2019 PURDUE UNDERGRADUATE RESEARCH CONFERENCE

APRIL 4 & 9, 2019
West Lafayette, Indiana
**PURDUE UNDERGRADUATE RESEARCH CONFERENCE**

**SCHEDULE OF EVENTS**

**APRIL 4, 2019 :: STEW 214**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 — 2:00 PM</td>
<td>Oral Presentations I, STEW 214</td>
</tr>
<tr>
<td>2:30 — 3:00 PM</td>
<td>Oral Presentations II, STEW 214</td>
</tr>
<tr>
<td>3:00 — 4:00 PM</td>
<td>Oral Presentations III, STEW 214</td>
</tr>
</tbody>
</table>

**APRIL 9, 2019 :: PMU BALLROOMS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 — 9:00 AM</td>
<td>Morning Poster Session Set-Up</td>
</tr>
<tr>
<td>9:00 — 11:30 AM</td>
<td>Morning Poster Symposium</td>
</tr>
<tr>
<td>12:00 — 1:00 PM</td>
<td>Afternoon Poster Session Set-Up</td>
</tr>
<tr>
<td>1:00 — 3:30 PM</td>
<td>Afternoon Poster Symposium</td>
</tr>
</tbody>
</table>

Oral presentation session schedule and the poster symposium layout are found later in this program.

Refreshments are available during all sessions.

There will not be an awards ceremony this year.
### Purdue Undergraduate Research Conference Oral Presentation Schedule

<table>
<thead>
<tr>
<th>PRESENTATION START TIME</th>
<th>STEW 214-A</th>
<th>STEW 214-B</th>
<th>STEW 214-C</th>
<th>STEW 214-D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SESSION 1</strong> (1 to 2pm)</td>
<td></td>
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<tr>
<td>1:00</td>
<td>The Jamsian Child</td>
<td>Data Use and Privacy in the Public Sector</td>
<td>Fatigue in Collegiate Aviation</td>
<td>The Near Tragedy of Gemini 8: How Neil Armstrong's First Space Mission was almost his Last</td>
</tr>
<tr>
<td></td>
<td>Hang Ma</td>
<td>Sarah Roederbeck</td>
<td>Erik Levin</td>
<td>Sam Conkie</td>
</tr>
<tr>
<td></td>
<td>College of Liberal Arts</td>
<td>College of Science</td>
<td>Polytechnic Institute</td>
<td>College of Engineering</td>
</tr>
<tr>
<td></td>
<td>Amanda Evans</td>
<td>College of Health &amp; Human Sciences</td>
<td>College of Health &amp; Human Sciences</td>
<td>Apollo in the Archives</td>
</tr>
<tr>
<td></td>
<td>College of Liberal Arts</td>
<td>Celine Jusuf</td>
<td>Jiada Zhan</td>
<td>Alex Crick</td>
</tr>
<tr>
<td></td>
<td></td>
<td>College of Health &amp; Human Sciences</td>
<td>College of Health &amp; Human Sciences</td>
<td>College of Science</td>
</tr>
<tr>
<td>1:40</td>
<td>Amelia Earhart: Feminist or Not?</td>
<td>Optimize the Detection of N-Terminally Methylated Protein Substrates in CeLytes</td>
<td>A Pilot Study of the Communication Barriers of Mandarin-Speaking International Students in American Colleges</td>
<td>Female Strength in Tolkien's The Lord of the Rings</td>
</tr>
<tr>
<td></td>
<td>Rachel Small</td>
<td>Daniel Adeniji</td>
<td>Yuqing Wu</td>
<td>Zoe Franznick</td>
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<tr>
<td></td>
<td>College of Liberal Arts</td>
<td>College of Pharmacy</td>
<td>Polytechnic Institute</td>
<td>College of Liberal Arts</td>
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<tr>
<td></td>
<td>Archival Research Selection</td>
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<tr>
<td><strong>SESSION 2</strong> (2 to 3pm)</td>
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<tr>
<td>2:00</td>
<td>Effect of Hypoxia on Breast Cancer Cells</td>
<td>Developing a Cell-Free System for Assessing On/Off-Target Activities of Argonaute-Based Gene-Editing Tools</td>
<td>Whole-Brain Approaches for Investigating Iron Accumulation by R2* show no Excess from Occupational Exposure to Welding Fumes</td>
<td>Space Food between the Moon and Mars: Contributions from Purdue University</td>
</tr>
<tr>
<td></td>
<td>Hyesoo Choe</td>
<td>Zach Hartley</td>
<td>Jennifer Davis</td>
<td>Celine Chang</td>
</tr>
<tr>
<td></td>
<td>College of Pharmacy</td>
<td>College of Agriculture</td>
<td>College of Health &amp; Human Sciences</td>
<td>Polytechnic Institute</td>
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<tr>
<td></td>
<td>Honors College</td>
<td></td>
<td>Interdisciplinary Research Selection</td>
<td>Apollo in the Archives</td>
</tr>
<tr>
<td>2:20</td>
<td>Discovering the Effects of Study Abroad within Participants' Lives</td>
<td>Food Safety Knowledge and Perception of Young Adults with Shared Use Kitchens</td>
<td>Drying LAMP Reagents for Increased Portability and Usability of Point-of-Care Diagnostics</td>
<td>Remembering Apollo: Criticism &amp; Celebration</td>
</tr>
<tr>
<td></td>
<td>Laura Duke</td>
<td>Emily Chuang</td>
<td>Lauren Jankowski</td>
<td>Tyler Mahlmann</td>
</tr>
<tr>
<td></td>
<td>College of Education</td>
<td>College of Agriculture</td>
<td>College of Engineering</td>
<td>College of Engineering</td>
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<tr>
<td></td>
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<td></td>
<td>Honors College</td>
<td>Apollo in the Archives</td>
</tr>
<tr>
<td>2:40</td>
<td>Politics on the Periphery: Oscar Ewing and a Special Relationship with Israel</td>
<td>Perceptions of Campus Social Climate Among Racial and Ethnic Minority Students in Different Political Areas: A Multi-Institutional Analysis</td>
<td>Employment Law: Antidiscrimination and Privacy Regulations Related to Genetic Information</td>
<td>Relation of Demographic and Socioeconomic Factors to Superfund Site Location in Indiana</td>
</tr>
<tr>
<td></td>
<td>Sarah Weaver</td>
<td>Maya Black</td>
<td>Ethan Hicks</td>
<td>Hannah Gallion</td>
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<tr>
<td></td>
<td>College of Education</td>
<td>College of Science</td>
<td>Kranert School of Management</td>
<td>College of Health &amp; Human Sciences</td>
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<td>Honors College</td>
<td>Honors College</td>
<td>Interdisciplinary Research Selection</td>
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<tr>
<td><strong>SESSION 3</strong> (3 to 4pm)</td>
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<tr>
<td>3:00</td>
<td>Perceptions of Campus Social Climate Among Racial and Ethnic Minority Students in Different Political Areas: A Multi-Institutional Analysis</td>
<td>Size Distribution of Nicotine Aerosol Particles Produced Using a Vibrating Mesh Nebulizer</td>
<td>Employment Law: Antidiscrimination and Privacy Regulations Related to Genetic Information</td>
<td>Experience is the Teacher of All Things: Examining the Connection between University Experiences and an Educator’s First Year in the Classroom</td>
</tr>
<tr>
<td></td>
<td>Maya Black</td>
<td>Alec Gafa</td>
<td>Ethan Hicks</td>
<td>Madeline Rhea</td>
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<td>College of Science</td>
<td>College of Health &amp; Human Sciences</td>
<td>College of Engineering</td>
<td>College of Education</td>
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<td>Interdisciplinary Research Selection</td>
<td>Honors College</td>
<td>Apollo in the Archives</td>
</tr>
<tr>
<td>3:20</td>
<td>Puzzle Theory: The Successful Puzzle Narrative in Detective Fiction &amp; Gaming</td>
<td>Catalyzing Change in the Energy Field</td>
<td>Employment Law: The Cost of Economic Gain</td>
<td>Food Safety Education Among Health Professionals in China and Peru</td>
</tr>
<tr>
<td></td>
<td>Zoe Franznick</td>
<td>Ethan Edwards</td>
<td>Samantha Kannmacher</td>
<td>Food Safety Education Among Health Professionals in China and Peru</td>
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<td>Archival Research Selection</td>
<td>Honors College</td>
<td>Interdisciplinary Research Selection</td>
<td>College of Liberal Arts</td>
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<tr>
<td></td>
<td>Amanda Warnock</td>
<td>Amanda Graboski</td>
<td>Han Chen</td>
<td>Alice Ikuru</td>
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<td>College of Health &amp; Human Sciences</td>
<td>Interdisciplinary Research Selection</td>
<td>Archival Research Selection</td>
<td>Apollo in the Archives</td>
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</tbody>
</table>

Archival research and "Apollo in the Archives" selections determined by the Purdue Archives & Special Collections. Interdisciplinary research selections determined by Purdue University Libraries & School of Information Studies.
Undergraduate Research Conference
Poster Symposium :: April 9, 2019

**MORNING SESSION**
9:00AM-11:30AM

South Ballroom

- Student Registration
- Engineering
- Health & Human Sciences
- Liberal Arts
- Agriculture
- Education

North Ballroom

- Pharmacy
- Science
- Polytechnic Institute
- Krannert

**AFTERNOON SESSION**
1:00PM-3:30PM

South Ballroom

- Student Registration
- Engineering
- Health & Human Sciences
- Liberal Arts
- Agriculture
- Education

North Ballroom

- Pharmacy
- Science
- Polytechnic Institute
- Vet Med
- Expl. Studies
- Krannert
<table>
<thead>
<tr>
<th>Time</th>
<th>Poster Title</th>
<th>Mentor(s)</th>
<th>Mentors:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00am</td>
<td>Andrew Ahlersmeyer</td>
<td>Timothy Baker, Bruce Erickson</td>
<td></td>
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<tr>
<td>9:15am</td>
<td>Juan Archila</td>
<td>Yaohua Feng, Tressie E Barret</td>
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<tr>
<td>9:30am</td>
<td>Nicole Brockway</td>
<td>Megan R. LaFollette, Brianna N. Gaskill</td>
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<tr>
<td>9:45am</td>
<td>Megan Brown</td>
<td>Theresa Casey</td>
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<tr>
<td>10:00am</td>
<td>Juliana Brustolin</td>
<td>Krishna Nemali</td>
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<tr>
<td>10:15am</td>
<td>Gabrielle Buck</td>
<td>Joseph Lynch, Natalia Dudareva</td>
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<tr>
<td>10:30am</td>
<td>MaryClaire Chamberlain</td>
<td>Lisa Mauer</td>
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<tr>
<td>10:45am</td>
<td>Joanna Claudy</td>
<td>Allan Schinckel</td>
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<tr>
<td>11:00am</td>
<td>Justin Coutel</td>
<td>Michael R. Ladisch</td>
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<tr>
<td>11:15am</td>
<td>Nathania Dianda</td>
<td>Tahrima Binte Rouf, Jozef Kokini</td>
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<tr>
<td>11:30am</td>
<td>Kate Eastman</td>
<td>Brian Dilkes</td>
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<tr>
<td>11:45am</td>
<td>Ayla Grilly</td>
<td>Emily Usher</td>
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<tr>
<td>12:00pm</td>
<td>Brianna Lammers</td>
<td>B. Allen Talbert</td>
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<tr>
<td>12:15pm</td>
<td>Megan Li</td>
<td>Junyu Lu</td>
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<tr>
<td>12:30pm</td>
<td>Michelle Lockhart</td>
<td>Aaron Thompson</td>
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<tr>
<td>12:45pm</td>
<td>Jackson McGee</td>
<td>Aaron Thompson</td>
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<tr>
<td>1:00pm</td>
<td>Emily Musenbrock</td>
<td>Laura Bowley, John Dunning</td>
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<tr>
<td>1:15pm</td>
<td>Christina Mussmann</td>
<td>Lisa Mauer</td>
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<tr>
<td>1:30pm</td>
<td>Stephanie Orr</td>
<td>Aaron Thompson</td>
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<td>1:45pm</td>
<td>Ana Pascual-Garrigos</td>
<td>Trevor Boram, Jeremy Lohman</td>
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<tr>
<td>2:00pm</td>
<td>Megan Riley</td>
<td>Megan LaFollette, Brianna Gaskill</td>
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<tr>
<td>2:15pm</td>
<td>Morgan Ritzi</td>
<td>Gordon McNickle</td>
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<td>2:30pm</td>
<td>Tucker Rose</td>
<td>Aaron Thompson</td>
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<tr>
<td>2:45pm</td>
<td>Beenah Shokouhzadeh</td>
<td>Megan LaFollette, Brianna Gaskill</td>
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<tr>
<td>3:00pm</td>
<td>Samantha Smock</td>
<td>Patrick Zollner, Alexander Cohen</td>
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<tr>
<td>3:15pm</td>
<td>Baishuai Sun</td>
<td>Aswathy Chandran, Chris Rochet</td>
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<tr>
<td>3:30pm</td>
<td>Yoong Sin Tong</td>
<td>Aaron Thompson</td>
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<td>3:45pm</td>
<td>Jose Isaac Vargas</td>
<td>Timothy Johnson</td>
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<tr>
<td>4:00pm</td>
<td>Jose Enrique Velasco Ortiz</td>
<td>Ariana Torres</td>
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<tr>
<td>4:15pm</td>
<td>Emma Wade</td>
<td>Emily Usher</td>
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<tr>
<td>4:30pm</td>
<td>Nathan Watervoort</td>
<td>Jody Banks</td>
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<tr>
<td>4:45pm</td>
<td>Grace Wernert</td>
<td>Theresa Casey, Aridany Suarez-Trujillo</td>
<td></td>
</tr>
</tbody>
</table>
College of Education

34a Maya Cameron, Costa James, Laura Duke
Mentor: P. Youll Mantzicopoulos-James

35a Daniel Krause
Mentor: Manushag Powell

36a Jason Maynard
Mentor: Elizabeth Hoffman

37a Cayla Yannuzzi, Kailey Cerefin
Mentor: Mandy Rispoli

College of Engineering

38a Abhimanyu Agarwal, McKenzie Elliot, Ayyub Jose, Vishal Meyyappan
Mentor: Barrett Robinson

39a Lucas Allegretto
Mentor: Thomas Siegmund

40a Zachary Beyer
Mentor: Jennifer DeBoer, Claudio Freitas

41a Allison Biddinger
Mentor: Linda Haynes

42a Romita Biswas, Cassidy Friedrich, Yug Rao, Aditya Chakraborty
Mentors: Riho-Teng Wu, Mohammad Reza Jahnsha

44a Gowd Chagi, Xi Wu
Mentors: Baekdu Choi, Jan Allebach

45a Rohit Chatterjee
Mentors: Kevin Solomon, Mrugesh Parasa

46a Hao Chen, Yining Huang
Mentors: David Ebert, Morteza Karimzadeh, Jieqiong Zhao

47a Shivam Duhan, Chengming Zhang, Wenyu Jing, Mingqi Li
Mentor: Guang Lin

48a Kaylee Ecker, Albert Derek Lee
Mentor: Jackie S. Cha

49a Elliot Edmunds, Mithuna Thottethodi
Mentor: Mithuna Thottethodi

50a Nick Eliopoulos
Mentors: Yung-Hsiang Lu, Kevin Woeste

51a Marco Antonio Garcia, Luke Kok, Luis Materon Botelho, Xianmeng Zhang, Ruth Zhong
Mentors: Mark Johnson, Matthew Swabey

52a Lakshya Goyal, Roopasree Naidu, Youngsik Yoon
Mentors: Yung-Hsiang Lu, Shuo-Han Chen

53a Emily Haluschak
Mentors: Tamara J. Moore, Kristina Tank

54a Jacob Harmon, Li Yan Tan, Jack Hyslop, Isha Ghodgaonkar
Mentors: Ryan Dailey, Yung-Hsiang Lu

55a Yuta Hoashi
Mentors: Byung-Cheol Min, Wonse Jo

56a Andrew Jaseckas, Hussni Mohd Zakir, Jeemin Kim, Mimansa Verma, Nan Jia, Dotun Akinnola, Kubiay Sahin
Mentors: Carla Zoltowski, Edward Delp

57a Sanna Kapoor, Joshua Oderkirk, Matthew Olinde, Aditya Sundaram
Mentors: Jeffery Gray

58a Mari Leland, Molly Carroll
Mentors: Gabriel Vargas

59a Raymond Li, Jun Min Ahn, Zachary Esteron, Qiyin Hong
Mentors: Guang Lin

60a Christina Lo, David Chen
Mentor: Jared Covert

61a Jessica Ma, Aditi Acharya
Mentors: Craig Goergen, Hamna Qureshi, Brett Bosinski, George Wodicka, David Reuter

62a Ashley Maddock, Sean Hwang, Pratik Bansal, Dharan Ramdoss, Somesh Dube
Mentor: Samuel Midkiff

63a Vadim Nikiforov, Chan Weng Yan
Mentors: Mark Johnson, Timothy Rogers

64a Neal Ottinger
Mentor: John Byrnes

65a Tikhon Pachin, Chris Jones, Meenakshi Pavithran, Meron Midksa
Mentor: Robin Barrett

66a Ethan Pappas
Mentor: Elsje Pienaar

67a Akshay Rao
Mentors: David Warsinger, Abhimanyu Das

◊ = Uses Archival Material  ‡ = Interdisciplinary Research Project  ■ = Honors College Student Researcher
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<tr>
<th>Page</th>
<th>Name and Mentors</th>
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| 68a  | Lanqing Zhao, Chieh-En Li  
Mentors: Jan Allebach, Shaoyuan Xu |
| 69a  | Benjamin Rentz  
Mentor: G.V. Reklaitis |
| 70a  | Joseph Sawyer  
Mentor: Thomas Siegmund |
| 71a  | Stephanie Schiavo, Samantha Dykhuis,  
Avalin Senefeld  
Mentors: Brandon Boor, Danielle Wagner |
| 72a  | Corren Scott  
Mentors: Yu-Hsuan Lee, Michael Harris |
| 73a  | Andrew Shen, Yoon Kim, Yi Xie, Nick Elías,  
Josh Chang, Zijun Lin  
Mentors: Yung-Hsiang Lu, Guofan Shao |
| 74a  | Arvind Sundaram  
Mentors: Ahmed Hassanein, Jitendra Tripathi |
| 75a  | Rachel Susler  
Mentors: Michael Harris, Sue Loesch-Fries |
| 76a  | Dwi Sutan,  
Mentors: Rakesh Agrawal, Swapnil Deshmukh; Ryan Ellis |
| 78a  | Andrew Ulmer, Zohar Kapach, Daniel Merrick, Karthik Maiya, Abhay Sasidharan,  
Arshad Alikhan, David Dang  
Mentor: Yung-Hsiang Lu |
| 79a  | Aniruddh Vegesana, Kaiwen Yu  
Mentor: Yung-Hsiang Lu |
| 80a  | Catherine Weaver  
Mentor: Neera Jain |
| 81a  | Jiaxing Yang, Yi-shan Lin, David Ebert  
Mentor: Lin Yi-Shan |
| 82a  | Douglas Yu; Devansh Rathi  
Mentors: Zhi Li, Jan Allebach |
| 83a  | Ximeng Zhang, QianLi Ma  
Mentor: Mithuna S Thottethodi |
| 84a  | Guoyang Zhou, Hamed Asadi, Denny Yu  
Mentors: Denny Yu, Hamed Asadi |

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**College of Health & Human Sciences**

<table>
<thead>
<tr>
<th>Page</th>
<th>Name and Mentors</th>
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</thead>
</table>
| 85a  | Emily Adaniya  
Mentors: Wayne W. Campbell, Joshua L. Hudson |
| 86a  | Dina Al Ghabra, Alexis Morell, Tessa Garwood, Ellie Bonanno  
Mentors: Bridgette Tonnson, Wei Siong Neo |
| 87a  | Seema Al-Hiraki  
Mentors: Philip S. Low, Stewart Low |
| 88a  | Maha Ali, Ben Watson  
Mentors: Seema Mattoo, Erica Zbornik |
| 89a  | Hannah Baker, Meghan Mitoraj  
Mentor: Elliot Friedman |
| 90a  | Kelsie Basile, Adria Diacono, Camille Goodwyn, Sarah Kincade, Kaylee McCracken  
Mentors: Andrea DeMaria, Jaziel Ramos-Ortiz |
| 91a  | Timothy Becker  
Mentor: Shirley Reitdyk |
| 92a  | Margaret Becker  
Mentors: David Purpura, Ellen Litkowski |
| 93a  | Nudar Bhuiya  
Mentors: Jennifer Freeman, Jonathan Shannahnan |
| 94a  | Morgan Braden  
Mentor: Heather Leidy |
| 95a  | Lauren Brulinksi  
Mentor: Jennifer L. Freeman |
| 96a  | Cidney Colby  
Mentors: Laura Reese, Lauren Murfree |
| 97a  | Myia Dorsey, Rebecca Coan  
Mentor: Susan Swithers |
| 98a  | Sai Dwibhashyam  
Mentors: Wei Zheng, Luqing Liu |
| 99a  | Chandler Dykstra  
Mentor: Andrea DeMaria |
| 100a | Lexi Ferngren  
Mentor: Jonathan Shannahnan |
| 101a| Victoria Glass, Alexa Rozyczki  
Mentors: Ronnie Wilbur, Margaret Crabtree |

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◊ = Uses Archival Material  ‡ = Interdisciplinary Research Project  ■ = Honors College Student Researcher
Alexa Gordon, Alyssa Prohofsky
Mentors: Amanda Arnold, Laura Claxton

Heather Heyrman, Lois Carpenter, Madelyn Cruse, Megha Reddy
Mentors: Jaziel Ramos-Ortiz, Andrea DeMaria

Claire Hornsby
Mentor: Azza Ahmed

Claire Jackson
Mentors: Ellen Wells, Christelene Horton

Nicolette Kittrell
Mentors: Zoe Taylor, Nayantara Nair

Kaylee Mason, Alyson D’Eramo, Lesley Flores, Savannah Hottle
Mentors: Andrea DeMaria, Stephanie Meier

Katie Mason
Mentor: Erin Hennes

Riley McGuire, Cleveland Shields
Mentor: Cleveland Shields

Jade Meekin, Kennedy Skipper
Mentor: Libby Chemouski

Houston Meminger, Jadebrielle Bennesh
Mentors: Susan Sangha, Amy L. Brewster

Samantha Mitchell
Mentor: Georgia Malandraki

Ryan O’Connell
Mentors: Ellen Wells, Jennifer Freeman

Isabelle Olejniczak
Mentor: Uzay Emir

Kaushal Prasad, Alec Graff
Mentor: Jae Hong Park

Charles Price
Mentor: Jason Cannon

Meredith Robbins
Mentor: Ellen M. Wells

Alyssa Rosenorn, Kate Schrader
Mentor: Bridgette Tonnsen

Nathan Schaepfer
Mentor: Nana Gletsu-Miller

David Schena, Michelle Coverdale, James Nairne
Mentor: James Nairne

Courtney Sheffield
Mentor: Jason Harris

Beatrice Smith
Mentor: Alejandra Ortega

Faith Stirm
Mentor: Keith Stantz

Arlyne Vargas, Emily Reyes, Maesyn Poidomani
Mentor: Bridgette Tonnsen

Madison Wierenga
Mentor: Cordelia Running

Rachel Yuska
Mentor: Carlos Perez-Torres

Warisha Aslam
Mentor: Maren Linett

Nicole Blackburn
Mentors: Brian Kelly, Christie Sennott

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Mentor: Elizabeth Mercier

Aiden Colburn
Mentor: Nadia Brown

Sarah Coon
Mentor: Erik Otarola-Castillo

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Mentor: Derek Pacheco

Georgia Green
Mentor: Elizabeth Mercier

Sophia Holt-Wilson
Mentor: Erin Moodie

Xuan Hu
Mentor: Elena E Benedicto

Yiham Jia
Mentor: Ian Lindsay

Emily Jones
Mentor: Megha Anwer

Kaleigh Karageorge; Bailey Smith-Helman
Mentors: Laura Zanotti, Kim Suiseeya

Rachel King
Mentors: Sherylyn Briller, Elizabeth Briody

Jane Koch, Christopher Centrella
Mentors: Tatjana Williams, Aletha Stahl

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Mentor: David McElhattan

143a Emily Mast
Mentor: Allegra Smith

144a Alejandra May
Mentor: Erik Otarolla-Castillo

145a Grace Morris
Mentor: Renee Murray

146a Alexander Mullenix
Mentor: Chris Yeomans

147a Antonia Neckopulos
Mentor: Shaun Hughes

148a Megan Pentecost
Mentors: Ronnie Wilbur, Margaret Crabtree

149a Jessica Perkins
Mentors: Sammie Morris, Kendall Roark

150a Lauren Robbers
Mentors: Laura Zanotti, Kimberly Suiseeya

151a Ian Smith
Mentor: Alon Kantor

152a Evalyn Stow
Mentor: Erik Otárola-Castillo

153a Frankie Tao, Bri Meyer
Mentor: Kathleen Hickey

154a Tatum Theaman, Christina Strodel
Mentor: Silvia Mitchell

155a Courtney Thomas
Mentor: Amanda Veile

156a Isabelle Townsend
Mentor: Silvia Mitchell

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**College of Science**

160a Isabel Adarve
Mentors: Spencer Siddons, Catherine Searle

161a Zaid Al Haddadin
Mentors: Peristera Paschou, Apostolia Topaloudi

162a Kevin Altman
Mentors: Lynne Taylor, Dana Moseson

163a Nishit Banka
Mentor: Christopher Uyeda

164a Swaraj Bhaduri; Binoy Shah
Mentor: Dan Ferguson

165a Riley Borgard
Mentor: Tatsunari Watanabe

166a Jillian Bouck
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167a Marin Bray
Mentors: Spencer Siddons, Catherine Searle

168a Natalie Brejcha
Mentor: Jody Banks

169a Ian Bretz
Mentors: Jonathan Wilker

170a Sophia Brown
Mentors: Jason Hoverman, Wesley Flynn

171a Mariah Burgmeier, Spencer Siddons, Catherine Searle
Mentors: Spencer Siddons, Catherine Searle

172a Thomas Chen
Mentor: Nicolo Michelusi

173a Jairus Chittenden
Mentor: Stephen Russell

174a Maia Clare
Mentor: Matthew R. Olson

175a Rachel Collicott
Mentor: Emily Dykhuizen

176a Cyan Cosby, Shirisha Chittiboyina, Sophie Lelièvre
Mentors: Sophie Lelievre, Shirisha Chittiboyina

177a Patricia Covington
Mentor: Sharrin Vostral

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Mentor: Shirisha Chittiboyina

196a Saron Manikam Bhoopathy
Mentors: Daniel M. Suter, Aslihan Terzi

179a Brittany Farmer
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197a Zachary McGuire
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180a Chrishan Fernando, Youssef Hegazy, Sara Cloutier, Elizabeth Tran
Mentor: Elizabeth Tran

198a Abigail Mesfin, Andrea Kasinski
Mentor: Chennan Li

181a Rodrigo Ferreira
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199a Ayana Morris
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182a Alyssa Flint
Mentors: Peristera Paschou, Apostolia Topaloudi

199.5a Syed Mudabhir
Mentor: Euiwon Bae

183a Neta Friedberg
Mentor: Stanton B. Gelvin

200a‡ Alexis Musleh, Ignacio Camarillo, Rajeswari Sundararajan
Mentor: Lakshya Mittal

184a Mars Gao
Mentor: He Wang

201a Erin Paul
Mentors: Stephen Konieczny, Yi Yang

185a Abigail Gichaba
Mentors: Nicholas Noinaj, Robert Stephenson

202a David Prather
Mentors: Catherine Searle, Kacie Jonasen

186a Adam Guerin
Mentor: Srividya Iyer-Biswas

203a Vandana Reddy, Alexandra Stiftler
Mentor: Seeema Matteo

186.5a Ashlyn Heniff
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204a Logan Kulinski, Chaolun Shao, Anthony Niemiec, Amol Jha
Mentor: Gustavo Rodriguez-Rivera

187a Lucy Hilarides, Kasha Halbleib, Samuel Wernert
Mentor: Jason Ware

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188a Kiara Hughes
Mentor: Cleveland Shields

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Mentors: Jon Rienstra-Kiraco, Gudrun Schmidt

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Mentor: Christine Hrycyna

207a Andrew Rothwell
Mentor: John Sundquist

190a Hannah Jones
Mentors: Stephen Elliott; Kevin O’Connor

208a Eryn Sale
Mentor: William Cramer

191a Gwyrth Joseph, Korie McCrea, Emily Sanders, Melanie Martinez
Mentor: Kari Clase

209a Mollie Shinkle
Mentor: David Thompson

192a Sarah Komanapalli
Mentor: Catherine Hill

210a Jessica Stone
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193a Matthew Konkoly
Mentor: Sorin Adam Matei

211a Kayla Stratford
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194a Zhengming Li
Mentor: Shara L Vostral

212a Rachel Stucky
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195a‡ Ashlyn Lythgoe
Mentor: Michelle Hemler, Linda Prokopy

213a Haile Szilagyi
Mentor: Daniel Suter

195a‡ Dawn Tilley
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AFTERNOON SESSION POSTER ABSTRACTS
1:00pm-3:30pm

College of Agriculture

1b Benjamin Anderson
   Mentors: Vikki Weake, Eliana Torres-Zelada

2b Katelyn Bormett, Madeline O’Neill, Misbah Chappar, Cindy Jiang
   Mentors: Kari Clase, Ikenna Okekeogbu

3b Rebecca Carr
   Mentor: Luis Escobar

4b Janice Chan
   Mentor: Abigail Engelberth

5b Christine Charles
   Mentor: Eileen Kladivko

6b Abigail Clifford
   Mentors: Craig Goergen, Arvin Soepriatna

7b Julianne Dejoie, Sarah Liu, Ben Howard, Abby Murphy, Liam Johnson
   Mentors: Kari Clase, Ikenna Okekeogbu

8b Jennifer Fishburn
   Mentor: John Cavaletto

8.5a Qijue Chen
   Mentor: Sara McMillan

9b Kevin Fitzgerald
   Mentor: Kevin Solomon

10b Wenyi Fu
    Mentors: Qin Xu, Shusheng Wang

11b Bailey Goff
    Mentor: Kara Stewart

12b MaryKate Harrod
    Mentor: Paul Ebner

13b Makenna Houston
    Mentors: Danny Haelewaters, Catherine Aime

14b Juya Jeon, Mrugesh Parasa
    Mentors: Kevin Solomon, Mrugesh Krishna Parasa

15b Archana Kikla
    Mentors: Kevin Solomon, Kok Zhi Lee

16b Eung Baek kim, Eunhui Yoo, Mai Liu, Chao Fu, Yejin Jang
    Mentor: Kari Clase

17b Danielle Klawitter
    Mentors: Michael Mashtare, Rooney Kim Lazcano

18b Emma Lietzke, Shruthi Garimella, Bach Vu, Davide Delisi, Britney Mavrenovic
    Mentor: Kari Clase

19b Jianheng Ling
    Mentors: Jeremy Lohman, Aaron Benjamin

20b William Maniscalco
    Mentor: Brianna N. Gaskill

21b Marina Mehling
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22b Edward Moncada
    Mentor: Lavanya Reddivari

23b Joshua Randall
    Mentor: Scott McAdam

24b Stephen Schwartz
    Mentor: Shalamar Armstrong

25b Robert Shrote
    Mentors: Mohsen Mohammadi, Xiangjun Zhou

26b Alexis Sosa
    Mentor: Landon Jones

27b Claire Stamper
    Mentors: Vikki Weake, Spencer Escobedo

28b Ashwin Sunderraj
    Mentor: Mathew Tantama

29b Lina Trigg, Rachel Damge, Estefania Martinez, Jenna Ischinger
    Mentor: Kari L. Clase

30b Kess Turner, Serena Birdinc, Gabrielle Selvia, Lauren Oparah
    Mentor: Kari Clase

31b Quin Waterbury
    Mentors: Laura Bowers, Audrey Goldbaum

32b Erin Will
    Mentors: Brad Kim, Jacob Tuell

33b Ryan Wollensak, Kylie Snyder, Alex Murfee
    Mentor: Kari Clase

34b Maiqi Zhang
    Mentor: Amanda Limiac

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35b Neil Zhao, Julio San Martin, Matt Jaeger, Alex Harris  
Mentor: Kari L. Clase

36b Daniel Zuercher  
Mentor: Aaron Thompson

37b Julie Kim, Madeline Gavin  
Mentors: Youli Mantzicopolous

38b Jane Sherfey  
Mentors: Panayoty Mantzicopoulo-James

**College of Education**

39b Fares Alqassim  
Mentor: Morteza Karimzadeh

40b Zeinab Aly, Molly Cromer, Alison Jeffries  
Mentors: Ulrike Dydak, Eric Cameron

41b Christopher Arnold, Diana DiPretoro, Michal Chrapek  
Mentors: Michael Mashtare

42b Mridul Arora, Peter Huang  
Mentor: Yung-Hsiang Lu

43b Maizey Benner  
Mentor: Daniel Ferguson

44b Andrew Beutler, Noah Curran, Ruihong Lyu, Weiqing Huang, Yuting Guo  
Mentors: Yung-Hsiang Lu, Ryan Daily

45b Evan Bouillet, Aryan Tyagi, Shuhao Xing, Faisal Aljishi, Qi Dai, Ayomide Akande  
Mentors: Edward Delp, Carla Zolotowski

46b Kacie Bradfish  
Mentor: Stephen P. Beaudoin

47b Rachel Casetti  
Mentors: Clarence Maybee, Andrew Zehner

48b Erica Chadwell, Ian Carr, Labonno Zaman  
Mentor: Paul Parsons

49b Haozhi Chen  
Mentor: Denny Yu

50b Songlin Chen, Yidi Du  
Mentors: James G. Ogg, Aaron Ault

**College of Engineering**

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40b Zeinab Aly, Molly Cromer, Alison Jeffries  
Mentors: Ulrike Dydak, Eric Cameron

41b Christopher Arnold, Diana DiPretoro, Michal Chrapek  
Mentors: Michael Mashtare

42b Mridul Arora, Peter Huang  
Mentor: Yung-Hsiang Lu

43b Maizey Benner  
Mentor: Daniel Ferguson

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Mentors: Yung-Hsiang Lu, Ryan Daily

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Mentor: Paul Parsons

49b Haozhi Chen  
Mentor: Denny Yu

50b Songlin Chen, Yidi Du  
Mentors: James G. Ogg, Aaron Ault

51b Ivy Crank, Trang Dieu, Elizabeth Tedder, Brittany Reyes  
Mentor: Bruce Applegate

52b Daniel Espinoza  
Mentor: Marika Santagata

53b Nathan Everett, Connor Jones, Bridgette Burke, YinTae Wyss  
Mentor: Kari Clase

54b Rachel Harmon, Hamed Asadi  
Mentors: Hamed Asadi, Denny Yu

55b Gore Kao, Xiao Hu, Haobo Wang, Pranjali Raturi  
Mentors: Yung-Hsiang Lu, Ming Yin

56b Seo Young Kim, Menna Hassan, Fischer Bordwell, Arjun Balasubramania, Jiahao Sun  
Mentor: Yung-Hsiang Lu

57b Deepa Korani  
Mentor: Md Nuruddin

58b Sidharth Krishnamoorthi  
Mentors: Xinghang Zhang, Ruizhe Su

59b Megan Lyons  
Mentors: Linsey Steege, Denny Yu

60b Kalyan Mada  
Mentors: David Ebert, Morteza Karimzadeh

61b Alexandra Gray, Cecelia Maginot, Kelsey Vought  
Mentors: Dulcy Abraham, Srinath Kumar

62b Joshua Majors  
Mentor: Yung-Hsiang Lu

63b Hannah McGinness  
Mentors: Rajamani Gounder, Elizabeth Bickel

64b Daniel Merrick, Karthik Maiya, Kirthi Sivamani, Rui Wang  
Mentor: Yung-Hsiang Lu

65b Daniel Meulbroek  
Mentor: Dan Ferguson

66b Julia Meyer  
Mentor: Ivan Christov

67b Abhipri Mishra  
Mentor: Mathew Tantama

68b Laura Mudge, Fajar Ausri  
Mentors: Denny Yu, A. J. Schwichtenberg

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Mentors: Kari Clase, Stephen Miloro

70b Molly Newquist, Charles Guinn
Mentors: Michael Manfra, James Nakamura

71b ‡ Andrew Nguyen
Mentor: James L. Garrison

72b Quynh Nguyen, Kiersten Troyer, Ivy Crank, Nikita Patil
Mentor: Kari Clase

73b Lauren Novak
Mentor: Kari Clase

74b Rohan Prabhu, Moiz Rasheed, Sumati Gupta, Ethan Glaser, Juanda He, Ian Haggerty, Paul Chang, Ashita Bawankule
Mentors: Yung-Hsiang Lu, David Barbarash

75b Raghu Prakash, Siddharth Inani, Yuichiro Suzuki, Krister Ulvog, Fiyi Ogunkoya
Mentor: Barret Robinson

76b Unnati Pulla, Trisha Zalani, Quang Nguyen, Binoy Shah
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77b Yaodong Shen, Luke Thomae, Jongwon Min, Young Sun Kim, Hojung Ryoo, Brandon Skiles
Mentor: Samuel P Midkiff

78b Elizabeth Shu
Mentors: Daniel Ferguson, Matthew Ohland

79b Wil Stuckey, Nicholas Tomlin, Tom Cody, Hamza Tanzeem, Nate Eckhart, Dan Irby, Rochan Nachiketa Yakkundi, Shynaggs Mengibay, Sayed Hashem Had Alaali
Mentors: Hossein EbrahimiNejad, Catherine E. Brawner

80b Brooke Walsh, Kevin Phelps, Peymon Dalirifar, Nazura Ramli
Mentor: Mohammad Reza Jahanshahi

81b Jiaxin Wang, Lalit Maharjan, Zhan Gao, Brian Cardon, Jia Cheoh, Koustav Samaddar, Zhibo Hou
Mentor: Daniel Ferguson

82b Yuanhao Wang, Yunlei Yan, Yuan Liu
Mentor: Guang Lin

83b Feidi Xie
Mentor: Guizhen Wang

84b ‡ Yuxin Zhang, Karan Oberoi, Songlin Chen, Yidi Du, Charles Franchville
Mentor: Andy Khan

85b Zoe Carlson-Stadler
Mentor: Amy Brewer

86b Shelby Claffin
Mentor: Brandon Keehn

87b Jacob Cole
Mentors: Margo Monteith, Laura Hildebrand

88b McKenna Deckard
Mentor: Heather Eicher-Miller

89b ‡ Soyl Enkh-Amgalan
Mentor: Vetria L. Byrd

90b Shuyu Gao, Emily Rolan, Nayantara Nair, Kristine Marceau
Mentors: Kristine Marceau, Emily Rolan

91b Yuankai Ge
Mentor: Jiong Sun

92b Naomi German
Mentors: Jason Harris, Marcia Robinson

93b Katherine Goulden
Mentor: Tom Redick

94b Tiarra Harney
Mentor: Sulma Mohammed

95b Chace Henning
Mentors: Mathew Tantama, Emily Haynes

96b Courtney Isgett
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97b Kathryn Jamieson, Emily Ball, Scotlyn Sunkel
Mentors: Andrea DeMaria, Stephanie Meier

98b Derek Kahng
Mentor: Viola Zheng

99b Jim Kanani
Mentor: Yumary Ruiz

100b Christina Kaucic
Mentors: Jennifer Freeman, Keturah Kiper

101b ‡ Emma Kaye
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102b Kayla Kollmann, Joey Shin, Liberty-Ann Shelton, Patricia Aguilar
Mentors: Nicole Wittuhrn, Bridgette Tonnsen

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104b Maya Kumar
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105b Zhengliang Lan
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107b Zian Liu
Mentors: Michael Wendt, Saeed Akhand

108b Andi Long
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109b Christine Medin
Mentors: Stephen Lindemann, Riya Thakkar

110b Leroy Medrano
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112b Srinithya Nagarajan
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113b Claudia Nieves
Mentors: Jason Canon, Shreesh Sammi

114b Huong Pham
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115b Alyssa Pierotti, Jacob Herr, Sarah Cook
Mentors: Laura J. Claxton, Lucas J. Rooney

116b Elizabeth Roach
Mentor: Carlos Perez Torres

117b Carissa Serratos
Mentors: A.J. Schwitchenberg, Ashleigh Kellerman

118b Emily Stahly
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119b Amber Swint, Samantha Howell, Breanna Martin-O'Dell
Mentors: Taylor Halligan, Bridgette Tonnsen

120b Lucas Turner
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121b Emma Wallens
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122b Kexin Wang
Mentors: Xintan Lehto, Alei Fan, Lihan Huang

123b Carlie Wilson
Mentors: Aura Ankita Mishra, Sharon Christ

124b Frank Yanko, Chloe Rivers
Mentors: Aaron Bowman, Rekha Balachandran

125b Yichuan Yin
Mentor: Kipling D. Williams

College of Liberal Arts

126b Manuel Arauz
Mentor: Tara Johnson

128b Matthew Ball
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129b Ellen Deemer
Mentor: Trenton Mize

130b Gabe Cassala
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131b Alicia Geoffray
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132b Amanda Gozner, Corissa Meyer
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135b Navni Kharde, Ellen Deemer
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137b Rachel King
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138b Grace Long
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139b Joshua Martin
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140b Emily Mast, Brendan Robb, Ashlie Clark, Korbyn Torres
Mentor: Jennifer Bay

141b Sarah Merryman
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143b Brenae Newhard
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144b L. Nikolai
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145b Isabelle Ortt
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146b Alexandra Paoli
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148b Scott Straight, Khalil Williams
Mentor: Stacey Holden

149b Jay Tockstein
Mentor: Elizabeth E. Mercier

150b Nicole Williams
Mentor: Jennifer Bay

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161b Jacob Brejicha
Mentor: Jianghanyang Li

162b Sara Carpenter
Mentors: Dennis Minchella, Jonathon Vannatta

163b Kaitlyn Cooper
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164b Emre Coskun
Mentors: Yuk Fai Leung, Logan Ganzen

165b Taryn Coyle
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166b Elisabeth DeMarco
Mentor: Estuardo Robles

167b Tong Ding
Mentors: Jingwei Hu, Math department

168b Jeffrey Dorsch, Vincent Phillips, Claudia Li
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169b Jocelyn Elgin
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170b Benjamin Flueckgier
Mentors: Kavita Shah, Hanan Haymour

171b Emily Godollei
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172b Anna Hallowell, Brent Bachman
Mentors: Kimberly Kinzig, Elizabeth Sahagun

173b James Haydock
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174b Brody Connor
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175b Bode Hoover
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176b Charlotte Jaeger
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177b Seth Keeling
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178b Kynnedy Kelly
Mentor: Thomas Walter

179b Chinyere Kemet
Mentor: Tiffany Lyle

180b Amanda Komasinski
Mentors: Jason Hoverman, Turner DeBlieux

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182b Alyssa Lambrecht
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183b ‡ Jayla Langford
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184b Gabrielle Lorenz
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185b ■ Melanie Martinez
Mentors: Peristera Paschou, Apostolia Topaloudi

186b Kiersten Nelson
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187b ‡ Paula Pandolfi, Mikaela Hand, Avantika Bhardwaj, Sharonzuz Torres
Mentor: Kari Lynn Clase

188b ‡ Paula Pandolfi
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189b Alexa Parker
Mentor: David A. Sanders

190b Alex Piroozi
Mentor: Christine Hrycyna

191b Alexis Pittman
Mentor: Trevor Stamper

192b Sasmita Rout
Mentors: Philip Low, Fenghua Zhang

193b Emily Sanders
Mentor: Sharra L Vostral

194b ■ Ruhani Sansoya
Mentor: Panae Noomuna

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Mentor: Ernest Agee

196b Hannah Smith
Mentors: Marisol Sepulveda, Michael Iacchetta

197b Xinyi Tan
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198b Deepthi Thadasina
Mentor: Jessica Huber

199b ■ Sarah Varney
Mentor: Mathew Tantama

200b Lauren Warner
Mentor: Robin Tanamachi

201b Darah Waskin
Mentor: Joanna K Hodges

202b ■ Samuel Westendorf
Mentor: Dennis P. Cladis

203b Hunter Wieczorek
Mentor: Richard Kuhn

204b ‡ Andrew Wildridge, Andrew Spring, Eshwar Puvvada, Karl Hauser, Ryan Baker, Tristan Schefke
Mentors: Andreas Jung, Souvik Das

205b Justin Shing Him Wong
Mentors: George Agbeworvi, Corey Thompson

206b Jessyca Woods, Lawrence Fung, Jonathan Wilker
Mentor: Gudrun Schmidt

207b ‡ Jiexiong Xu, Zixin Xiong, Andrew Wildridge, Ethan Zweig
Mentor: Andreas Jung

208b ■ Zijie Zhou
Mentor: Jonathon Peterson

College of Veterinary Medicine

209b Colin Harris
Mentor: Laurent Couetil

College of Exploratory Studies

210b Rod Van Pelt, Tyler Lim
Mentor: Libby Chernouski

211b Rod Van Pelt
Mentor: Libby Chernouski

Krannert School of Management

212b Matthew Campbell
Mentor: Cliff Fisher

213b Kelsey Hoke
Mentor: Cara Putman

214b ■ Lindsey Prommer
Mentor: Melissa Swisher

◊ = Uses Archival Material  ‡ = Interdisciplinary Research Project  ■ = Honors College Student Researcher
Purdue Polytechnic Institute

215b  Daphne Fauber
    Mentor: Hsin-Yi Weng

216b  Anna-Nikol Georgiev, Kathryn Myers, Kierra Jammer, Morgan Callin, Taylor Sorrel
    Mentor: Kari Clase

217b  Qingyuan Hu, Alexander Mullenix, Christine Wang
    Mentor: Julia Rayz

218b  William Hubbard
    Mentor: Kereshma Afsari

219b  Renee Keilman
    Mentors: Lisa Bosman, Julius Keller

220b  Christopher Lacny
    Mentor: Jiansong Zhang

221b  Edith Mauro
    Mentor: Vetria L. Byrd

222b  Natalie McGuckin
    Mentor: Mark Daniel Ward

223b  Elizabeth McGuckin
    Mentor: Vetria L. Byrd

224b  Mohammad Javad Mirshojaeian Hosseini, Shih Hung
    Mentor: Robert Nawrocki

225b  Saw Yan Naung
    Mentor: Robert Nawrocki

226b  John Phan
    Mentors: Julia Taylor Rayz, Kanishka Misra

227b  William Rowe
    Mentor: Scott R Bartholomew

228b  Vanessa Santana
    Mentor: Scott R. Bartholomew

229b  Michael Staats, Maxwell Williams
    Mentor: Anthony Bushner

230b  Aaron Teo
    Mentors: Julius Keller, Flavio Mendonca

231b  Zach Vallow
    Mentor: Vetria L. Byrd

232b  Daniel Young
    Mentor: Lisa Bosman

233b  Qiuhan Zhang
    Mentor: Vetria L. Byrd

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Interdisciplinary research poster awards are chosen and presented by the Purdue University Libraries & School of Information Studies.
THEMATIC CATEGORIES’ TOP ABSTRACT

Life Sciences
*Directed Evolution of ASGARD, a Guide-Dependent Targeting Endonuclease*
by Kevin Fitzgerald (Poster #9b)

Social Sciences/Humanities
*Proximate Bodies and Social Landscapes: A Looking into the Immediate Connection of Social Media through Dance*
by Frankie Tao and Bri Meyer (Poster #153a)

Physical Sciences
*Development of a More Effective Approach to Analyze Nitrate Isotopes*
by Jacob Brejcha (Poster #161b)

Mathematics/Computational Sciences
*Cost-Effective Active Transfer Learning*
by Jacob Harmon, Li Yon Tan, Jack Hyslop, and Isha Ghodgaonkar (Poster #54a)

Innovative Technology/Entrepreneurship/Design
*Development of Pond Cleaning Unmanned Surface Vehicle (USV)*
by Yuta Hoashi (Poster #55a)

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