
Jimmy He, Junior, Computer Engineering, ENG
Xiaolin Wu, Junior, Computer Engineering, ENG
John Rosales, Junior, Computer Engineering, ENG

Spatial and Temporal Distribution of Microfossils in the Sand Dunes of Kiritimati Island, Kiribati
Valerie Ramirez, Sophomore, Natural Resources & Environmental Sciences, ACES

PK SESSION — HEALTH AND WELLNESS
3:15 PM — 4:30 PM, Illini Room C

An Investigation of the Correlation Between Social Needs and Health Outcomes
Frances Schmidt, Junior, Community Health, AHS
Taylor Peters, Junior, Community Health, AHS
Anusha Subramanian, Junior, Community Health, AHS

Policy Analysis of Illinois Public Act 100-0574?
Samantha Noehre, Junior, Community Health, AHS
<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>Association Between ASD Risk and Language Abilities in Infants with Down Syndrome</td>
<td>Caylie Kurtenbach, Senior, Speech &amp; Hearing Science, AHS</td>
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<td>Association Between Food Allergy and Microbiome Status in 1-year Old Infants in STRONG Kids 2 Cohort</td>
<td>Yue Qin, Senior, Food Science &amp; Human Nutrition, ACES</td>
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<td>Association Between Prenatal Depression and Visual Recognition Memory in 7½-Month Old Infants</td>
<td>Amanda McKinley, Senior, Molecular &amp; Cellular Biology, LAS</td>
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<td>Association Between Prenatal Exposure to Benzophenone-3 and Triclosan with Visual Recognition Memory in 7½-Month Old Infants</td>
<td>Mariya Yanovskaya, Senior, Molecular &amp; Cellular Biology, LAS</td>
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<td>Contaminants in Coffee Could be Impacting Your Risk of Cardiovascular Disease</td>
<td>Armina Rizvi, Junior, Health Sciences, Interdisciplinary, AHS</td>
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<td>Developing Effective Feedback for Weight Loss Programs- Weight Chart and 24-hr Food Record</td>
<td>Melanie Cho, Junior, Food Science &amp; Human Nutrition, ACES Xiaohan Zhou, Senior, Food Science &amp; Human Nutrition, ACES Seong Kyung Cho, Junior, Food Science &amp; Human Nutrition, ACES Rebecca Kowalski, Senior, Food Science &amp; Human Nutrition, ACES</td>
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<td>Dietary Connections with Hepatic Health and the Gastrointestinal Microbiota Among Overweight and Obese Adults</td>
<td>Domenica Goyes, Senior, Food Science &amp; Human Nutrition, ACES</td>
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<td>Examining the Impact of Cytolethal Distending Toxin Mediated DNA Damage</td>
<td>Michidmaa Enkhbaatar, Junior, Molecular &amp; Cellular Biology, LAS</td>
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<td>Happy Hearts: Associations of Maternal Depressive Symptomatology on Child Profiles of C-Reactive Protein</td>
<td>Danish Majid, Junior, Molecular &amp; Cellular Biology, LAS</td>
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<td>Hydrogel Platforms to Recreate Glioblastoma Tumor Margins</td>
<td>Patricia Li, Senior, Chemical &amp; Biomolecular Engineering, LAS</td>
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<td>Impact of Breast Pump Usage on the Macronutrient Composition of Human Milk</td>
<td>Autumn Cho, Senior, Biology, LAS</td>
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<td>Impact of Senior Community Service Employment Program on Health of Older Adults</td>
<td>Anna Kanfer, Senior, Agricultural &amp; Consumer Economics, ACES</td>
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<td>Investigating the Correlation Between Ligament Alignment Behavior and Load Testing</td>
<td>Hyeok Jae Lee, Junior, Mechanical Engineering, ENG</td>
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<td>Investigating the Regulation of Ankyrin-G, Kv7 Potassium Channels, and Nav1 Sodium Channels at the Axonal Initial Segment During Homeostatic Plasticity of Hippocampal Neurons</td>
<td>David Cao, Junior, Molecular &amp; Cellular Biology, LAS</td>
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<td>Lets Walk: An Exercise and Age-reattribution Interventions Effect on Physical and Mental Health in Older Hispanic/Latino Adults</td>
<td>Nessa Steinberg, Junior, Community Health, AHS</td>
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<td>Effect of Ethanol on the Perception of Aromas in Alcoholic Beverages</td>
<td>Meghan Viebrock, Senior, Food Science &amp; Human Nutrition, ACES</td>
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<td>Parent Feeding Styles: A Link to Childhood Obesity?</td>
<td>Nadia Hryniewycz, Senior, Integrative Biology, LAS Kassandra Alvarez, Junior, Community Health, AHS</td>
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<td>Personalty Traits Among Recruit Firefighters Predicts Fitness</td>
<td>Michelle Swiatkiewicz, Junior, Kinesiology, AHS Constance Kass, Junior, Health Sciences, Interdisciplinary, AHS</td>
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<td>Regulation of Insulin Sensitivity by Adiponectin and T-cadherin in Diet-induced Obesity</td>
<td>Sari Grad, Senior, Food Science &amp; Human Nutrition, ACES Rebecca Jung, Senior, Food Science &amp; Human Nutrition, ACES</td>
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<td>Relationships Between Dietary Fiber Intake, the Human Gastrointestinal Microbiota and Bone Health</td>
<td>Anne Hou, Senior, Food Science &amp; Human Nutrition, ACES</td>
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<td>Relationships Between Protein and Branched-Chain Amino Acid (BCAA) Intake and Sleep Quality in Adults</td>
<td>Maya Nienaber, Senior, Food Science &amp; Human Nutrition, ACES</td>
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<td>Sex Differences on the Effect of Obesity on Morphology of the Intestinal Epithelium</td>
<td>Angelina Mei, Senior, Molecular &amp; Cellular Biology, LAS</td>
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<td>Sweet Thoughts: An Innovative Approach to Analyze Verbal Fluency Data</td>
<td>Laura Mayorga, Senior, Community Health, AHS</td>
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<td>The Effect of Structural Variation on Ligament Apparent Properties</td>
<td>Ida Ang, Senior, Bioengineering, ENG</td>
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<td>The Influence of Child Attachment Security on the Relationship Between Feeding Responsiveness and Picky Eating Behavior</td>
<td>Samantha Iwinski, Senior, Psychology, LAS</td>
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The Role of Dietary Fats and Fibers on Inflammation and Metabolic Disease
Jessica Bennett, Senior, Molecular & Cellular Biology, LAS

Differences in the Child Weight of Preschoolers According to Caregivers’ Feeding Styles in Chile
Nataly Quito, Junior, Human Development & Family Studies, ACES

PL SESSION — EDUCATION, SOCIAL SCIENCE, AND HUMAN BEHAVIOR
3:15 PM — 4:30 PM, South Lounge

2nd Order Constraint Learning with Stress Context: Can Early Linguistic Experience Affect Implicit Learning in the Language Production System?
Yuan Bian, Senior, Psychology, LAS

Administrative Change and Insurgency in the Sinai, 1967-2017
Meirav Malter, Senior, Global Studies, LAS

An Investigation of the Legislative Proceedings that Take Place to Regulate Output of Greenhouse Gas Emission Into the Global Atmosphere
Jessica Livas, Sophomore, Political Science, LAS

Effects of Co-parenting Quality on Teens Problem Solving Ability During a Dyadic Discussion Task
Zhanea James, Senior, Human Development & Family Studies, ACES

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Zelenka, Elizabeth - Living-Learning Communities Research Initiative Poster Symposium
Zhang, Jianan - Poster Session: PD
Zhang, Mingcho - Poster Session: PG
Zhang, Tongyu - Poster Session: PA
Zhang, Yiwei - Poster Session: PB
Zhao, An - Oral Presentations and Performances: Race, Culture, and Resistance
Zhao, Zhen - Poster Session: PA
Zhao, Xiaohan - Poster Session: PK
Zhou, Ziran - Poster Session: PJ
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