

UNDERGRADUATE

SYM  
P<sup>20</sup><sub>th</sub> S  
IUM

FRIDAY, APRIL 13

**PROGRAM 2018**

**Celebrating research, creative  
endeavor, and service-learning**



# Undergraduate Symposium 2018

## Celebrating Research, Creative Endeavor, and Service-Learning

University of Wisconsin–Madison  
Union South  
April 13, 2018

7:30 a.m.–9:30 p.m.      Poster Set-up—Varsity Hall  
8 a.m.–2 p.m.              Registration—Varsity Hall Entrance  
3:15–5 p.m.                Poster Takedown

### Oral Presentations, Poster Sessions, and Performances

9:30–10:45 a.m.      Session I  
11 a.m.–12:15 p.m.    Session II  
2–3:15 p.m.            Session III

12:45–1:45 p.m.      Celebrating 20 Years of the Undergraduate Symposium—Varsity Hall  
                                  *Speaker: Steven M. Cramer, Vice Provost for Teaching and Learning*  
Friends & Family Reception  
Undergraduate Mentoring Awards

Refreshments will be available in Varsity Hall during Sessions I–III.  
Light hors d'oeuvres will be served during the Friends & Family Reception.

We are very pleased you are joining us for the 20th Annual Undergraduate Symposium at the University of Wisconsin-Madison. Our university proudly honors its multifaceted mission of leading edge knowledge discovery and quality undergraduate education. The two meet in the Undergraduate Symposium. Our 20th anniversary is an extraordinary milestone demonstrating our steadfast commitment to providing a Wisconsin Experience to our undergraduate students and the continual initiative they bring to their pursuit of new knowledge.

*Steven M. Cramer, Vice Provost for Teaching and Learning  
University of Wisconsin–Madison*

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We would like to thank our major sponsors and partners:

<i>Brittingham Trust</i>	<i>Undergraduate Academic Awards Office</i>
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*2018 Undergraduate Symposium Organizing Committee: Raina Bloom, Carina Carreno, Steven M. Cramer, Doug DeRosa, Sarah Hagedon (coordinator), Emilie Hofacker, Maya Holtzman, Marina Kelly, Laurie Mayberry, Yvonne Quamme, Samantha Samreth, Amy Sloane, Amber Smith, Hannah Stephens, Julie Stubbs, Beth Tryon, Thomas Valtin-Erwin*

*A special thanks goes to Stephanie Diaz de Leon of The Wisconsin Union; Patricia Iaccarino, and Carrie Kruse at College Library; Mandy Morrow at DesignLab; Jeff Crucius of the Division of Information Technology; and College Library Computer & Media Center.*



## Key

### Format

AT	Artist Talk
F	Film
PF	Performance
PS	Poster
PR	Project Display
T	Talk/Lightning Style Talk

### Session Time

I	Session 1: 9:30–10:45 a.m.
II	Session 2: 11 a.m.–12:15 p.m.
III	Session 3: 2–3:15 p.m.

### Room

Ag-A,B	Agriculture-A,B
AL	Alumni
F	Forward
FN	First Nation
GV	Governance
IN-A,B	Industry-A,B
LM-A,B	Landmark-A,B
MT	Marquee Theatre
NW-A,B	Northwoods-A,B
SC	Scholars
SW	Sift & Winnow
TR	Traditions
VH	Varsity Hall
WI	Wisconsin Idea

### Index

Last Name, First	Format	Time	Room	#
Badger, Buckingham	PS	III	VH	123

In this example, Bucky Badger will be presenting a poster during Session III from 2–3:15 p.m. in Varsity Hall. The poster number is 123.

## Artist Talks

### Session 2: 11 a.m.–12:15 p.m.

#### MARQUEE

Title	Presenters and Mentors
Glitched: Exploring Avenues for Editing of Digital Media	Hayley Ganslaw, Julie Ganser (Mentor)
Addressing Mass Incarceration and Its Effects on Community Through the Arts	Mackenzie Berry, Sara McKinnon (Mentor)
Home is Where the Racism Is ...	Julia Levine, Jenna Loyd (Mentor)
Neon: Speaking in a Graphic Light	Ben Orozco, Helen Lee (Mentor)

### Session 3: 2–3:15 p.m.

#### MARQUEE

Title	Presenters and Mentors
The Louisville Lip: Muhammad Ali as Hip Hop's First MC	Mackenzie Berry, Sara McKinnon (Mentor)
Contemporary Embroidery	Alyssa Ackerman, Nancy Mladenoff (Mentor)

## Lightning Style Talks

### Session 1: 9:30–10:45 a.m.

#### NORTHWOODS A

Title	Presenters and Mentors
Chronic Absenteeism in Elementary Schools	Maia Rivoire, Eric Grodsky (Mentor)
A Truth Commission for Wisconsin? Repairing Cultural Trauma among Native Tribes	Megan Diermeier, Thomas Dubois (Mentor)
Investigating the Expression and Function of Kinesin Light Chain Isoforms in Embryonic Zebrafish	Conlin Bass, Liz Haynes (Mentor)
Dialogue Based Real Time Authoring of Human Robot Interaction	Ali Zaidi, Mayank Mali, Linda Wu, Bilge Mutlu (Mentor)
A Case Study Of The Media Trust Initiative: The Coral Project	Michael Williams, Susan Robinson (Mentor)
Characterization of Plant Biomass Degrading Microbial Communities	Emanuel Burgos-Robles, Camila Carlos-Shanley (Mentor)
Expression of Nuclear Tcf711 in Mouse Beta-Cells Treated with Palmitate Reduced by GSK3 Inhibitor	Erin Ard, Barak Blum (Mentor)
HEK 293 Cells and Their Ability to Uptake Proteins via Transfection	Maxwell Bado, Li Feng (Mentor)

#### NORTHWOODS B

Title	Presenters and Mentors
Rescue of Neurogenic and Cognitive Deficits of Fragile X Mice through Genetic Reduction of MDM2	Yinghua Zhao, Xinyu Zhao (Mentor)
Concrete Fading: Encoding Information from Different Neural Input Mechanisms	Jay May, John McGinty (Mentor)
Impact of Standing Desks and Movement Breaks on Elementary School Students' Physical Activity Levels	Samuel Pelot, Elizabeth Larson (Mentor)
Role of Autophagy in Cetuximab Resistance in Head and Neck Cancers	Justin Skiba, Randy Kimple (Mentor)
Perfecting the Art of Teaching Math	Rikin Soni, John McGinty (Mentor)

*Continued on next page*

## Lightning Style Talks *continued*

Uncovering Teaching Methods

Siddharth Patel, John McGinty (Mentor)

Targeting Fall Prevention for Deaf Adults: A Community Based Yoga Intervention  
Anastasia Bormann, Kristen Pickett (Mentor)

Using Dual Immune Checkpoint Blockade to Optimize Antitumor Effects in Response to DNA Vaccine Immunization

Lauren Delmastro, Douglas McNeel (Mentor)

### Session 2: 11 a.m.–12:15 p.m.

#### NORTHWOODS A

Title	Presenters and Mentors
Assessing Academic Participation of Land Grant University Professors by Gender	Maria Sanchez, Bradford Barham (Mentor)
Investigating the Role of Yeast Mitochondrial YLR253W and YPL109C in Oxidative Phosphorylation	Keith Kamer, Zachary Kemmerer (Mentor)
The Role of Motor Associations in Concrete Fading Instructional Design	Augustin Bennett, John McGinty (Mentor)
Impacts of Culvert Blockage on Starkweather Creek Inundation	Allison LoBue, Anita Thompson (Mentor)
Teaching Euler's Method through Objects, Diagrams, and Symbols	Jack Rouleau, John McGinty (Mentor)
Autophagy Role in Head and Neck Cancer Resistance to Radiation Therapy	Gopika SenthilKumar, Randy Kimple (Mentor)
High Resolution Structure of the Cardiac Myosin Rod	Mathew Hargreaves, Michael Andreas (Mentor)

#### NORTHWOODS B

Title	Presenters and Mentors
Institutional Literacy Limitations and Approaches Emerging to Combat Them	Diana Pena-Moreno, Maggie Bertucci Hamper (Mentor)
Perceptual Richness Influences Learning and Generalization for Children and Adults	Taylor Johnson, Erin Condon, Ryan Hassett, Ashley Haut, David Menendez, Karl Rosengren (Mentor)
Just Teacher: Ethical Thinking in the Profession of Teaching	Owen Bacskai, Paula Mcavoy (Mentor)
The Validity of The Quick Renal MRI in Pediatric Kidney Disease	Tsewang Dolkar, Thomas Leffler (Mentor)
Challenges of Opioid-Related Substance Use Treatment in Rural Wisconsin	Maanil Kumar, Ryan Westergaard, Wajiha Akhtar (Mentor)
Forage Quality Analysis of Intermediate Wheatgrass and Legume Intercrops	Isabella Huizar, Nicholas Leete (Mentor)
The Role of Community-Based Organizations in Racial Discourse	Jessica Heumann, Bianca Baldrige (Mentor)
Genetic Resistance or Susceptibility in Novel Rat Strains and Implications of Traumatic Brain Injury	Haley Nemeth, Thomas Sutula (Mentor)

### Session 3: 2–3:15 p.m.

#### NORTHWOODS A

Title	Presenters and Mentors
Children's Knowledge Transfer from Touchscreens to Physical Objects	Megan Baryenbruch, Lena Rabinowitz, Yi Tong, Heather Kirkorian (Mentor)
District Leadership for Equity in Racially Diverse School Systems	Wendy Alvarez, John Diamond (Mentor)
Metabolomics Based NMR	Madison Barnet, Carlton Moody, John Markley (Mentor)
Exploring Race and Educational Opportunity for Black Youth	Annette Okafor, Bianca Baldrige (Mentor)

Student Perspectives Regarding an Educational Technology-Making Connections between Visuals

Shehrose Charania, Miranda Zahn (Mentor)

The Spacial-Numerical Association

Joao Catao, Percival Matthews (Mentor)

Cultivation of Pyrolyzed Organic Matters (PyOM) Degrading Soil Bacteria

MZ Yang, Thea Whitman (Mentor)

Protein Classification with Machine Learning

Samuel Berglin, Garvesh Raskutti (Mentor)

Rich Dividends: The Political Economy of Corporations in Education

Ismail El-Hassan, Kathryn Moeller (Mentor)

#### NORTHWOODS B

Title	Presenters and Mentors
Concrete Fading in Learning Abstract Mathematical Concepts	Taylor Lees, Mitchell Nathan (Mentor)
Why Feminist Pedagogy Matters in the Social Justice-Oriented Writing Center	Jesus Galvan, Catherine Marotta (Mentor)
The Exploration of Centrosomal Protein 170 as a Substrate of Polo-Like Kinase 4	Madilyn Sass, Mark Burkard (Mentor)
Determining the Efficacy of Various Teaching Methods in Mathematics	Riley Serman, John McGinty (Mentor)
The Role of the Mechanical Environment in 3D Axon Outgrowth	Drew Hollender, Timothy Gomez (Mentor)
A Flux Balance Analysis Model of <i>Candidatus</i> Accumulibacter Phosphatis CladellA	Matt Kizaric, Francisco Moya Flores (Mentor)
Belonging in College	Mae Edwards, Malika Toguem, Bradford Brown (Mentor)
Lead Resistance Testing of Multidrug Resistant Organisms (MDROs) in the Human Gastrointestinal Tract	Jacqueline Welke, Nasia Safdar (Mentor)
Child Self Control in the Recipe 4 Success Intervention	Anuradha Saini, Kabir Bedi, Ye Rang Park (Mentor)

## Live Performance

### Session 2: 11 a.m.–12:15 p.m.

#### MARQUEE THEATER

Title	Presenters and Mentors
Mea Operae	Dianne Kotsonis, Collette Stewart (Mentor)

### Friends & Family Reception: 12:45–1:45 p.m.

#### VARSITY HALL

Title	Presenters and Mentors
I'm Not Gay, I'm Faking It	Alice Svetic, Kaitlin Verchimak, Kate Corby (Mentor)

## Talks

### Session 1: 9:30–10:45 a.m.

#### AGRICULTURE A

Title	Presenters and Mentors
Assessing the Accuracy of Individuals' Ability Beliefs in Cognitive Training	Tyler Ballweg, C. Shawn Green (Mentor)
Stem Cell Derived GnRH Neurons Response to Kisspeptin10 and Senktide	Courtney Johnston, Ei Terasawa-Grilley (Mentor)
T-Cell Receptor Repertoire of Decidual Mucosal-Associated Invariant T-Cells	Madhu Gowda, Aleks Stanic-Kostic (Mentor)

Identifying the Motivations of Political Donors in Wisconsin Using Computational Methods  
Ross Dahlke, Michael Wagner (Mentor)

Use of Spinal Chord Stimulator in Patients with Lumbar Back and Lower Extremity Diabetic Neuropathy  
Omar Tarawneh, Alaa Abd-Elseyed (Mentor)

#### ALUMNI

Title	Presenters and Mentors
The Effects of Accented Speech on Knowledge Acquisition	Teresa Turco, Maryellen MacDonald (Mentor)
Effects of Diurnal Cortisol and Sleep Adequacy on Cognitive Aging	Alexander Romantz, Ozioma Okonkwo (Mentor)
Optimization of CHCA Matrix Application for Crustacean Neuropeptides for MALDI-MSI	Kylie Helfenbein, Amanda Buchberger (Mentor)
On the Probability of Irreducibility of Random Polynomials with Integer Coefficients	Grigory Terlov, Philip Wood (Mentor)
Yoga as a Promising Treatment for Post-Traumatic Stress Disorder	Katherine Paxon, Gudrun Buhnemann (Mentor)

#### INDUSTRY A

Title	Presenters and Mentors
Which Majors Foster the Most Entrepreneurship?	Junting Wang, Bekhzod Khoshimov, Jon Eckhardt (Mentor)
Advancing Silvopasture in Wisconsin	Emily Thierry, Diane Mayerfeld (Mentor)
Investigating the Role of TCF19 in DNA Damage Repair in AD293 Cells	Lucille Anzia, Dawn Davis (Mentor)
Sleep Quality, Inflammation and Blood Sugar Regulation in Japan and the U.S.	Natalie Galles, Christopher Coe (Mentor)
Evaluation of Cx43 Protein Levels in Control Female Rats Compared to Female Rats Exposed to Nicotine	Jordan Ross, Sathish Kumar (Mentor)

#### INDUSTRY B

Title	Presenters and Mentors
The Persistence of Ritual in Feminist Contemporary Art	Stuart Deets, Shira Brisman (Mentor)
Certification Bodies, CoP's Relationship with Hospital Organizational Change and Food Procurement	Maximilian Vichr, Alfonso Morales (Mentor)
Phylogenetic Relationship of Callirhoe and Napaea (Malvaceae) for the Evolution of Sexual Systems	Jacob Cosby, Melody Sain (Mentor)
Dancers, Warriors, and the Body on Display: Deconstructing Jean Léon Gérôme's Orientalism	Hoyon Mephokee, Nancy Marshall (Mentor)
Dark Night of the Soul: Adverse Effects of Meditation in the West	John Kinney, Gudrun Buhnemann (Mentor)

#### LANDMARK A

Title	Presenters and Mentors
The Effect of Background Noise on Speech Intelligibility in Spontaneous Parkinsonian Speech	Amara Yaeger, Carrie Rountrey (Mentor)
Hypothalamic Estrogen Receptor Alpha Gene Silencing Induces Obesity in Female Rhesus Monkeys	Molly Willging, David Abbott (Mentor)
Badgers, Step Up! Alcohol Prevention, Bystander Intervention and Leadership Development Program	Alexander Latham, Jenny Rabas (Mentor)
From Yoruba Traditions to Contemporary Nigerian Plays	Zhiyun Zhao, Aparna Dharwadker (Mentor)

Mass Spectrometric Analysis of Neuropeptides in Crustacean Hemolymph  
Mengzhou Hu, Kellen Delaney (Mentor)

#### LANDMARK B

Title	Presenters and Mentors
Exploring the Relationship between Race/Ethnicity and Students' Attitudes about Animals in Research	Jinyi Lan, Jennifer Dykema (Mentor)
Solar Lighting in Rural Kenya	Max Roth, James Ewald, Mary Claire Mancl, David Seamon, Megan Sweet, Lesley Sager (Mentor)
Evaluating Repatriation as a Durable Solution to East African Protracted Refugee Situations	Samuel Allen, Robert Kaiser (Mentor)
How Culture Influence Parents' Emotional Impact on Children's Motivation	Quanfa He, Yuri Miyamoto (Mentor)
Engineering the Ligand Specificity of an Alcohol Sensing Biosensor	Matthew Incha, Brian Pflieger (Mentor)

#### SIFT & WINNOW

Title	Presenters and Mentors
Word Order of Subordinate Clauses in Menominee	Allison Fujimoto, Monica Macaulay (Mentor)
The Effects of Caloric Restriction on Endometriosis in Rhesus Monkeys	Kellen McCormick, Joseph Kemnitz (Mentor)
Evaluating the Effects of Environmental Estrogen Induced Proliferation of Human Prostate Cells	Adetola Coker, Will Ricke (Mentor)
The Comparison between Symbolic and Concreteness Fading Instruction in Abstract Mathematics	Catherine Abitz, John McGinty (Mentor)
Relationship FLAGS (For Leaders, Advocates, and Greek Students)	Lauren Silber, Maddie Zimmerman, Tracy Schroepfer (Mentor)

#### TRADITIONS

Title	Presenters and Mentors
Zebrafish Rfx4 Controls Dorsal Midline Formation in the Neural Tube	Carol Xu, Yevgenya Grinblat (Mentor)
Is Timing Everything?: The Role of Time and Intensity in Successful Third-Party Interventions	Jason Geissler, Andrew Kydd (Mentor)
Deifying Beauty: Yang Guifei's Cultural Legacy and Manifestation as Kannon in Sennyu-ji Temple	Alexa Machnik, Yuhang Li (Mentor)
Regulation of Asymmetrically Segregated Cargoes in Mitotic Neural Stem Cells	Helen Heo, Darcie Moore (Mentor)
High Resolution Spectroscopy Diagnostics on the Plasma Couette Experiment	Megan Tabbutt, Cary Forest (Mentor)

### Session 2: 11 a.m.–12:15 p.m.

#### AGRICULTURE A

Title	Presenters and Mentors
Perception of State: Facilitating Object Detection by Activating Its Altered or Unaltered State	Jessie Hwang, Emily Ward (Mentor)
Finding Private Norbert: How Historical Research Aids the Recovery of WWII MIAs	Emma Jardas, David Harrisville (Mentor)
Keeping on Task: Comparing the Influence of Real and Quasi-Rewards on Sustained Attention	Holly Wegener, Emily Ward (Mentor)
Two Sides of the Same Coin: Writing Tutor Styles at the University of Wisconsin–Madison	Erin Guarnieri, Emily Hall (Mentor)
Evaluating the Sand Motor as an Option for Promoting Healthy and Resilient Lake Michigan Beaches	Briana Shea, David Hart (Mentor)

*Continued on next page*

## Talks *continued*

### ALUMNI

Title	Presenters and Mentors
Eva the Engineer: Encouraging Young Women at the Intersection of Engineering and Sustainability	Morgan Sanger, Renee Olley, Angela Pakes Ahlman (Mentor)
Characterization of Uniformity of MoCu Bilayers Used for Superconducting X-Ray Detectors	Rachel Gruenke, Dan McCammon (Mentor)
Possible Mechanisms of Bilingual Advantage on Creativity	Kendra Lange, Joe Austerweil (Mentor)
Writing and Rebelling: The Young Poets of Mexico City and the Legacy of Mario Santiago Papasquiaro	Daniel Walzer, Ruben Medina (Mentor)
Peasant Politics and Plurinationalism: Constructing the Zapatistas through Discourse Analysis	Isaac Mehlhaff, Amy Gangl (Mentor)

### INDUSTRY A

Title	Presenters and Mentors
Hybrid Methods for Well-Mixed Coupled Chemical Reaction Systems	Liancheng Fang, Wai-Tong Fan (Mentor)
Keep Your Enemies Closer: The Benefits of Advice from Opponents	Marco Lopez, Lyn Van Swol (Mentor)
Development of Theranostic Alkylphosphocholine Analogs	Chris Massey, Joseph Grudzinski (Mentor)
Tcf19: A Novel Transcription Factor that Regulates DNA Repair Genes in Pancreatic $\beta$ -cells	Claudia Vilela, Dawn Davis (Mentor)
Predicting the Coefficient of Thermal Expansion of Wisconsin Concrete Using Random Forests	Vanessa Nilsen, Michael Hibbard, Dane Morgan (Mentor)

### INDUSTRY B

Title	Presenters and Mentors
Effects of Plant-Induced Rhizosphere pH Changes on Lamotrigine Uptake in Soils	Rebecca Hoehn, Liz Miller (Mentor)
Proliferation of Down Syndrome Progenitors in iPSC Models	Leslie Huang, Anita Bhattacharyya Consigny (Mentor)
miStudio—A GUI Software for the Analysis and Visualization of Microbiome Data	Weipeng Zhou, Zhengzheng Tang (Mentor)
Does the Expertise of the Demonstrator Affect Strategy Adoption in Mathematics?	Nidhi Deepu Rajan, Martha Alibali (Mentor)
Fitness, Aging, and the Brain: Objectives and Procedures	Christine Rogers, Ozioma Okonkwo (Mentor)

### LANDMARK A

Title	Presenters and Mentors
The Patio Tomato Project	Caroline Hanson, Jeri Barak-Cunningham (Mentor)
The Role of Transcription Factor 19 in Pancreatic Beta Cell Proliferation and Apoptosis	Bilal Malas, Dawn Davis (Mentor)
Understanding the Role of Prostate Fibrosis in Mouse Models of Hormone-Induced Urinary Dysfunction	Brett Mueller, Kyle Wegner (Mentor)
Away from Home: Chinese International Students at UW–Madison	Yuqing Wu, Alice Goffman (Mentor)
Portrayal of an ‘Innocent’ German Public in Swedish Postwar Literature	Kendall Allen-King, Dean Krouk (Mentor)

### LANDMARK B

Title	Presenters and Mentors
Suppressors of ADH2 Mutation in Arabidopsis	Caroline Hanson, Hiroshi Maeda (Mentor)

Toolkit to Increase Accessibility and Inclusion for Children with Autism in Public Institutions	Ougayour Yasmeena, Molly Hussey, Nicole Nelson, Karla Ausderau (Mentor)
The Indus Valley Script: A Corpus Compilation and Statistical Analysis of Pottery Inscriptions	Daniel Quigley, Jonathan Kenoyer (Mentor)
Western Blot: Protein Assay	Olatomiwa Coker, Sathish Kumar (Mentor)
Supporting Participation for Families with Children with Autism and Cultural Institutions	Nicole Nelson, Molly Hussey, Yasmeena Ougayour, Karla Ausderau (Mentor)

### SIFT & WINNOW

Title	Presenters and Mentors
Effects of Manganese and (p)ppGpp Homeostasis in <i>Bacillus subtilis</i>	Adam Kaufmann, Jue Wang (Mentor)
Next Generation Biofuel: Understanding Genetic Pathway of FFA Production in <i>Rhodospseudomonas Palustris</i>	Grace Li, Elizabeth Donohue (Mentor)
Exploring the Nature of Galaxies with Abundance Gradient Anomalies	Celeste Keith, Christy Tremonti (Mentor)
Characterization of Highly Conserved YvcJKL Operon in Methicillin-Resistant <i>Staphylococcus Aureus</i>	Drew Rust, JD Sauer (Mentor)
High-Order Numerical Methods for Partial Order Differential Equations	Yeltsin Jean-Pierre, Yingwei Wang (Mentor)

### TRADITIONS

Title	Presenters and Mentors
Between Bushes and Bathrooms: Sanitation in Ancient Greek Households	Yusi Liu, Nick Cahill (Mentor)
The Tools of Quantitative Ethnography	Roman Woodward, Brad Rogers, Brendan Eagan (Mentor)
Assessing Outcomes of Cystectomy Procedures	Julian Nazareth, Vania Lopez (Mentor)
Obstructive Sleep Apnea is Associated with Lower Memory Function in Middle-Aged Adults	Brittany Derynda, Barbara Bendlin (Mentor)
Characterization of Stem-Cell Derived Cardiomyocytes via Top-Down Proteomics	Hannah Karp, Wenxuan Cai, Wenxuan Cai (Mentor)

### WISCONSIN IDEA

Title	Presenters and Mentors
Simulating EmrE, a Multidrug Resistance Transporter	Grant Hussey, Katherine Henzler-Wildman (Mentor)
Field Verification of Porcine Adenovirus Assay	Tina Marie Schmansky, Terra Hawley, Zachary Tracy, Sharon Long (Mentor)
Gender Effects of a Social Belonging Intervention	Megan Kowieski, Stacy Priniski (Mentor)
Critical Period in Gestation Mediates Transgenerational Effect of Folic Acid in CNS Regeneration	Felissa Hong, Bermans Iskandar (Mentor)

### Session 3: 2–3:15 p.m.

#### AGRICULTURE A

Title	Presenters and Mentors
Ambient Formaldehyde over the United States from Ground-Based and Satellite Observations	Peidong Wang, Tracey Holloway (Mentor)
Applying Data Science Techniques to Choice-Based Conjoint Analysis	Huang Kang, Neeraj Arora (Mentor)
Bayesian Generalization in Emojis	Jacqueline Erens, Joe Austerweil (Mentor)

Investigative Journalism: Pursuit of an Accurate Truth

Luke Schaetzel, Deanne Hall (Mentor)

Interactions of Transthyretin and Retinol Binding Protein with Beta-Amyloid

Rahul Venkatesh, Regina Murphy (Mentor)

ALUMNI

Title	Presenters and Mentors
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Changes in Nitrogen Cycling during Tropical Forest Secondary Succession on Abandoned Pastures

Sanober Mirza, Erika Marin-Spiotta (Mentor)

The Role of Neurotransmitter Signaling on Traumatic Brain Injury Outcomes in *Drosophila*

Amanda Scharenbrock, David Wassarman (Mentor)

Soldiers in Stone: Legionary Recruitment in the Legio II Parthica

Tristan Krause, Marc Kleijwegt (Mentor)

Exploring the Mechanisms of Axon Regeneration in the Central Nervous System

Allison Dentice, Bermans Iskandar (Mentor)

Trophic Shifts in Wisconsin Lakes after Invasion by *Bythotrephes Longimanus* and *Dreissena Polymorpha*

Marco Scarasso, Jake Vander Zanden (Mentor)

INDUSTRY A

Title	Presenters and Mentors
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Speed of FKPP Wave on Infinite Regular Trees

Grigory Terlov, Wai-Tong Fan (Mentor)

Racial Differences in Confidence in Police: Analysis of Possible Explanations and Within Race Patterns

Amy Maniola, Pamela Oliver (Mentor)

Design for Fault Tolerant Quantum Error Correction Code

Hele Sha, Robert Joynt (Mentor)

A Closer Look at High Energy Neutrinos in IceCube

Adam Shandonay, Tianlu Yuan (Mentor)

Evidence for a Synergistic Relationship between *G. vaginalis* and *N. gonorrhoeae*

Miriam Guevara, Joseph Dillard (Mentor)

INDUSTRY B

Title	Presenters and Mentors
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Accelerating Multislice STEM Simulations through Correlation to Convolution Methods

Aidan Combs, Dane Morgan (Mentor)

Distinct Roles of Branched-Chain Amino Acids (BCAAs) in the Metabolic Response to Low-Protein Diet

Blake Miller, Dudley Lamming (Mentor)

Investigation into PAR1 Inhibition in Pancreatic Cancer

Mitchell Depke, Dustin Deming (Mentor)

Generating and Characterizing Resistance to Ionizing Radiation in Populations of *Escherichia Coli*

Joseph Trimarco, Michael Cox (Mentor)

Disagreeing with Despots: Toleration of Collective Action in China

Benjamin Rolsma, Yoshiko Herrera (Mentor)

LANDMARK A

Title	Presenters and Mentors
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Addressing Rural Poverty in America: A Case Study of Saline County, Illinois

Claire Morse, Leann Tigges (Mentor)

Using Velocity Anisotropy to Trace Magnetic Field Strength in Star Forming Molecular Gas

Alecio Madrid, Audra Hernandez (Mentor)

Accelerating Accurate Bandgap Prediction Using Machine Learning

Sam Wagner, Josh Bernson, Aditya Sharma, Donglin Wang, Dane Morgan (Mentor)

Reindeer Politics: Sami Art in Protesting Norwegian Environmental Policy

Kathryn Hendrickson Gagen, Larry Nesper (Mentor)

Differentiation of Down Syndrome Interneurons through the Use of Induced Pluripotent Stem Cells

Lindsey Amundson, Anita Bhattacharyya Consigny (Mentor)

LANDMARK B

Title	Presenters and Mentors
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Novel Epigenetic Modifying Agents Upregulate Tumor Antigen Expression in Prostate Cancer Cells

Kristin Carlson, Erika Heninger (Mentor)

Server Development for Multi-Agent Simulation with Synchrono

Dylan Hatch, Dan Negrut (Mentor)

State Policy Operatives: The Historic Development of Social Workers as Agents for the Poor in Chile

Alec Armon, Stephen Young (Mentor)

The Ivory Ring and the Revolutionary Friendship of Writers Shi Pingmei, Lu Jingqing, and Lu Yin

Alison Sharpless, Rania Huntington (Mentor)

Feeding Challenges for Children with Autism Spectrum Disorder: A National Survey

Molly Hussey, Nicole Nelson, Yasmeena Ougayour, Karla Ausderau (Mentor)

SIFT & WINNOW

Title	Presenters and Mentors
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Discrete Approximations to Stochastic Differential Equations

Yuqing Dai, Wai-Tong Fan (Mentor)

Examining Habitability of Exoplanets; Directed Evolution in Extraterrestrial Environments

Maria Kalambokidis, Eric Wilcots (Mentor)

Adult Role Models in Science (ARMS) High School Tutoring Program

Lindi London, Anna Courtier (Mentor)

Evaluation of Academic and Career Planning

Yuhe Gu, Chenli Wang, Robin Worth (Mentor)

Enhancing Tyrosine Accumulation in Arabidopsis Thaliana by Introducing Tyr-Insensitive Mutation

Yusen Men, Hiroshi Maeda (Mentor)

TRADITIONS

Title	Presenters and Mentors
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Spectroscopic Investigations of a Rare Tyrosine-Cysteine Crosslink in Mammalian Cysteine Dioxygenase

Richard Jodts, Thomas Brunold (Mentor)

Redirecting Carbon Flux to Increase Dodecanol Production in *E. coli* via Competing Pathway Knockouts

Trevor Simmons, Brian Pflieger (Mentor)

Site Specific Chemical Functionalization of scFvs through an Intein-Linked Secretion Platform

Rasika Ramanathan, Eric Shusta (Mentor)

The Institutional Reproduction of Sex in Biomedicine

Lauren Hoffarth, Sophie Romero, Madeleine Pape (Mentor)

The Effect of Dry-Period Heat Stress on Mammary mTOR Signaling

Emma Meyer, Sebastian Arriola Apelo (Mentor)

WISCONSIN IDEA

Title	Presenters and Mentors
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Developing Utility-Value Interventions to Help First-Generation College Students

Tanja Skiljevic, Judith Harackiewicz (Mentor)

Genetic Modifier Loci of Mouse Tmem 135 Mutation Identified by Quantitative Trait Locus Analysis

Jacob Otto, Akihiro Ikeda (Mentor)

On the Philosophical Potentials of Non-Cosmological Astronomy

Tianzhe Shen, Michael Titelbaum (Mentor)

Assessment of Buprenorphine Providers and Opioid-Related Hospitalizations in Rural Wisconsin

Michael Murray, Wajiha Akhtar (Mentor)



## Posters

### Session 1: 9:30–10:45 a.m.

#### VARSITY HALL

PS#	Title	Presenters and Mentors
1	AI-Driven Program Synthesis for Computer Science Education	Evan Hernandez, Jerry Zhu (Mentor)
2	Characterization of Multicellular Organoids for Disease Modeling	Hannah McBride, William Daly (Mentor)
3	Study of Children's Thinking	Mahbuba Amer, Julia Matthews (Mentor)
4	Characterizing NaK through Site-Directed Mutagenesis and Electrophysiology	Gina Luu, Katherine Henzler-Wildman (Mentor)
5	Misrepresentations: A Parental Diary Study of Children's Action Errors	Chantel Raimer, Karl Rosengren (Mentor)
6	Cross-Species Transmission: Chronic Wasting Disease of Elk and White-Tailed Deer into Deer Mice	Danielle Writz, Laura Monahan (Mentor)
7	Effects of Herbivory and Wildfire on Stability of Post-Fire Deciduous Stands in Interior Alaska	Ryan Fitzsimmons, Winslow Hansen (Mentor)
8	Fat-Shaming Internet Memes and Their Influence on Perceptions of Workplace Harassment	Sage Staples, William Cox (Mentor)
9	Mutilation Law and Physician Exclusion Protections: A Call for Regulation	Morgan Lentz, Thomas Leffler (Mentor)
10	Interfacial Reactions of N <sub>2</sub> O <sub>5</sub> with Salty Solutions	Sarah Quinn, Tom Sobyra (Mentor)
11	LPS Primed Exosomes can Educate Macrophages to Protect Mice from Lethal Irradiation	Charlie Childs, John Kink (Mentor)
12	The Effect of Non-Steroidal Anti-Inflammatory Drug Use on Neutrophil Extracellular Trap Formation	Lauren Fahmy, Miriam Shelef (Mentor)
13	Predictors of ACL Reconstruction Outcomes Nine Months After Surgery	Alexis Mashl, David Bell (Mentor)
14	Shoring Up Autocracy: Participatory Technologies and Regime Support in Putin's Russia	Sarah Kear, Hannah Chapman (Mentor)
15	Pappaa Promotes Neuronal Survival by Regulating Mitochondrial Function	Emily Daykin, Marc Wolman (Mentor)
16	Advancing Silvopasture in Wisconsin	Nicole Minerva, Diane Mayerfeld (Mentor)
17	The Study of Neurosurgery Operating Room Traffic in an Effort to Reduce Surgical Site Infections	Rachel Zenker, Maren Anderson, John Sandgren, Oguzhan Alagoz (Mentor)
18	Health and Racial Equity Evaluation	Kaitlyn Jackson, Richelle Andrae (Mentor)
19	Connecting the Dots from Coursework to Assessment and Intervention in Speech Language Pathology	Lindsay Markworth, Courtney Seidel (Mentor)
20	Impact of ASD Severity on Gesture Use in Individuals with Down Syndrome and Idiopathic ASD	Julie Brinkman, Audra Sterling (Mentor)
21	Predicting the Glass Forming Ability of Bulk Metallic Glasses Using Random Forests	Vanessa Nilsen, Michael Hibbard, Dane Morgan (Mentor)
22	The University of Wisconsin Running Injury and Recovery Index	Evan Hoffins, Evan Nelson (Mentor)
23	Mitigation of Heat Stress Injury on Potato by Targeted Calcium Supplementation	Ryan Chua, Jiwan Palta (Mentor)

PS#	TITLE	Presenters and Mentors
24	Sport Specialization Characteristics Among Youth Athletes	Joseph Albrecht, David Bell (Mentor)
25	Fine Motor and Spatial Skills in Young Children	Samuel Halama, Karl Rosengren (Mentor)
26	Cell Membrane Leakage and Tolerance to Stressors Such as Heat and Drought	Jenna Rosinski, Ramamurthy Mahalingam (Mentor)
27	Development of Broad-Spectrum Peptidomimetic Inhibitors of Paramyxoviral Fusion	Brian Ferrer, Victor Outlaw (Mentor)
28	Single-Molecule FRET Studies on Nascent Protein Folding by a Custom-Assembled Confocal Microscope	Tess Carlson, Silvia Cavagnero (Mentor)
29	The Robustness of Epistemic Network Analysis to Automated Coding Errors	Cayley Farrell, Maria Sanchez, Vanessa Wu, Brendan Eagan (Mentor)
30	Effects of Microscale Element Geometry on Aggregate Behavior of Granular Material	Nicholas Olsen, Dan Negrut (Mentor)
31	The Effects of NaCl Concentration on Antibiotic-Producing Bacteria Growth	Orli Jona, Sarah Hahn, Joshua Pultorak (Mentor)
32	The Impact of Background Television on Children's Playing Behavior	Claire Wang, Daisy Mejia, Heather Kirkorian (Mentor)
33	Coding News Stories About Black Protests 1994–2010	Chelsea Hylton, Pamela Oliver (Mentor)
34	Development of Arm-Length Measurement Methodology in Children in Antigua, Guatemala	Kelly Siverhus, Devika Suri (Mentor)
35	Investigating the Role of HP1 in Embryonic Stem Cell Differentiation	Nikita Patel, Zafirah Zaidan (Mentor)
36	Using Genome Editing to Prevent Immune Rejection of hESC-Derived Islets	Marina Ignatowski, Sara Sackett (Mentor)
37	The Benefit of the Spacing Effect in Children's Science Learning	Ellen Weber, Sophia Africano, Megan Kaul, Jenna Langmeir, Haley Vlach (Mentor)
38	Long-Lasting Neuroplasticity in Spinal Respiratory Motor Output is Induced by Adenosine 2A Receptor	Ranveer Vasdev, Stephen Johnson (Mentor)
39	Effects of Maternal Trauma and Major Depression on the Neural Networks of Their Offspring	Kyrie Sellnow, Josh Cisler (Mentor)
40	Immunotherapy of 9464D+GD2/3 Neuroblastoma	Kayla Rasmussen, Amy Gurel (Mentor)
41	How Students Correct Themselves When Prompted to Draw in Chemistry	Zainab Manzoor, Sally Wu (Mentor)
42	Probing Conformational Motions Underlying Anesthetic Drug Actions in a Ligand-Gated Ion Channel	Sritejasvinithi Karimikonda, Cynthia Czajkowski (Mentor)
43	A Late Holocene 10Be Based Glacial Chronology for the Beartooth Mountains, Southwestern Montana	Claire Vavrus, Shaun Marcott (Mentor)
44	Characterization of the Effects of TraR on the F-Element's Transfer Region Promoters in <i>E. coli</i>	Madeline Akbari, Richard Gourse (Mentor)
45	Negative Impacts of Invasive Zebra Mussels on Native Mussels: Madison Lakes' Next Extirpation?	Alyssa Ginther, Vince Butitta (Mentor)
46	Perceived Social Support in Parents of Children with Autism	Hailey Boyer, Sigan Hartley (Mentor)
47	High-Resolution Analysis of Cav3, Nav1.5, Kir2.1 Protein Associations in a Macromolecular Complex	Elise McCune, Lee Eckhardt (Mentor)



PS#	TITLE	Presenters and Mentors
48	Induction and Screen of Maternal Effect Mutations in Zebrafish	Clara Garcia, Francisco Pelegri (Mentor)
49	Effect of Small Mammal Community on Pathogen Prevalence in Nymphal Ixodes scapularis	Shelby Ballweg, Ryan Larson (Mentor)
50	A Route to Eflornithine Analogs via Oxidative Allene Amination	Lucas Oxtoby, Jennifer Schomaker (Mentor)
51	Early Transplantation into a Vesicostomy & Methods of Pyelonephritis Detection	Ebenezer Ojo, Thomas Leffler (Mentor)
52	How Drawing Prompts Can Help Students Enhance Their Drawing of Visual Representations in Chemistry	Roman Fabry, Sally Wu (Mentor)
53	Stitching Together Social, Environmental, and Economic Sustainability in Rural Costa Rica	Brooke Nelson, Anna Ostermeier, Kyle Powers, Cathy Middlecamp (Mentor)
54	Oxidative Potential of Ambient and Household PM2.5 Sources in Rural China	Collin Brehmer, James Schauer (Mentor)
55	Transcriptional Control of Kir6.2 by Cyclin-Dependent Kinase 2	Kara Mortensen, Matthew Merrins (Mentor)
56	Utilizing Instagram for Social Media Promotion	Maggie Bushman, Megan Moreno (Mentor)
57	The Impact of Opioid-Treated Chronic Low Back Pain	Arielle Mora Hurtado, Aleksandra Zgierska (Mentor)
58	Using Environmental Variables to Improve Genomic Predictions in Oats	Syedda Simmons, Lucia Gutierrez Chacon (Mentor)
59	The Development of the University of Wisconsin Running Injury & Recovery Index	Meaghan Holub, Evan Nelson (Mentor)
60	Hydrological Impacts of Agricultural Land Management & Precipitation Trends in the Driftless Region	Josh Bendorf, Christopher Kucharik (Mentor)
61	Studying Arginine and Lysine's Effect on the Coiled Coil System with a Fluorine Tag	Alexander Passow, Naomi Biok (Mentor)
62	Nitrification in Micro Aerobic Communities	Rahim Ansari, Pamela Camejo Medranda (Mentor)
63	When Will New Hires Collaborate?	Vineeth Suresh, Thomas Ngo (Mentor)
64	An Assessment of Medication-Assisted Opioid Treatment Providers in Wisconsin	Rita Simpson, Ryan Westergaard (Mentor)
65	Compartmentalized Regulation of Subcellular Calcium Signaling and Its Impact on Atrial Arrhythmogens	Aleah Warden, Alexey Glukhov (Mentor)
66	Attitude and Knowledge of Personal Finance Concepts of College Undergraduates	Uriel Lee, Linda Francetic Lepe (Mentor)
67	Functional Diversification of the ESCRT-III Related Gene ISTL8 in <i>Arabidopsis Thaliana</i>	Isaac Dopp, Kaija Goodman (Mentor)
68	Kinetic Inductance Detectors for Future Missions to Observe the Cosmic Microwave Background	Ryan LeFebre, Tylor Adkins, Peter Timbie (Mentor)
69	Policies Surrounding Father Involvement in Children's Education	Paige Fisher, Janean Dilworth-Bart (Mentor)
70	Perceptual Segmentation of Overlapping Visual Stimuli Based on Motion Speed	Emily Ausloos, Xin Huang (Mentor)
71	Effects of In Vitro Ischemic Conditions on Cell Cycle Regulating Gene Expression in Neuronal Cells	Hunter Batjer, Uma Wesley (Mentor)
72	The Role of TET2 Hydroxymethylation in Folate-Enhanced Spinal Axon Repair	Bridget Barnes, Bermans Iskandar (Mentor)
73	Exploratory Decision-Making in Early Adolescence	Anna Grassy, Seth Pollak (Mentor)

PS#	TITLE	Presenters and Mentors
74	Hip-Hop through the Lens of the Madison News Media	Aiyana Groh, Iffat Bhuiyan, Jen Holland, Mari Verbeten, Randy Stoecker (Mentor)
75	Developing a Mouse Model of Pancreatic Cancer	Hope Beyer, Gopal Iyer (Mentor)
76	Creation of PAX6D Inducible Cell Line with CRISPR/Cas9	Brianna Hoffmann, Yunlong Tao (Mentor)
77	Watching Sports and Its Association with Varying Emotional Response Styles	Jason Oliva, Lauren Gresham (Mentor)
78	Effect of Lake-Peat State Shift on Carbon Accumulation Rates in Northern WI Kettle Lake Ecosystems	Matthew Mirkes, Sara Hotchkiss (Mentor)
79	Save the World by Discovering New Asteroids	Mikihisa Yuasa, Ralf Kotulla (Mentor)
80	Tracing the Development of the Nervous System in Arachnids with Fluorescent Antibodies	Paula Thuo, Prashant Sharma (Mentor)
81	Community-Based Participatory Research (CBPR) to Understand Latinx Mental Health	Ananya Heroor, Larissa Duncan (Mentor)
82	Detection of Lipo-Chitooligosaccharides in Yeasts	Sam Ahler, Tomas Rush (Mentor)
83	Development of a Cardiac Module for eSchoolcare, an Online Resource for School Nurses	Shane Hoffman, Lori Anderson (Mentor)
84	Strategies to Improve Germination Success in the Endangered Prairie Bush Clover ( <i>L. leptostachya</i> )	Anushri Kartik-Narayan, Brandon Bruce, Olympia Mathiaparanam, Michelle Harris (Mentor)
85	Utility Value: Increasing Academic Achievement in First Generation and Minority Students	Cynthia Smith, Stacy Priniski (Mentor)
86	Automated Coding Methods in Transactive Discourse	Melanie Rogers, Drew Huang, Brendan Eagan (Mentor)
87	Preliminary Analysis of Intimate Partner Violence and Relationships of Migrant Women in Thailand	Kate Giguere, Stephanie Koning (Mentor)
88	Sex Bias in Extracellular Matrix Growth Factor Production	Gabriela Betancourt, Kristyn Masters (Mentor)
89	Long QT2 IPSC Model	Abbie Joyce, Li Feng (Mentor)
90	Examining Flowering Times of Native Plants in the Biocore Prairie	Alder Levin, Seth Mcgee (Mentor)
91	Elucidating the Role of Regulatory Components of Intrinsic Termination in <i>E. coli</i>	Margaret Liu, Rachel Mooney (Mentor)
92	Pericyte Phenoconversion in Response to TGF-Beta and CXCL-12	Steven Oakes, Chad Vezina (Mentor)
93	Identification of Lipid-Producing Streptomyces Strains	Josh Daniels, Charlotte Francoeur (Mentor)
94	Simulations for the MiniCLEAN Dark Matter Detector	Hanshu Zhang, Nicholas Decheine, Kimberly Palladino (Mentor)
95	Mitochondria Adaptation Between Crosstalk Proteins in the Secretory Pathway	Nick Robinson, Luigi Puglielli (Mentor)
96	Brooding as an Intermediate Step Between Childhood Anxiety and Adolescent Depression	Daniella Greenfield, Hill Goldsmith (Mentor)
97	The Relation Between Children's Recognition of Emotion and Social Power Cues	Jean C Molina Gonzalez, Kristin Shutts (Mentor)
98	Recipe 4 Success	Jessica Gomez, Robert Nix (Mentor)

Continued on next page

## Posters *continued*

PS#	TITLE	Presenters and Mentors
99	Linking Clinical, Neural, and Perceptual Measures of Glaucoma	Nathaniel Miller, Bas Rokers (Mentor)
100	Clinical Phenotypes and Intergenerational Expansions of Family Members with FMR1 CGG Expansions	Elizabeth Below, Marsha Mailick (Mentor)

### Session 2: 11:00 a.m.–12:15 p.m.

#### VARSITY HALL

PS#	Title	Presenters and Mentors
101	Sex Differences in the Effects of Childhood Physical Abuse on Alexithymia in Psychopathic Offenders	Radha Kanchana Karthik, Michael Koenigs (Mentor)
102	Cranial Sensorimotor Deficits with Increased Alpha-Synuclein in Peripheral Muscles in Pink1 $-/-$ Rats	Adileen Sii, Cynthia Kelm-Nelson (Mentor)
103	PLA2G16 as a Biomarker in Prostate Cancer Detection	Adam Schultz, David Jarrard (Mentor)
104	Förster Resonance Energy Transfer for Chemical Ecosystem Selection Experiments on the Origin of Life	Jacob Yourich, David Baum (Mentor)
105	Music and Language: Can Song Help Infants Learn the Meanings of Novel Words?	Michaela McCabe, Jenny Saffran (Mentor)
106	Transformation of MnO <sub>2</sub> during BPA Oxidation Over Repeated Exposure	Gabrielle Campagnola, Christina Remucal (Mentor)
108	Assessing the Environmental and Economic Implications of Ground Granulated Blast-Furnace Slag	Tyler Klink, Angela Pakes Ahlman (Mentor)
109	The Effect of School District Curriculum on Child Executive Function in Madison Area	Johanna Ellefson, Alison Fieldbinder, Edward Hubbard (Mentor)
110	Issue Salience in Political Television Advertising in Wisconsin during the 2016 Presidential Election	Ross Dahlke, Michael Wagner (Mentor)
111	Rhetoric of Threaded Interface & Counterpublics in Online Spaces	Lillie Levin, Robert Asen (Mentor)
112	Relationship of Genetic Polymorphisms in GST-pi and Lymphoma in Boxer Dogs	Brianna Lynch, Joanne Ekena (Mentor)
113	Exploring Altered Blood Brain Barrier Endocytosis during Infection	Olivia Bee, Eric Shusta (Mentor)
114	In Utero and Lactational Dioxin Exposure May Alter Innervation of Mouse Prostate	Tyler Didier, Anne Turco (Mentor)
115	Effects of 2,4-D Herbicide DMA4@IVM on Embryonic Development of Yellow Perch ( <i>Perca flavescens</i> )	Eric Herbert, Gavin Dehnert (Mentor)
116	The Effect of Bilingualism on Sign Language Acquisition	Lihanzhi Jiang, Margarita Kaushanskaya (Mentor)
117	Characterization of Major Histocompatibility Complex Haplotypes in Indonesian Cynomolgus Macaques	Cecilia Shortreed, David O'Connor (Mentor)
118	The Changes in Host-Microbe Metabolome during Hibernation	Madelyn Falk, Fariba Assadi-Porter (Mentor)
119	Cell Developmental Age and Rosette Formation in hPSC-Derived Photoreceptor Transplants	Alexander Pitts, Allison Ludwig (Mentor)
120	Neuronal Cell Protection by Galectin 3 under Ischemic Conditions	Jacob Jaeger, Uma Wesley (Mentor)
121	Fluorescence Kinetic Studies of DNA Unwrapping in Transcription Initiation and Dissociation	Katelyn Callies, M. Thomas Record (Mentor)

PS#	TITLE	Presenters and Mentors
122	Influence of Tool Surface Texture on Friction Stir Welding	Allison McDougal, Frank Pfefferkorn (Mentor)
123	An Exploration of the Correlation Between Fiction Exposure and Theory of Mind	Natalie Ghaffari-Nikou, Maryellen MacDonald (Mentor)
124	Looking for Protective Factors in Preterm Infants	Yan Zhu, Julie Poehlmann-Tynan (Mentor)
125	Characterization of Stem-Cell Derived Cardiomyocytes via Top-Down Proteomics	Hannah Karp, Ying Ge (Mentor)
126	Controlling for Speaker Variability within a Speech Stimuli Database	Molly Beier, Ellen Peng (Mentor)
127	A Packed Bed Reactor for Chemical Ecosystem Selection Experiments on the Origins of Life	Alex Plum, David Baum (Mentor)
128	The Genetic Architecture of Various Domestication Traits in Maize-Teosinte Hybrid Populations	Bailey Spiegelberg, Alessandra York (Mentor)
129	Long-Term Effects of Childhood Sexual Abuse on Emotion Recognition in Male Offenders	Arielle Mitchell, Michael Koenigs (Mentor)
130	Exploring the Surprising Multifaceted Nature of a Protein Native State	Andrew Wittman, Silvia Cavagnero (Mentor)
131	The Highs & Hurts of Heroin: Public Attitudes and Spatial Consequences for Treatment	Anna Ostermeier, Caitin Hartnett, Michelle Johnson, William Gartner (Mentor)
132	Testing Effect: Do Children Benefit from Retrieval Testing in Storybooks?	Sarah Weber, Haley Vlach (Mentor)
133	Improvement of Toughness of Polymeric Matrix Composites Using Additively Manufactured Reinforcements	Matthew Milostan, Pavana Prabhakar (Mentor)
134	Quantitative Trait Locus (QTL) Mapping of Inflorescence Traits in Maize-Teosinte Hybrid Populations	Samuel Lawton, Alessandra York (Mentor)
135	African American Protests in Newspapers 1994–2010	Jason Tajamaro-Arroyo, Pamela Oliver (Mentor)
136	Prenatal Maternal Mental Health and Early Childhood Temperament	Zachary Wallace, Julia Porter, William Wooten (Mentor)
137	Thermal and Electrical Finite Element Modeling for the Optimization of Electrochemical Experiments	Jake Quincey, Adrien Couet (Mentor)
138	Investigating the Impact of Oxidative Stress on Age-Related Retinal Phenotypes and Neurodegeneration	Nathan Gruenke, Erica Macke (Mentor)
139	Improvements to the WebMADS Data Quality Monitoring System for Atmospheric Remote Sensing	Matthew Westphal, Jonathan Gero (Mentor)
140	Determining and Visualizing the Validity of Atmospheric Remote Sensing Data	Alexander Diebold, Jonathan Gero (Mentor)
141	Investigation of the Structure-Function Relationship of <i>B. subtilis</i> SSB Monomer Interfaces	Thanh Phuong Nguyen, Katarzyna Dubiel (Mentor)
142	Hypoxia-Induced MicroRNAs Correlate with Changes in Histone Methylation in Microglia	Anna Janke, Jyoti Watters (Mentor)
143	Effects of Nitrogen Fertilization on Tropical Forest Soil pH	Diana Tapia, Elliot Vaughan (Mentor)
144	Measuring the Vocal Tract Using MRI and Acoustic Pharyngometry: A Comparison	Abigail Lamers, Hourii Vorperian (Mentor)
145	Population Genetics for a Haploid Model with Multivariate Multinomial Distribution	Congfang Huang, Wai-Tong Fan (Mentor)
146	B Cell Activating Factor as a Biomarker in Canine Inflammatory Bowel Disease	Dahlia Tesfamichael, Jessica Pritchard (Mentor)

PS#	TITLE	Presenters and Mentors
147	Effects of ASD Diagnosis and Gender on Parental Attributions of Positive Child Behavior	Helen Rottier, Sigan Hartley (Mentor)
148	Investigating the Regulation of ER $\alpha$ through Bortezomib-Mediated Repression of ESR1 Locus	Ola Shana, Elaine Alarid (Mentor)
149	Analysis of Stimulatory Factors that Drive Development of Neutrophil-Dendritic Cells	Michael Gui, Bruce Klein (Mentor)
151	Supporting Maternal and Child Health through Obesity-Prevention Strategies	Jaylina Karmacharya, Amy Hilgendorf (Mentor)
152	Optimizing the Transplantation of hPSC-Derived Beta Cells by Pre-Vascularization of Site	Vansh Jain, Aida Rodriguez, Daniel Tremmel, Sara Sackett (Mentor)
153	Using Bio-electrode Impedance Analysis to Detect Fluid Overflow in Healthy Women in Guatemala	Isabelle Gallagher, Devika Suri (Mentor)
154	Estimating the Phosphorus Budget of the Lake Mendota Watershed 1992–2012	Kayla Edwards, Eric Booth (Mentor)
155	Identification of Protein Interactions Involved in Positive-Strand RNA Virus Replication	Jessica Thornton, Paul Ahlquist (Mentor)
156	Effects of Diabetes on Psychophysiological Measures of Reactivity and Recovery To Negative Stimuli	Natalie Villegas, Lauren Gresham (Mentor)
157	Freshmen's Finstas: Do They Help or Hinder the High School Adjustment?	Molly Doerrer, Leslie Aguirre, Bradford Brown (Mentor)
158	Age Related Changes in Middle Cerebral Artery Pulsatility Index	Samuel Gallo, Jill Barnes (Mentor)
159	Chinese Semantics Study	Madison Barker, Mark Seidenberg (Mentor)
160	Cold Tolerance Adaptations in the Eastern Subterranean Termite, <i>Reticulitermes flavipes</i>	Avery Kuhlow, Sean Schoville (Mentor)
161	Investigating the Effects of Epigenetic Modifying Agents on Immunogenicity in Prostate Cancer	Madison Kircher, Joshua Lang (Mentor)
162	Visualizing the Nuclear Notch Intracellular Domain in Germline Stem Cells	Sindhuja Battula, Sarah Crittenden (Mentor)
163	Implicit Negative Attention Bias Predicts Brain White Matter Microstructure in Adolescents	Annika Myers, Hill Goldsmith (Mentor)
164	The Effects of Phenylephrine, Tropicamide, and Tetracaine on Optokinetic Tracking in the S334ter Rat	Karina Schmidt, Allison Ludwig (Mentor)
165	Predicting Non-Medical Prescription Drug Use Among College Students	Reese Hyzer, Megan Moreno (Mentor)
166	Maternal Cortisol Trajectories and Infant Startle	Kaylin Langer, Hill Goldsmith (Mentor)
167	Associations of Infant Brain and Gut Microbiome	Alysha Rameshk, Douglas Dean III (Mentor)
168	Influence of Laser Structuring on Friction Stir Tools	Mory Keita, Frank Pfefferkorn (Mentor)
169	Behavioral Testing of Reward Disruption in the Pink1 -/- Rat Model of Parkinson Disease	Jacob Welsch, Cynthia Kelm-Nelson (Mentor)
170	Understanding Cultural Meanings of Colors and Emotions in Hmong Population	Tshachee Lee, Maichou Lor (Mentor)
171	Harvestmen in the Philippines (Arachnida: Opiliones)	Stephanie Schmidt, Prashant Sharma (Mentor)
172	Incidents of the 2016 Election	Joie Ross, Barry Burden (Mentor)

PS#	TITLE	Presenters and Mentors
173	Speech Rate and Intelligibility of School-Age Children with Cerebral Palsy	Meredith Braza, Katie Hustad (Mentor)
174	Impacts of Climate Change on the Growth of a Liana ( <i>Vitis riparia</i> ) and Host Tree ( <i>Quercus alba</i> )	Audrey Spiegelhoff, Laura Ladwig (Mentor)
175	Refining Convective Classification Thresholds	Tobiah Steckel, Tristan L'ecuyer (Mentor)
176	Identifying Potential Risk Factors of Childhood Obesity through Age Six	James Gannon, Pamela Kling (Mentor)
177	The Common Symbiosis Pathway is Required for <i>Ectomycorrhizal</i> Fungi to Colonize Poplar Trees	Jonathan Setzke, Kevin Cope (Mentor)
178	The Changing Nature of Education Loan Debt and Debt Behaviors in Young Adult Households	Josiah Locke, Fenaba Addo (Mentor)
179	Quality Improvement: Culturally Congruent Nursing Care for Transgender Patients	Yaning Yang, Anne Ersig (Mentor)
180	A Low-Cost Platform for Resistive Memory Characterization	Maxwell Strange, Jane Li (Mentor)
181	Developmentally Appropriate Explanations on Incarceration to Children with Jailed Parents	Brooke Hanson, Julie Poehlmann-Tynan (Mentor)
182	Fungal Colonization of Prairie Grasses: Does It Vary among Species in Remnant and Restored Sites?	Morganne Boppel, Laura Ladwig (Mentor)
183	Overlaps in Fish Diet Structure in Two Northern Temperate Lakes	Matthew Chotlos, Jake Vander Zanden (Mentor)
184	Decline in Movement during Adulthood: Can It Be a Biomarker of Impending Illness or Disease?	Lindsey Waite, Joseph Kemnitz (Mentor)
185	The Role of Kisspeptin in the Differentiation of Neural Progenitor Stem Cells	William Lundeen, Ei Terasawa-Grilley (Mentor)
186	Long-Term Cellular Rescue Effects of Nutlin-3 in a Mouse Model of Fragile X Syndrome	Jessica Miller, Xinyu Zhao (Mentor)
187	Quantifying Silencing of Estrogen Receptor Alpha Expression in the Hypothalamus of Female Marmosets	Hannah Yohnk, David Abbott (Mentor)
188	Ontogenetic Relationship of Leaf Area and Total Biomass Allocation for 8 Herbaceous Prairie Species	Genevieve Anderegg, Jonathan Henn (Mentor)
189	Microstructure and Formation of Ooids	Matthew Frazier, Pupa Gilbert (Mentor)
190	Seeing the Forest for the Trees: How Canopy Tree Species Gradients Affect Tree Seedling Recruitment	Kyle Watter, Laura Ladwig (Mentor)
191	The Influence of Parent Scaffolding on Child Self Regulation Skills	Nan Inmong Yang, Robert Nix (Mentor)
192	Revisions of an Educational Technology with Multiple Visual Representations to Enhance STEM Learning	Joziyah Mays, Miranda Zahn (Mentor)
193	The Thermal Tolerance of Ice Crawler Species	Kelly Thao, Sean Schoville (Mentor)
194	Wild YEAST (Yeast Exploration and Analysis Science Team) Program	Napoleon Nosker, Dana Opulente (Mentor)
195	The Effect of Phosphorus Remediation Methods on Bacterial Communities in Lead (Pb) Contaminated Soil	Kristin McAAdow, Douglas Soldat (Mentor)
196	Quantifying Soil Gravel Content using Image Analysis	Richard Lee, Alfred Hartemink (Mentor)
197	Using Simulations to Improve Radio Telescope Design for 21 cm Tomography	Kevin Gayley, Celeste Keith, Peter Timbie (Mentor)

Continued on next page

## Posters *continued*

PS#	TITLE	Presenters and Mentors
198	Interface between Bicaudal-C and RNA	Sonam Dolma, Michael Sheets (Mentor)
199	Regional Dimensions of the Brexit Vote	Elm Stephenson, Yoshiko Herrera (Mentor)
200	Mechanism for Hyperpolarization Activation in the sPHCN Ion Channel	Alexander Blair, Baron Chanda (Mentor)

### Session 3: 2–3:15 p.m.

#### VARSITY HALL

PS#	Title	Presenters and Mentors
201	Applying Machine Learning Algorithms to Analyze Display-Advertising Response	Vanessa Alwan, Paul Hoban (Mentor)
202	The Hidden Connections and the Causes of Alzheimer Disease	Jiaxuan Zhao, Boyang Tang, Zhengjun Zhang (Mentor)
203	The Estimation of Clade-Splitting Probabilities to Improve Importance Sampling of Phylogenetic Tree	Xuan Zhang, Bret Larget (Mentor)
204	Clustering Politically Active Twitter with VariMax	Emma Krauska, Karl Rohe (Mentor)
205	Large-Scale Automatic Classification of Online Advertisements	Kou Colin, Garvesh Raskutti (Mentor)
206	Using Transfer Learning to Classify Breast Cancer Cells with Fluorescence Imaging	Zijie (Jay) Wang, Tiffany Heaster, Yin Quan, Melissa Skala, Alexandra Walsh, Anthony Gitter (Mentor)
207	Role of AF9 in Somatic Cell Reprogramming	Edwin Neumann, Coral Wille (Mentor)
208	FRET & PIFE Indicate Promoter DNA Interacts With RNA Polymerase to Facilitate Open Complex Formation	Christina McNerney, M Thomas Record (Mentor)
209	Development of NICKAL2 Detector for Absolute Measurement of Al Line Radiation on MST	Nick Lauersdorf, Abdulgader Almagri, Daniel Den Hartog, Paolo Franz, John Goetz, Lisa Reusch, Patrick Vanmeter, Lisa Reusch (Mentor)
210	Children's Learning from Interactive eBooks: Relevant vs. Distracting Features	Mary Pulvermacher, Madeline Kreis, Heather Kirkorian (Mentor)
211	Exploring Surgery Residents' Self-Regulated Learning Processes in an Online Environment	Gabrielle Every, Sarah Sullivan (Mentor)
212	Essentialist Views on Mental Illness: Effects on Stigma and Perceived Treatment Efficacy	Danielle Peters, Karl Rosengren (Mentor)
213	Predicting the Antifungal Activity of Alpha/Beta-Peptides Against <i>C. albicans</i> Using SVM Regression	Nathan Wang, Sean Palecek (Mentor)
214	Parent-Child Interactions and Behavioral Variability Among Children with and without ADHD	Karly Rosinsky, James Li (Mentor)
215	The Reduction of Catheter Associated Urinary Tract Infections through a Multidisciplinary Approach	Hannah Wildermuth, Thomas Leffler (Mentor)
216	Association of Multiple TLR6-TLR1-TLR10 SNPs with Preterm Birth Suggests Evolutionary Bias	Caitlin Hoffman, Wenxiang Luo (Mentor)
217	Prodromal Anxiety in the Pink1 -/- Rat Model of Parkinson's Disease	Natalie Pahapill, Cynthia Kelm-Nelson (Mentor)
218	Gait Parameters in Walking Tasks in Early-Stage Parkinson's Disease	Christine Samuelsen, Corinne Jones (Mentor)
219	Hydrogen Emission in the Earth's Upper Atmosphere	Arianna Ranabhat, Susan Nossal (Mentor)

PS#	TITLE	Presenters and Mentors
220	Epithelial Quantitation of Histologically Normal Prostate Biopsies Predicts Presence of Cancer	Adam Schultz, David Jarrard (Mentor)
221	Outcome Expectancy's Influence on Results Following a Symptom Management Intervention for Cancer	Michael Gonzales, Kristine Kwekkeboom (Mentor)
222	Robotically Assisted Sonic Therapy (RAST) for Non-Invasive Renal Ablation in a Live Porcine Model	Emily Knott, Timothy Ziemlewicz (Mentor)
223	Safeguarding Children: Measuring the Impact of Witnessing Parental Arrest	Anisa Yudawanti, Julie Poehlmann-Tynan (Mentor)
224	Examining Virtual Reality: Real-World or Entertainment Media?	Kyle Barron, C. Shawn Green (Mentor)
225	Isolating Brettanomyces Yeast to Better Understand Its Implications on Industrial Fermentation	Caroline Miller, Chris Hittinger (Mentor)
226	Investigating the Specificity of Histone Demethylases	Simone Shen, Rupa Sridharan (Mentor)
227	Evaluating PD-L1 Expression through Fluorescence Microscopy	Camila Hernandez, Jennifer Schehr (Mentor)
228	Spatial or Skills Mismatch? An Investigation of the Barriers to Job Accessibility in Omaha, NE	Mari Verbeten, Gary Green (Mentor)
229	The Relationship between Cell Membrane Leakage and Stress Tolerance in Barley	Brandon Lam, Ramamurthy Mahalingam (Mentor)
230	Representing Fluid Dynamics as a Rigid-Body Dynamics Problem with Friction and Contact	Conlain Kelly, Dan Negrut (Mentor)
231	Castration Reduces Duration and Increases Frequency of Urination	Helen Zhang, Hannah Ruetten (Mentor)
232	The Effects of Short-Term Methionine Deprivation on Metabolic Health in Mice	Shany Yang, Dudley Lamming (Mentor)
233	Analysis of Tumor Survival Response to Nutrient Deprivation in a Microfluidic Model	Shujah Rehman, Melissa Skala (Mentor)
234	That Damn Dam: Evaluating the La Farge Dam Controversy	David Weinberg, Caroline Druschke (Mentor)
235	Cosmic Ray Production in Coma Galaxy Cluster	Molly Hetzel, Joshua Wiener (Mentor)
236	Determining the Role of Annexin A6 in Cell Membrane Repair	Jenny Day, William Bement (Mentor)
237	Adolescent Children Born Preterm Have Altered Aortic Pulse Wave Velocities at Rest	Melissa Brix, Marlowe Eldridge (Mentor)
238	Quantifying Pancreatic Lipid Content: Correlation with Markers Used in Assessing Transplantability	Austin Feeney, Sara Sackett (Mentor)
239	Generation of Gene-Edited Human Pluripotent Stem Cell (hPSC) Lines for Studying FMRP Functions	Molly Parries, Xinyu Zhao (Mentor)
240	Effects of Particulate Organic Matter on Metabolic Activity of Riverbed Sediment Microbes	Anthony Allison, Matthew Ginder-Vogel (Mentor)
241	A Laser-Based Method for Measuring Wall-Vapor Interface Temperature	Mari McPheron, Gregory Nellis (Mentor)
242	Modeling the Effects of Interseeded and Conventional Corn-Alfalfa Rotations on Soil Erosion	Ashley McGoey, William Osterholz (Mentor)
243	Fine Mapping Domestication Gene(s) Responsible for Phenotypic Expression of Multiple Traits in Maize	Kyle Krueger, John Doebley (Mentor)
244	PGFM Profiles in the Second Month (d 39-53) of Bovine Pregnancy	Caleb Hamm, Milo Wiltbank (Mentor)

PS#	TITLE	Presenters and Mentors
245	How do Children's Ideas about Science Relate to Their Science Knowledge and Vocabulary?	Sarah Langer, Taylor Dworak, Natalie Jacobson, Haley Vlach (Mentor)
246	Influence of the Microbial Community on Corn and Soybean Plants Under Greenhouse Conditions	Winnie Moy, Marian Lund (Mentor)
247	Characterization of Burkholderia Strains from Fungus Gardens of Fungus Farming Ants	Laura Williams, Charlotte Francoeur (Mentor)
248	Informatics Skunkworks: Perovskite Stability	Ebenezer Fanibi, Benjamin Afflerbach (Mentor)
249	The Role of Amino Acids on Mammary Signaling and Milk Protein Synthesis	Madison Kurth, Sebastian Arriola Apelo (Mentor)
250	Reducing Spinal Cord Injury-Induced Neuropathic Pain with Folic Acid	Sydney Sauer, Gurwattan Miranpuri (Mentor)
251	Effect of Cluster Size on Stem Cell-Derived Islet-Like Cluster (ILC) Gene Expression and Function	Andrew Curran, Sara Sackett (Mentor)
252	Intranasal Delivery of Antibodies Bypasses the Blood-Brain Barrier and Achieves High CNS Levels	Sam Boroumand, Robert Thorne (Mentor)
253	Site-Specific Photocrosslinking of PiIB to Proteins within the Type IV Pilus Apparatus	Paula Atsaves, Katrina Forest (Mentor)
254	Cloning Antibody Variable Fragments for Isolating Monoclonal Antibodies	Tighe Christopher, Matt Reynolds (Mentor)
255	Reactivity of the Internal Carotid Artery to Hypercapnia in Healthy Adults	Emily Hartwig, Jill Barnes (Mentor)
256	How Students' Perceived Artistic Skills Relate to Their Understanding of How to Draw an Atom	Krista Washechek, Sally Wu (Mentor)
257	The Role of Hepatic Rictor on Energy Metabolism	Amy Lin, Sebastian Arriola Apelo (Mentor)
258	Racial Differences in Early Childhood Blood Lead and Adult Involvement in the Wisconsin Court System	Chantel Browne, Nicole Thomas, Janean Dilworth-Bart (Mentor)
259	Effects of Management Strategies on Microbial Communities in Wisconsin Potato Fields	Alissa Erickson, Richard Lankau (Mentor)
260	Interlocking Micro-Architecture Design for Polymers	Amaya Munoz, Pavana Prabhakar (Mentor)
261	Analysis of the Rotational Spectrum of Chloropyrazine and Its Isotopologues	Phoenix Higgins, Brian Esselman (Mentor)
262	Positive Experiences among Parents of Children with Autism Spectrum Disorder	Myxee Thao, Sigan Hartley (Mentor)
263	Synthesis and Characterization of a Cationic Homopolymer Active against <i>Clostridium difficile</i>	Casey Ritts, Leslie Rank (Mentor)
264	Workflow Disruptions during Pediatric Procedural Sedation: A Quantitative and Qualitative Assessment	Cathy Tran, Gregory Hollman (Mentor)
265	Convergence of Protein Net Charge and Nonpolar Content at High Molecular Mass	Susanna Yaeger-Weiss, Silvia Cavagnero (Mentor)
266	Investigating the Effects of Cotranslational Aggregation on Protein Folding via FRET	Alexios Staikos, Silvia Cavagnero (Mentor)
267	Localized STEM Learning with LEM	Jonathan Erbe, Brendan Eagan (Mentor)
268	African Americans Fighting Alzheimer's in Midlife	Emma McKeel, Carey Gleason (Mentor)

PS#	TITLE	Presenters and Mentors
269	Text Mining Unconscious Bias in Scientific Peer Review	Skylyn Worzalla, Anna Kaatz (Mentor)
270	Synthesis and Isolation of 1-Cyano-2,3-Butadiene, a Novel Compound	Danny Lee, Samuel Koungias (Mentor)
271	Lithic Artifacts and Shifting Economies in Epiclassic Mexico: A Study of Obsidian Use at Chicoloapan	Emily Eichstedt-Anderson, Sarah Clayton (Mentor)
272	Aromatase Expression in Neurons and Glial Cells of the Monkey Hypothalamus	Molly Pappin, Ei Terasawa-Grilley (Mentor)
273	Patient-Provider Communication: Identifying Patterns in How Patients Introduce Concerns	Emily LeSage, Elizabeth Stephens, Kristen Pecanac (Mentor)
274	Social Categories Impact Infants' Trust	Kudirat Alimi, Rachel King (Mentor)
275	DNA Methylation in Palate Development and Cleft Palate Pathogenesis	Caden Ulschmid, Robert Lipinski (Mentor)
276	Oxytocin Induces Sex-Specific Changes in Territorial Defense by Pair-Bonded California Mice	Juliette Schefelker, Catherine Marler (Mentor)
277	Post-Disaster Convergence on Twitter	Ting An Lai, Megan Moreno (Mentor)
278	Gender Differences in End-of-Life Cancer Blogs Written by AYAs	Sophia Schmidt, Megan Moreno (Mentor)
279	Autonomous Platform for Protein Design	Bennett Bremer, Philip Romero (Mentor)
280	Role of Brain Estrogen Receptor Alpha on Menstrual Cyclicity in Female Rhesus Monkeys	Siri Peterson, David Abbott (Mentor)
281	A Slow Cooked Solution? Crockpots as a Tool for Building Food Agency in Low-Income Communities	Lauren Jorgensen, Lauren Jorgensen, Sophia Lawrence, Claire Barrett (Mentor)
282	Dealing with 'Drama': High School Freshmen's Involvement with Peer Tensions Online	Ashley Prudhom, Bradford Brown (Mentor)
283	Examining Mutual Exclusivity with Multiple Alternative Categories in Preschool Children and Adults	Rebecca Kish, Haley Vlach (Mentor)
284	Investigating Receptor Dynamics in Cell Signaling using Baker's Yeast	Madeleine Blazel, Anna Kosmach, Claudia Schmitt, Michelle Harris (Mentor)
285	Understanding a Regulatory Network Governing Spore Development and Metabolism in <i>Aspergillus</i> Fungi	Ethan Boynton, Jae-Hyuk Yu (Mentor)
286	Impacts of Genotype, Environment, and GxE Interactions on Stand Productivity in a Woody Biofuel Crop	Jen Proud, Olivia Cope (Mentor)
287	Males' Childhood Family Experiences and Risk for Alcohol-Related Problems in Young Adulthood	Josephine Robertson, Allie Barringer, Valerie Burnett, Kathryn Ryser, Lauren Papp (Mentor)
288	Towards a Pan-Group Activator of the Quorum Sensing System in <i>Staphylococcus epidermidis</i>	Wenqi Shen, Helen Blackwell (Mentor)
289	Genetic and Biochemical Characterization of Suppressors of TyrA2 (SOTA) in Arabidopsis	Yar Xin Phang, Hiroshi Maeda (Mentor)
290	Utilizing Machine Chips from Subtractive Manufacturing for Additive Manufacturing Feedstock	Matthew McAllister, Frank Pfefferkorn (Mentor)

Continued on next page

## Posters *continued*

PS#	TITLE	Presenters and Mentors
291	Restoring Expression of MHC Proteins in Prostate Cancer via Epigenetic Modifications	Harshitha Gungurthi, Aaron Strauch, Erika Heninger (Mentor)
292	Investigation and Characterization of Pivotal PUF Proteins in <i>C. elegans</i> Stem Cells	Kimberley Law, Judith Kimble (Mentor)
293	Nuclear Calcium Spiking is Involved in Symbiotic Signaling between Poplar and <i>Mycorrhizal Fungi</i>	Edward Steigerwald, Jean-Michel Ane (Mentor)
294	Distal Sociodemographic Impacts on Infant Temperament	Ashley Ford, Bailey Immel, Hill Goldsmith (Mentor)
295	Implication of Homer1c in Hippocampal Cognitive Aging by Targeted Genome Editing	Michael Kessler, Corinna Burger (Mentor)
296	Growth and Soil Moisture Responses of Intermediate Wheatgrass	Patricia Ryou, Kate Ivancic (Mentor)
297	Elucidating the Role of Neutrophils in Oncogenic Mass Formation	Meng Lou, Davalyn Powell (Mentor)
298	Investigating Social Category Preferences and Stereotypes in Early Childhood	Andrea Vaca, Rachel King (Mentor)
299	Ramanujan Graphs	Rodrigo Smith, Nick Lawrence, Naser Talebizadeh Sardari (Mentor)
300	Mutations in Lyn Kinase Cause Changes in Neutrophil Function and Migration	Julia Chini, Anna Huttenlocher (Mentor)

## Project Display

### Session 1: 9:30–10:45 a.m.

#### VARSITY HALL

Title	Presenters and Mentors
Production of Nanomaterials Using Bottom-Up Design	Vedantika Chaudhary, Wenxiao Pan (Mentor)
Euler's Formula and the Efficacy of Different Learning Conditions	Pachia Yang, John McGinty (Mentor)
The Benefits of Enactive Learning on Understanding	Gabrielle Schaap, Mitchell Nathan (Mentor)

### Session 2: 11 a.m.–12:15 p.m.

#### VARSITY HALL

Title	Presenters and Mentors
<i>Illumination</i> , the Undergraduate Journal of Humanities	Maria Fernanda Martinez Rodriguez, Jim Rogers (Mentor)
The Color of Feminist Future	Emma Leeper, Claire Wilson (Mentor)

### Session 3: 2–3:15 p.m.

#### VARSITY HALL

Title	Presenters and Mentors
<i>Souvenirs</i> Fall Print Issue	Sophia Dramm, Jim Rogers (Mentor)



## 2018 Student Presenters

Last Name, First	Type	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
Abitz, Catherine	T	I	SW		Burnett, Valerie	PS	III	VH	87	Ford, Ashley	PS	III	VH	94
Ackerman, Alyssa	AT	III	MT		Bushman, Maggie	PS	I	VH	56	Franz, Paolo	PS	III	VH	9
Adkins, Tylor	PS	I	VH	68	Cai, Wenxuan	T	II	TR		Frazier, Matthew	PS	II	VH	89
Africano, Sophia	PS	I	VH	37	Callies, Katelyn	PS	II	VH	21	Fujimoto, Allison	T	I	SW	
Aguirre, Leslie	PS	II	VH	57	Campagnola, Gabrielle	PS	II	VH	6	Gallagher, Isabelle	PS	I	VH	53
Ahler, Sam	PS	I	VH	82	Carlson, Kristin	T	III	IN-B		Galles, Natalie	T	I	IN-A	
Akbari, Madeline	PS	I	VH	44	Carlson, Tess	PS	I	VH	28	Gallo, Samuel	PS	II	VH	58
Albrecht, Joseph	PS	I	VH	24	Catao, Joao	T	III	NW-A		Galvan, Jesus	T	III	NW-B	
Alimi, Kudirat	PS	III	VH	74	Charania, Shehrose	T	III	NW-A		Gannon, James	PS	II	VH	76
Allen-King, Kendall	T	II	LM-A		Chaudhary, Vedantika	PR	I	VH		Ganslaw, Hayley	AT	II	MT	
Allen, Samuel	T	I	LM-B		Childs, Charlie	PS	I	VH	11	Garcia, Clara	PS	I	VH	48
Allison, Anthony	PS	III	VH	40	Chini, Julia	PS	III	VH	100	Gayley, Kevin	PS	II	VH	97
Almagri, Abdulgader	PS	III	VH	9	Chotlos, Matthew	PS	II	VH	83	Geissler, Jason	T	I	TR	
Alvarez, Wendy	T	III	NW-A		Christopher, Tighe	PS	III	VH	54	Ghaffari-Nikou, Natalie	PS	II	VH	23
Alwan, Vanessa	PS	III	VH	1	Chua, Ryan	PS	I	VH	23	Giguere, Kate	PS	I	VH	87
Amer, Mahbuba	PS	I	VH	3	Coker, Adetola	T	I	SW		Ginther, Alyssa	PS	I	VH	45
Amundson, Lindsey	T	III	LM-A		Coker, Olatomiwa	T	II	LM-B		Goetz, John	PS	III	VH	9
Anderegg, Genevieve	PS	II	VH	88	Colin, Kou	PS	III	VH	5	Gomez, Jessica	PS	I	VH	98
Anderson, Maren	PS	I	VH	17	Combs, Aidan	T	I	IN-B		Gonzales, Michael	PS	III	VH	21
Ansari, Rahim	PS	I	VH	62	Condon, Erin	T	II	NW-B		Gowda, Madhu	T	I	Ag-A	
Anzia, Lucille	T	I	IN-A		Cosby, Jacob	T	I	IN-B		Grossy, Anna	PS	I	VH	73
Ard, Erin	T	I	NW-A		Curran, Andrew	PS	III	VH	51	Greenfield, Daniella	PS	I	VH	96
Armon, Alec	T	III	LM-B		Dahlke, Ross	T	I	Ag-A		Groh, Aiyana	PS	I	VH	74
Atsaves, Paula	PS	III	VH	53	Dahlke, Ross	PS	II	VH	10	Gruenke, Nathan	PS	II	VH	38
Ausloos, Emily	PS	I	VH	70	Dai, Yuqing	T	III	SW		Gruenke, Rachel	T	II	AL	
Bacskai, Owen	T	II	NW-B		Daniels, Josh	PS	I	VH	93	Gu, Yuhe	T	III	SW	
Bado, Maxwell	T	I	NW-A		Day, Jenny	PS	III	VH	36	Guarnieri, Erin	T	II	Ag-A	
Bailey Immel	PS	III	VH	94	Daykin, Emily	PS	I	VH	15	Guevara, Miriam	T	III	IN-A	
Ballweg, Shelby	PS	I	VH	49	Decheine, Nicholas	PS	I	VH	94	Gui, Michael	PS	II	VH	49
Ballweg, Tyler	T	I	Ag-A		Deepu Rajan, Nidhi	T	II	IN-B		Gungurthi, Harshitha	PS	III	VH	91
Barker, Madison	PS	II	VH	59	Deets, Stuart	T	I	IN-B		Hahn, Sarah	PS	I	VH	31
Barnes, Bridget	PS	I	VH	72	Delmastro, Lauren	T	I	NW-B		Halama, Samuel	PS	I	VH	25
Barnet, Madison	T	III	NW-A		Den Hartog, Daniel	PS	III	VH	9	Hamm, Caleb	PS	III	VH	44
Barringer, Allie	PS	III	VH	87	Dentice, Allison	T	III	AL		Hanson, Brooke	PS	II	VH	81
Barron, Kyle	PS	III	VH	24	Depke, Mitchell	T	III	IN-B		Hanson, Caroline	T	II	LM-A	
Baryenbruch, Megan	T	III	NW-A		Derynda, Brittany	T	II	TR		Hanson, Caroline	T	II	LM-B	
Bass, Conlin	T	I	NW-A		Didier, Tyler	PS	II	VH	14	Hargreaves, Mathew	T	II	NW-A	
Batjer, Hunter	PS	I	VH	71	Diebold, Alexander	PS	II	VH	40	Hartnett, Caitin	PS	II	VH	31
Battula, Sindhuja	PS	II	VH	62	Diermeier, Megan	T	I	NW-A		Hartwig, Emily	PS	III	VH	55
Bedi, Kabir	T	III	NW-B		Doerrer, Molly	PS	II	VH	57	Hassett, Ryan	T	II	NW-B	
Bee, Olivia	PS	II	VH	13	Dolkar, Tsewang	T	II	NW-B		Hatch, Dylan	T	III	IN-B	
Beier, Molly	PS	II	VH	26	Dolma, Sonam	PS	II	VH	98	Haut, Ashley	T	II	NW-B	
Below, Elizabeth	PS	I	VH	100	Dopp, Isaac	PS	I	VH	67	Hawley, Terra	T	II	WI	
Bendorf, Josh	PS	I	VH	60	Dramm, Sophia	PR	III	VH		He, Quanfa	T	I	LM-B	
Bennett, Augustin Bennett	T	II	NW-A		Dworak, PS	III	VH	45	Heaster, Tiffany	PS	III	VH	6	
Berglin, Samuel	T	III	NW-A		Edwards, Kayla	PS	II	VH	54	Helfenbein, Kylie	T	I	AL	
Bernson, Josh	T	III	LM-A		Edwards, Mae	T	III	NW-B		Hendrickson Gagen, Kathryn	T	III	LM-A	
Berry, Mackenzie	AT	II	MT		Eichstedt-Anderson, Emily	PS	III	VH	71	Heo, Helen	T	I	TR	
Berry, Mackenzie	AT	III	MT		El-Hassan, Ismail	T	III	NW-A		Herbert, Eric	PS	II	VH	15
Betancourt, Gabriela	PS	I	VH	88	Ellefson, Johanna	PS	II	VH	9	Hernandez, Camila	PS	III	VH	27
Beyer, Hope	PS	I	VH	75	Elmquist, Asher	T	III	IN-B		Hernandez, Evan	PS	I	VH	1
Bhuiyan, Iffat	PS	I	VH	74	Erbe, Jonathan	PS	III	VH	67	Heroor, Ananya	PS	I	VH	81
Blair, Alexander	PS	II	VH	100	Erens, Jacqueline	T	III	Ag-A		Hetzel, Molly	PS	III	VH	35
Blazel, Madeleine	PS	III	VH	84	Erickson, Alissa	PS	III	VH	59	Heumann, Jessica	T	II	NW-B	
Boppel, Morganne	PS	II	VH	82	Every, Gabrielle	PS	III	VH	11	Hibbard, Michael	PS	I	VH	21
Bormann, Anastasia	T	I	NW-B		Ewald, James	T	I	LM-B		Higgins, Phoenix	PS	III	VH	61
Boroumand, Sam	PS	III	VH	52	Fabry, Roman	PS	I	VH	52	Hoehn, Rebecca	T	II	IN-B	
Boyer, Hailey	PS	I	VH	46	Fahmy, Lauren	PS	I	VH	12	Hoffarth, Lauren	T	III	TR	
Boynton, Ethan	PS	III	VH	85	Falk, Madelyn	PS	II	VH	18	Hoffins, Evan	PS	I	VH	22
Braza, Meredith	PS	II	VH	73	Fang, Liancheng	T	II	IN-A		Hoffman, Caitlin	PS	III	VH	16
Brehmer, Collin	PS	I	VH	54	Fanibi, Ebenezer	PS	III	VH	48	Hoffman, Shane	PS	I	VH	83
Bremer, Bennett	PS	III	VH	79	Farrell, Cayley	PS	I	VH	29	Hoffmann, Brianna	PS	I	VH	76
Brinkman, Julie	PS	I	VH	20	Feeney, Austin	PS	III	VH	38	Holland, Jen	PS	I	VH	74
Brix, Melissa	PS	III	VH	37	Ferrer, Brian	PS	I	VH	27	Hollender, Drew	T	III	NW-B	
Browne, Chantel	PS	III	VH	58	Fieldbinder, Alison	PS	II	VH	9	Holub, Meaghan	PS	I	VH	59
Bruce, Brandon	PS	I	VH	84	Fisher, Paige	PS	I	VH	69	Hong, Felissa	T	II	WI	
Burgos-Robles, Emanuel	T	I	NW-A		Fitzsimmons, Ryan	PS	I	VH	7	Hu, Mengzhou	T	I	LM-A	



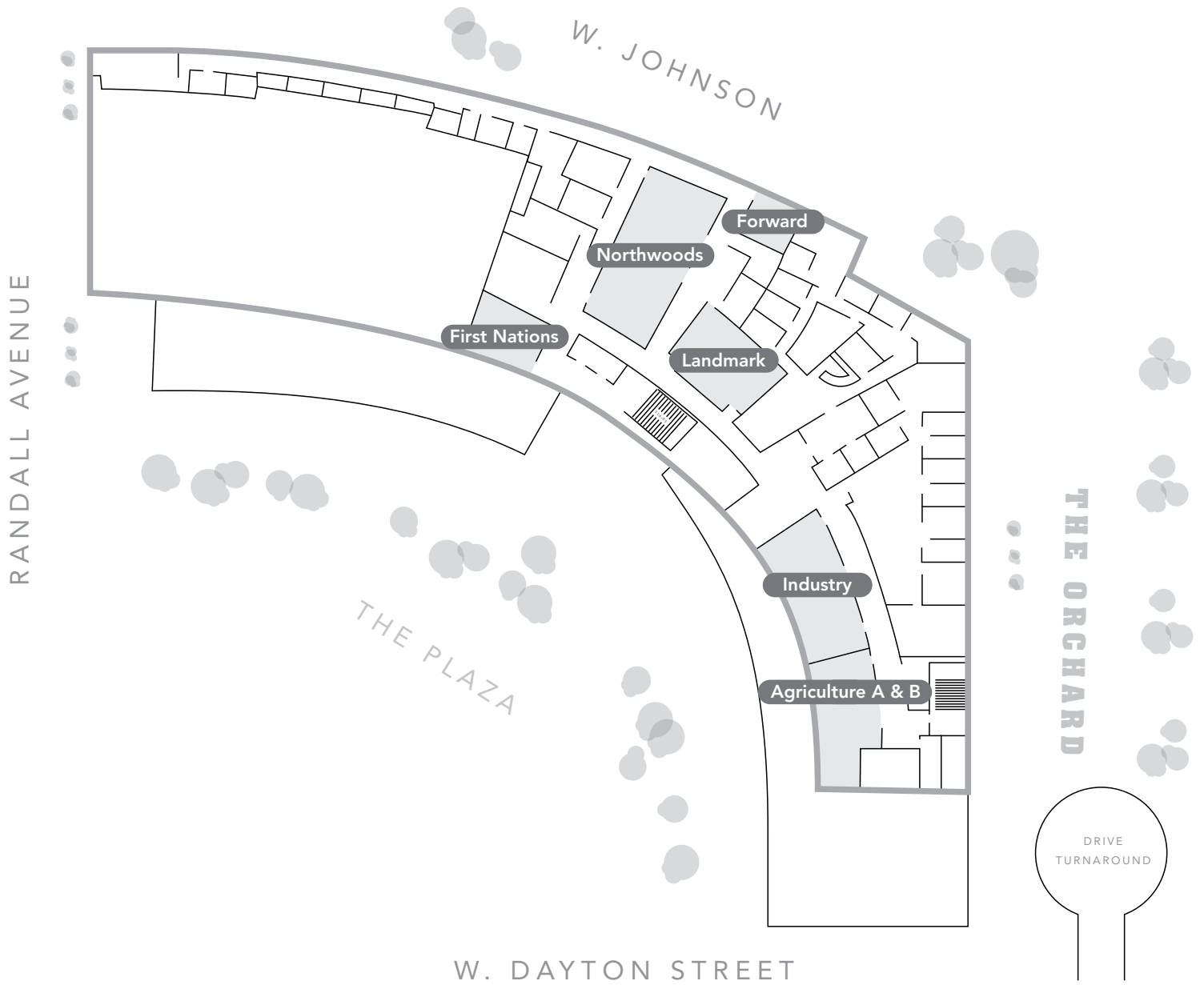
Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
Huang, Congfang	PS	II	VH	45	Langer, Kaylin	PS	II	VH	66	Miller, Jessica	PS	II	VH	86
Huang, Drew	PS	I	VH	86	Langer, Sarah	PS	III	VH	45	Miller, Nathaniel	PS	I	VH	99
Huang, Leslie	T	II	IN-B		Langmeir, Jenna	PS	I	VH	37	Milostan, Matthew	PS	II	VH	33
Huizar, Isabella	T	II	NW-B		Latham, Alexander	T	I	LM-A		Minerva, Nicole	PS	I	VH	16
Hussey, Grant	T	II	WI		Lauersdorf, Nick	PS	III	VH	9	Mirkes, Matthew	PS	I	VH	78
Hussey, Molly		III	LM-B		Law, Kimberley	PS	III	VH	92	Mirza, Sanober	T	III	AL	
Hussey, Molly	T	II	LM-B		Lawrence, Nick	PS	III	VH	99	Mitchell, Arielle	PS	II	VH	29
Hussey, Molly	T	II	LM-B		Lawrence, Sophia	PS	III	VH	81	Molina Gonzalez, Jean C	PS	I	VH	97
Hwang, Jessie	T	II	Ag-A		Lawton, Samuel	PS	II	VH	34	Moody, Carlton				
Hylton, Chelsea	PS	I	VH	33	Lee, Danny	PS	III	VH	70	Mora Hurtado, Arielle	PS	I	VH	57
Hyzer, Reese	PS	II	VH	65	Lee, Richard	PS	II	VH	96	Morse, Claire	T	III	LM-A	
Ignatowski, Marina	PS	I	VH	36	Lee, Tshachee	PS	II	VH	70	Mortensen, Kara	PS	I	VH	55
Incha, Matthew	T	I	LM-B		Lee, Uriel	PS	I	VH	66	Moy, Winnie	PS	III	VH	46
Jackson, Kaitlyn	PS	I	VH	18	Leeper, Emma	PR	II	VH		Mueller, Brett	T	II	LM-A	
Jacobson, Natalie	PS	III	VH	45	Lees, Taylor	T	III	NW-B		Munoz, Amaya	PS	III	VH	60
Jaeger, Jacob	PS	II	VH	20	LeFebre, Ryan	PS	I	VH	68	Murray, Michael	T	III	WI	
Jain, Vansh	PS	II	VH	52	Lentz, Morgan	PS	I	VH	9	Myers, Annika	PS	II	VH	63
Janke, Anna	PS	II	VH	42	LeSage, Emily	PS	III	VH	73	Nazareth, Julian	T	II	TR	
Jardas, Emma	T	II	Ag-A		Levin, Alder	PS	I	VH	90	Nelson, Brooke	PS	I	VH	53
Jean-Pierre, Yeltsin	T	II	SW		Levin, Lillie	PS	II	VH	11	Nelson, Nicole		III	LM-B	
Jiang, Lihanzhi	PS	II	VH	16	Levine, Julia	AT	II	MT		Nelson, Nicole	T	II	LM-B	
Jodts, Richard	T	III	TR		Li, Grace	T	II	SW		Nelson, Nicole	T	II	LM-B	
Johnson, Michelle	PS	II	VH	31	Lin, Amy	PS	III	VH	57	Nemeth, Haley	T	II	NW-B	
Johnson, Taylor	T	II	NW-B		Liu, Margaret	PS	I	VH	91	Neumann, Edwin	PS	III	VH	7
Johnston, Courtney	T	I	Ag-A		Liu, Yusi	T	II	TR		Nguyen, Thanh Phuong	PS	II	VH	41
Jona, Orli	PS	I	VH	31	LoBue, Allison	T	II	NW-A		Nilsen, Vanessa	PS	I	VH	21
Jorgensen, Lauren	PS	III	VH	81	Locke, Josiah	PS	II	VH	78	Nilsen, Vanessa	T	II	IN-A	
Joyce, Abbie	PS	I	VH	89	London, Lindsay	T	III	SW		Nosker, Napoleon	PS	II	VH	94
Kalambokidis, Maria	T	III	SW		Lopez, Marco	T	II	IN-A		Oakes, Steven	PS	I	VH	92
Kamer, Keith	T	II	NW-A		Lou, Meng	PS	III	VH	97	Ojo, Ebenezer	PS	I	VH	51
Kanchana Karthik, Radha	PS	II	VH	1	Lundeeng, William	PS	II	VH	85	Okafor, Annette	T	III	NW-A	
Kang, Huang	T	III	Ag-A		Luu, Gina	PS	I	VH	4	Oliva, Jason	PS	I	VH	77
Karimikonda, Sritejasvithi	PS	I	VH	42	Lynch, Brianna	PS	II	VH	12	Olsen, Nicholas	PS	I	VH	30
Karmacharya, Jaylina	PS	II	VH	51	Machnik, Alexa	T	I	TR		Orozco, Ben	AT	II	MT	
Karp, Hannah	PS	II	VH	25	Madrid, Alecio	T	III	LM-A		Ostermeier, Anna	PS	II	VH	31
Karp, Hannah	T	II	TR		Malas, Bilal	T	II	LM-A		Ostermeier, Anna	PS	I	VH	53
Kartik-Narayan, Anushri	PS	I	VH	84	Mali, Mayank	T	I	NW-A		Otto, Jacob	T	III	WI	
Kaufmann, Adam	T	II	SW		Mancl, Mary Claire	T	I	LM-B		Ougayour, Yasmeena		III	LM-B	
Kaul, Megan	PS	I	VH	37	Maniola, Amy	T	I	IN-A		Ougayour, Yasmeena	T	II	LM-B	
Kear, Sarah	PS	I	VH	14	Manzoor, Zainab	PS	I	VH	41	Oxtoby, Lucas	PS	I	VH	50
Keita, Mory	PS	II	VH	68	Markworth, Lindsay	PS	I	VH	19	Pahapill, Natalie	PS	III	VH	17
Keith, Celeste	PS	II	VH	97	Martinez Rodriguez, Maria Fernanda	PR	II	VH		Pan, Wenxiao	PR	I	VH	
Keith, Celeste	T	II	SW		Mashl, Alexis	PS	I	VH	13	Pappin, Molly	PS	III	VH	72
Kelly, Conlain	PS	III	VH	30	Massey, Chris	T	II	IN-A		Pardell, Connor	PS	II	VH	7
Kessler, Michael	PS	III	VH	95	Mathiaparanam, Olympia	PS	I	VH	84	Parries, Molly	PS	III	VH	39
Khoshimov, Bekhzod	T	I	IN-A		May, Jay	T	I	NW-B		Passow, Alexander	PS	I	VH	61
Kinney, John	T	I	IN-B		Mays, Joziah	PS	II	VH	92	Patel, Nikita	PS	I	VH	35
Kircher, Madison	PS	II	VH	61	McAdow, Kristin	PS	II	VH	95	Patel, Siddharth	T	I	NW-B	
Kish, Rebecca	PS	III	VH	83	McAllister, Matthew	PS	III	VH	90	Paxon, Katherine	T	I	AL	
Kizaric, Matt	T	III	NW-B		McBride, Hannah	PS	I	VH	2	Pelot, Samuel	T	I	NW-B	
Klink, Tyler	PS	II	VH	8	McCabe, Michaela	PS	II	VH	5	Pena-Moreno, Diana	T	II	NW-B	
Knott, Emily	PS	III	VH	22	McCormick, Kellen	T	I	SW		Peters, Danielle	PS	III	VH	12
Kosmach, Anna	PS	III	VH	84	McCune, Elise	PS	I	VH	47	Peterson, Siri	PS	III	VH	80
Kotsonis, Dianne	PF	II	MT		McDougal, Allison	PS	II	VH	22	Phang, Yar Xin	PS	III	VH	89
Kowieski, Megan	T	II	WI		McGoey, Ashley	PS	III	VH	42	Pitts, Alexander	PS	II	VH	19
Krause, Tristan	T	III	AL		McKeel, Emma	PS	III	VH	68	Plum, Alex	PS	II	VH	27
Krauska, Emma	PS	III	VH	4	McNerney, Christina	PS	III	VH	8	Porter, Julia	PS	II	VH	36
Kreis, Madeline	PS	III	VH	10	McPheron, Mari	PS	III	VH	41	Powers, Kyle	PS	I	VH	53
Krueger, Kyle	PS	III	VH	43	Mehlhaff, Isaac	T	II	AL		Proud, Jen	PS	III	VH	86
Kuhlow, Avery	PS	II	VH	60	Mejia, Daisy	PS	I	VH	32	Prudhom, Ashley	PS	III	VH	82
Kumar, Maanil	T	II	NW-B		Men, Yusen	T	III	SW		Quervermacher, Mary	PS	III	VH	10
Kurth, Madison	PS	III	VH	49	Menendez, David	T	II	NW-B		Quan, Yin	PS	III	VH	6
Lai, Ting An	PS	III	VH	77	Mephokee, Hoyon	T	I	IN-B		Quigley, Daniel	T	II	LM-B	
Lam, Brandon	PS	III	VH	29	Meyer, Emma	T	III	TR		Quincey, Jake	PS	II	VH	37
Lamers, Abigail	PS	II	VH	44	Miller, Blake	T	III	IN-B		Quinn, Sarah	PS	I	VH	10
Lan, Jinyi	T	I	LM-B		Miller, Caroline	PS	III	VH	25	Rabinowitz, Lena	T	III	NW-A	
Lange, Kendra	T	II	AL							Raimer, Chantel	PS	I	VH	5

Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
Ramanathan, Rasika	T	III	TR		Skala, Melissa	PS	III	VH	6	Weber, Ellen	PS	I	VH	37
Rameshk, Alysha	PS	II	VH	67	Skiba, Justin	T	I	NW-B		Weber, Sarah	PS	II	VH	32
Ranabhat, Arianna	PS	III	VH	19	Skiljevic, Tanja	T	III	WI		Wegener, Holly	T	II	Ag-A	
Rasmussen, Kayla	PS	I	VH	40	Smith, Cynthia	PS	I	VH	85	Weinberg, David	PS	III	VH	34
Rehman, Shujah	PS	III	VH	33	Smith, Rodrigo	PS	III	VH	99	Welke, Jacqueline	T	III	NW-B	
Reusch, Lisa	PS	III	VH	9	Soni, Rikin	T	I	NW-B		Welsch, Jacob	PS	II	VH	69
Ritts, Casey	PS	III	VH	63	Spiegelberg, Bailey	PS	II	VH	28	Westergaard, Ryan	T	II	NW-B	
Rivoire, Maia	T	I	NW-A		Spiegelhoff, Audrey	PS	II	VH	74	Westphall, Matthew	PS	II	VH	39
Robertson, Josephine	PS	III	VH	87	Staikos, Alexios	PS	III	VH	66	Wildermuth, Hannah	PS	III	VH	15
Robinson, Nick	PS	I	VH	95	Staples, Sage	PS	I	VH	8	Willging, Molly	T	I	LM-A	
Rodriguez, Aida	PS	II	VH	52	Steckel, Tobiah	PS	II	VH	75	Williams, Laura	PS	III	VH	47
Rogers, Brad	T	II	TR		Steigerwald, Edward	PS	III	VH	93	Williams, Michael	T	I	NW-A	
Rogers, Christine	T	II	IN-B		Stephens, Elizabeth	PS	III	VH	73	Wittman, Andrew	PS	II	VH	30
Rogers, Melanie	PS	I	VH	86	Stephenson, Elm	PS	II	VH	99	Woodward, Roman	T	II	TR	
Rolsma, Benjamin	T	III	IN-B		Sterman, Riley	T	III	NW-B		Worzalla, Skylyn	PS	III	VH	69
Romantz, Alexander	T	I	AL		Strange, Maxwell	PS	II	VH	80	Writz, Danielle	PS	I	VH	6
Romero, Sophie	T	III	TR		Strauch, Aaron	PS	III	VH	91	Wu, Linda	T	I	NW-A	
Rosinski, Jenna	PS	I	VH	26	Suresh, Vineeth	PS	I	VH	63	Wu, Vanessa	PS	I	VH	29
Rosinsky, Karly	PS	III	VH	14	Svetic, Alice	PF	III	MT		Wu, Yuqing	T	II	LM-A	
Ross, Joie	PS	II	VH	72	Sweet, Megan	T	I	LM-B		Xu, Carol	T	I	TR	
Ross, Jordan	T	I	IN-A		Tabbutt, Megan	T	I	TR		Yaeger-Weiss, Susanna	PS	III	VH	65
Roth, Max	T	I	LM-B		Tajimaroa-Arroyo, Jason	PS	II	VH	35	Yaeger, Amara	T	I	LM-A	
Rottier, Helen	PS	II	VH	47	Tang, Boyang	PS	III	VH	2	Yang, MZ	T	III	NW-A	
Rouleau, Jack	T	II	NW-A		Tapia, Diana	PS	II	VH	43	Yang, Nan Inmong	PS	II	VH	91
Rust, Drew	T	II	SW		Tarawneh, Omar	T	I	Ag-A		Yang, Pachia	PR	I	VH	50
Ryou, Patricia	PS	III	VH	96	Terlov, Grigory	T	I	IN-A		Yang, Shany	PS	III	VH	32
Ryser, Kathryn	PS	III	VH	87	Terlov, Grigory	T	I	AL		Yang, Yaning	PS	II	VH	79
Saini, Anuradha	T	III	NW-B		Tesfamichael, Dahlia	PS	II	VH	46	Yasmeena, Ougayour	T	II	LM-B	
Samuelsen, Christine	PS	III	VH	18	Thao, Kelly	PS	II	VH	93	Yohnk, Hannah	PS	II	VH	87
Sanchez, Maria	T	II	NW-A		Thao, Myxee	PS	III	VH	62	Yourich, Jacob	PS	II	VH	4
Sanchez, Maria	PS	I	VH	29	Thierry, Emily	T	I	IN-A		Yuasa, Mikihisu	PS	I	VH	79
Sandgren, John	PS	I	VH	17	Thomas, Nicole	PS	III	VH	58	Yudawanti, Anisa	PS	III	VH	23
Sanger, Morgan	T	II	AL		Thornton, Jessica	PS	II	VH	55	Zaidi, Ali	T	I	NW-A	
Sass, Madilyn	T	III	NW-B		Thuoa, Paula	PS	I	VH	80	Zenker, Rachel	PS	I	VH	17
Sauer, Sydney	PS	III	VH	50	Toguem, Malika	T	III	NW-B		Zenker, Rachel	PS	II	VH	7
Scarasso, Marco	T	III	AL		Tong, Yi	T	III	NW-A		Zhang, Hanshu	PS	I	VH	94
Schaap, Gabrielle	PR	I	VH		Tracy, Zachary	T	II	WI		Zhang, Helen	PS	III	VH	31
Schaetzel, Luke	T	III	Ag-A		Tran, Cathy	PS	III	VH	64	Zhang, Xuan	PS	III	VH	3
Scharenbrock, Amanda	T	III	AL		Tremmel, Daniel	PS	II	VH	52	Zhao, Jiaxuan	PS	III	VH	2
Schefelker, Juliette	PS	III	VH	76	Trimarco, Joseph	T	III	IN-B		Zhao, Yinghua	T	I	NW-B	
Schmansky, Tina Marie	T	II	WI		Turco, Teresa	T	I	AL		Zhao, Zhiyun	T	I	LM-A	
Schmidt, Karina	PS	II	VH	64	Ulschmid, Caden	PS	III	VH	75	Zhou, Weipeng	T	II	IN-B	
Schmidt, Sophia	PS	III	VH	78	Vaca, Andrea	PS	III	VH	98	Zhu, Yan	PS	II	VH	24
Schmidt, Stephanie	PS	II	VH	71	Vanmeter, Patrick	PS	III	VH	9	Zimmerman, Maddie	T	I	SW	
Schmitt, Claudia	PS	III	VH	84	Vasdev, Ranveer	PS	I	VH	38					
Schultz, Adam	PS	II	VH	3	Vavrus, Claire	PS	I	VH	43					
Schultz, Adam	PS	III	VH	20	Venkatesh, Rahul	T	III	Ag-A						
Seamon, David	T	I	LM-B		Verbeten, Mari	PS	I	VH	74					
Sellnow, Kyrie	PS	I	VH	39	Verbeten, Mari	PS	III	VH	28					
SenthilKumar, Gopika	T	II	NW-A		Vichr, Maximilian	T	I	IN-B						
Setzke, Jonathan	PS	II	VH	77	Vilela, Claudia	T	II	IN-A						
Sha, Hele	T	III	IN-A		Villegas, Natalie	PS	II	VH	56					
Shana, Ola	PS	II	VH	48	Wagner, Sam	T	III	LM-A						
Shandonay, Adam	T	III	IN-A		Waite, Lindsey	PS	II	VH	84					
Sharma, Aditya	T	III	LM-A		Wallace, Zachary	PS	II	VH	36					
Sharpless, Alison	T	III	LM-B		Walsh, Alexandra	PS	III	VH	6					
Shea, Briana	T	II	Ag-A		Walzer, Daniel	T	II	AL						
Shen, Simone	PS	III	VH	26	Wang, Chenli	T	III	SW						
Shen, Tianzhe	T	III	WI		Wang, Claire	PS	I	VH	32					
Shen, Wenqi	PS	III	VH	88	Wang, Donglin	T	III	LM-A						
Shortreed, Cecilia	PS	II	VH	17	Wang, Junting	T	I	IN-A						
Sii, Adileen	PS	II	VH	2	Wang, Nathan	PS	III	VH	13					
Silber, Lauren	T	I	SW		Wang, Peidong	T	III	Ag-A						
Simmons, Syeeda	PS	I	VH	58	Wang, Zijie(Jay)	PS	III	VH	6					
Simmons, Trevor	T	III	TR		Warden, Aleah	PS	I	VH	65					
Simpson, Rita	PS	I	VH	64	Washechek, Krista	PS	III	VH	56					
Siverhus, Kelly	PS	I	VH	34	Watter, Kyle	PS	II	VH	90					

# Union South Level 2



# Union South Level 3



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undergraduate academic and creative work at the

# Friends and Family Reception

Talk with alumni, students, friends, family, and university partners  
who want to learn about student projects

Thursday, April 13, 2018

12:45–1:45 p.m.

Union South—Varsity Hall

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Steven M. Cramer, Vice Provost for Teaching and Learning

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