August 3, 2016

Dear Summer Research Conference Attendees,

Welcome to our Summer Research Conference. This is the culmination of the 2016 Summer Research Program, celebrating the exciting accomplishments of our students and their faculty mentors. This may be the students’ first experience presenting their scholarly work in a public setting, and it may be the result of years of effort. We are very proud of the work they have done, and hope that this experience will help set the stage for their life-long journeys as scholars and researchers.

For nearly three decades, Occidental has supported undergraduate research in all disciplines on campus: the arts, humanities, social sciences, and both the natural and physical sciences. The Summer Research Program has helped to place Oxy at the forefront of liberal arts colleges nationally.

Today, we encourage you to attend the presentations and visit the posters of students in various fields to fully realize the scope of the summer research program. Along the way, you may run into faculty, staff, students, and invited guests with whom you can share your experience.

Enjoy this special day!

Scott Bogue
Director, Sponsored and Undergraduate Research
Professor of Geology
Locations:

Registration and name tag distribution will be located in the Academic Quad near the Clapp Library/Academic Commons Main Entrance, #5 on the map.

Oral Presentations will be held in Fowler Hall, #3 on the map.

Poster Presentations will be held on the 3rd floor of the Clapp Library/Academic Commons, #5 on the map.

Lunch will be served in the Gresham Dining Hall in the Johnson Student Center and Freeman College Union, #15 on the map. (Please enter through Branca Patio.)
Occidental College
2016 Summer Undergraduate Research Conference
Schedule of Events ● August 3, 2016

8:00 AM       Poster set-up
               Library/Academic Commons, 3rd floor, "new" building side

8:30 AM       Registration and name badge pick-up
               Quad, tented table near Library/Academic Commons

9:00 AM       Oral Presentations, Session One
               Fowler Hall, Rooms 112, 201, 202, 209

9:50 AM       Oral Presentations, Session Two
               Fowler Hall, Rooms 112, 201, 202, 209

11:00 AM      Oral Presentations, Session Three
               Fowler Hall, Rooms 112, 201, 202, 209

12:00 NOON    Lunch
               Gresham Dining Room (please enter through Branca Patio)

1:30 PM       Poster Presentations, Session One
               Library/Academic Commons, 3rd floor, "new" building side

2:15 PM       Poster Presentations, Session Two
               Library/Academic Commons, 3rd floor, "new" building side

3:00 PM       Conference ends
Oral Presentations: Session 1 (9:00 - 9:45 AM)

Section 1A: Fowler 112
Session chair: Andrew Shtulman

9:00 Parent-Child Conversations About Food Product Choices
Ilana Share, Rosie Silber-Marker
Mentor: Andrew Shtulman, Cognitive Science and Psychology

9:20 Children’s differentiation of possibility and permissibility
Jennifer Hichar, Jessica Ingle
Mentor: Andrew Shtulman, Cognitive Science and Psychology

Section 1B: Fowler 201
Session chair: Chris Craney

9:00 TOPS Identity Project: Social Media as a Tool for Motivating STEM Aspirations
Mairin Murphy
Mentor: Chris Craney, Chemistry and Biochemistry

9:15 Investigating the carcinogenic liver fluke in Northeast Thailand
Emily Ong
Mentor: Chris Craney, Chemistry and Biochemistry

Section 1C: Fowler 202
Session chair: Jane Hong

9:00 Examining the Relationship between Facility Readiness and Facility Based Deliveries in Ghana
Zawadia LeFang
Mentor: Diana Ngo, Economics

9:15 Making Amends: How the Holocaust Shaped American Refugee Policy
Michael Zucker
Mentor: Jane Hong, History

9:30 The Aesthetics of Liberty and Freedom: Labor in Mexican and Soviet Propaganda
Samuel Astorga
Mentor: Alexandra Puerto, History
Oral Presentations: Session 1  (9:00 - 9:45 AM), cont.

Section 1D: Fowler 209
Session chair: Clair Morrissey

9:00  *From Labor Ethics to Research Ethics: Reframing the Discussion on Amazon's Mechanical Turk*
Myka Yamasaki
Mentor: Clair Morrissey, Philosophy

9:15  *Low-Wage Atlas*
Ashkan Mortazavi
Mentor: Virginia Parks, Urban and Environmental Policy

9:30  *Community-based Research in Nicaragua's Health Sector*
Brad Kawano
Mentor: Clair Morrissey, Philosophy

Oral Presentations: Session 2  (9:50 - 10:50 AM)

Section 2A: Fowler 112
Session chair: Julie Prebel

9:50  *Indiscrete Bodies: Towards new models of female subjectivity in abortion rhetoric from 2015 - 2016*
Gabrielle Seiwert
Mentor: Julie Prebel, Writing and Rhetoric

10:05  *Trade Finance During the Great Recession*
Harrison Luft
Mentor: Jesse Mora, Economics

10:20  *Gramsci in his Limits: The Symptoms of the Modern Prince*
Promise Li
Mentor: Warren Montag, English

10:35  *Does Federal Financial Aid Raise College Tuition?*
Trevor Osaki
Mentor: Robert Moore, Economics
Oral Presentations: Session 2  (9:50 - 10:50 AM), cont.

**Section 2B: Fowler 201**

Session chair: Damian Stocking

9:50  *An Ontological Enquiry into the Possibility of Free Beauty in the West*

**Spencer Thompson**
Mentor: Elmer Griffin, Critical Theory and Social Justice

10:05  *Disintegration of Subjectivity: A Close Reading of Euripides’ Medea*

**Anya Weis**
Mentor: Damian Stocking, Comparative Studies in Literature and Culture

10:20  *The Collapse of Bourgeois Conservation into Utilitarian Waste: Georges Bataille and Alternative Economies of Consumption*

**Timothy Lewis**
Mentor: Elmer Griffin, Critical Theory and Social Justice

10:35  *Embracing Finitude: Hölderlin’s Ode to Tragedy*

**Cassandra Guidice**
Mentor: Damian Stocking, Comparative Studies in Literature and Culture

**Section 2C: Fowler 202**

Session chair: George Schmiedeshoff

9:50  *Looking for the Invisible: A Search for Dark Matter*

**Ethan Heffernan**
*Calibration of the Drift-BDX Detector in Stanford Linear Accelerator*

**Nan Ma**
Joint mentor: Daniel Snowden-Ifft, Physics

10:10  *Influences of Deception: Examining Lie Aversion*

**Preston Harry**
Mentor: Brandon Lehr, Economics

10:25  *Racetrack Betting and the Favorite-Long Shot Bias*

**Samuel Cua**
Mentor: Brandon Lehr, Economics
Oral Presentations: Session 2  (9:50 - 10:50 AM), cont.

Section 2D: Fowler 209
Session chair: Aleksandra Sherman

9:50 *Take a Walk in Someone Else’s Shoes: Empathy’s Role in the Simulation and Prediction of Others’ Actions*
   Julia Hamilton
   Mentor: Aleksandra Sherman, Cognitive Science

10:05 *Assessing the efficiency level of health facilities in Ghana*
   Eva Yiyun Wang
   Mentor: Diana Ngo, Economics

10:20 *Logic and Language: Searching for an Empirically-Supported Theory of Vagueness*
   Jonathan Stoler
   Mentor: Carolyn Brighouse, Philosophy

10:35 *Bilingualism’s Effect on Morality in Barcelona, Spain*
   Alyssa Sanchez
   Mentor: Aleksandra Sherman, Cognitive Science

Oral Presentations: Session 3  (11:00 AM - 12:00 PM)

Section 3A: Fowler 112
Session chair: Marcella Raney

11:00 *Elementary School Playground Design: Impact on Future Collegiate Physical Activity Participation*
   Brachelle Nueku
   Mentor: Marcella Raney, Kinesiology

11:15 *Who owns the narrative in the movement for Black liberation at Occidental?*
   Olivia Davis
   Mentor: Donna Maeda, Critical Theory and Social Justice

11:30 *Violence Against Women in the Dominican Republic*
   Dayja Tillman
   Mentor: Jennifer Piscopo, Politics

11:45 *Addressing Community Health in Salta, Argentina: Services of Fundación Equinoterapia del Azul*
   Erin Van Zanten
   Mentor: Marcella Raney, Kinesiology
Oral Presentations: Session 3 (11:00 AM - 12:00 PM), cont.

Section 3B: Fowler 202
Session chair: Shanna Lorenz

11:00 Mola
Delarys Ramos Estrada
Mentor: Danzy Senna, English (Creative Writing)

11:15 Suppote i Kuttura-ta: Contemporary Chamorro Music and Language Preservation on the Island of Guam
Micah Garrido
Mentor: Shanna Lorenz, Music

11:30 Come Over for Chicken Soup: A Potluck and Play Reading of “This Is How the Pacheco Brothers Make Their Mama’s Chicken Soup” ** by Maricela Guardado
** This 1/2 hour presentation will include a staged reading of excerpts from the original play.
Maricela Guardado
Mentor: Sarah Kozinn, Theater

Section 3C: Fowler 209
Session chair: Jeffrey Cannon

11:00 Reductive Ketyl Radical Cyclizations in the Total Synthesis of the Plakortone Family of Natural Products
Nicholas Foy
Mentor: Jeffrey Cannon, Chemistry

11:15 Stereoselective Synthesis of Amino Acids Using the Ireland–Claisen Rearrangement
Natalie Dwulet
Mentor: Jeffrey Cannon, Chemistry

11:30 The Synthesis of Oncostemonols
Ed Sartor
Mentor: Jeffrey Cannon, Chemistry

LUNCHEON, GRESHAM DINING HALL -- 12 NOON - 1 PM
<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Presenter</th>
<th>Mentor(s)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Knocking out functionality of the microtubule-severing protein katanin in C. elegans neurons</td>
<td>Susan Burke</td>
<td>Renee Baran, Biology</td>
</tr>
<tr>
<td>2</td>
<td>Emotional Perception of Culture and Art</td>
<td>Lani Cupo</td>
<td>Aleksandra Sherman, Cognitive Science</td>
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<td>3</td>
<td>Characterizing the Function of the E2 ubiquitin-conjugating enzyme UBC-1 in the C. elegans nervous system</td>
<td>Bruno Alonso</td>
<td>Renee Baran, Biology</td>
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<td>4</td>
<td>Harmony of the Senses</td>
<td>Robert Jertberg</td>
<td>Carmel Levitan, Cognitive Science</td>
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<td>5</td>
<td>Habitat Preference of the California State Marine Fish</td>
<td>Grace Coogan</td>
<td>Daniel Pondella, Biology</td>
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<td>6</td>
<td>Conscious and Unconscious Processes in Human Fear Conditioning</td>
<td>Judy Lee</td>
<td>Anne Schell, Psychology</td>
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<td>7</td>
<td>Effects of El Niño on anchovy populations in San Diego Bay</td>
<td>Miranda Roethler</td>
<td>Daniel Pondella, Biology</td>
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<td>8</td>
<td>Conconscious and Unconscious Processes in Human Fear Conditioning</td>
<td>Della Tang</td>
<td>Anne Schell, Psychology</td>
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<td>9</td>
<td>Incorporating Model Selection in Predicting the Spread of Invasive Fungal Pathogen Batrachochytrium salamandrivoran</td>
<td>Tatum Katz</td>
<td>Amanda Zellmer, Biology</td>
</tr>
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<td>10</td>
<td>Implications of exercise for coping with stress in selectively-bred rats</td>
<td>Carolyn Marsh</td>
<td>Dale Chapman and Nancy Dess, Psychology</td>
</tr>
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<td>11</td>
<td>Potential species delimitation of Battrachoseps attenuatus</td>
<td>Grant Uba</td>
<td>Amanda Zellmer, Biology</td>
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<td>Poster Number</td>
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<td>12</td>
<td>Examining the role of palatability in the diet-stress relationship</td>
<td>Greta Conlon</td>
<td>(Mentors: Dale Chapman and Nancy Dess, Psychology)</td>
</tr>
<tr>
<td>13</td>
<td>Integrating Niche Modeling and eDNA to Detect Cryptic Endangered Haliotis</td>
<td>Atif Malik</td>
<td>(Mentors: John McCormack and Amanda Zellmer, Biology)</td>
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<td>14</td>
<td>Wage Theft in Pasadena</td>
<td>Karen Oliva</td>
<td>(Mentor: Peter Dreier, Urban and Environmental Policy)</td>
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<td>15</td>
<td>The Link Between FASD and Epilepsy</td>
<td>Peter Laminette</td>
<td>(Mentor: Kerry Thompson, Biology)</td>
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<tr>
<td>16</td>
<td>Wage Theft in Pasadena</td>
<td>Jaquelyne Rodriguez</td>
<td>(Mentor: Peter Dreier, Urban and Environmental Policy)</td>
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<td>17</td>
<td>Emerging adults' feelings of loneliness in college</td>
<td>Jessica Wilcox</td>
<td>(Mentor: Andrea Hopmeyer, Psychology)</td>
</tr>
<tr>
<td>18</td>
<td>Historical events and Prussian bond prices, 1808-1830</td>
<td>Maile Kawasaki</td>
<td>(Mentor: Kirsten Wandschneider, Economics)</td>
</tr>
<tr>
<td>19</td>
<td>Life on the High School Totem Pole</td>
<td>Claudia Lechner</td>
<td>(Mentor: Andrea Hopmeyer, Psychology)</td>
</tr>
<tr>
<td>20</td>
<td>Integrating Diversity in STEM at Occidental College</td>
<td>Marjorie Morales</td>
<td>(Mentors: Aleksandra Sherman, Cognitive Science and Amanda Zellmer, Biology)</td>
</tr>
<tr>
<td>21</td>
<td>College Crowd Affiliation, Risk Behavior and Socio-Emotional Well-Being</td>
<td>Tal Medovoy</td>
<td>(Mentor: Andrea Hopmeyer, Psychology)</td>
</tr>
<tr>
<td>23</td>
<td>Selection of Complex Foods in High and Low Saccharine-Consuming Rats</td>
<td>Juliette Beighle</td>
<td>(Mentors: Dale Chapman and Nancy Dess, Psychology)</td>
</tr>
<tr>
<td>24</td>
<td>Experimental Manipulation of Gut Microbial Communities Within Cephaloleia Beetles of Costa Rica</td>
<td>Chelsea Blankenchip</td>
<td>(Mentor: Shana Goffredi, Biology)</td>
</tr>
</tbody>
</table>

**POSTER SESSIONS**

SESSION 1: 1:30 PM - 2:15 PM (ODD NUMBERS)
SESSION 2: 2:15 PM - 3:00 PM (EVEN NUMBERS)
<table>
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<tr>
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<td>25</td>
<td>Organization of Eating in Female Rats Selectively Bred on a Sweetener Phenotype</td>
<td>Gabriel Flores</td>
<td>Nancy Dess, Psychology</td>
</tr>
<tr>
<td>26</td>
<td>Investigation of Immune Responses in Horses Infected with Corynebacterium pseudotuberculosis</td>
<td>Connie Li</td>
<td>Karen Molinder and Roberta Pollock, Biology</td>
</tr>
<tr>
<td>27</td>
<td>Targeting Topoisomerase 1 SUMOylation in cancer therapy</td>
<td>Isela Hernandez</td>
<td>Yilun Liu, City of Hope: Cancer Genetics &amp; Epigenics</td>
</tr>
<tr>
<td>28</td>
<td>Immune Responses in Horses Infected with Corynebacterium Pseudotuberculosis</td>
<td>Jasmine Chen</td>
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</tr>
<tr>
<td>29</td>
<td>Probing Cytochrome P450 Bioelectrocatalysis with Redox Titrations</td>
<td>Ariana Rowshan</td>
<td>Andrew Udit, Chemistry</td>
</tr>
<tr>
<td>30</td>
<td>Purification and Analysis of Corynebacterium pseudotuberculosis' major exotoxin: Phospholipase D</td>
<td>Jose Campuzano</td>
<td>Karen Molinder, Biology</td>
</tr>
<tr>
<td>31</td>
<td>The Cosman Shell Collection Revealed: Analysis of the Hawaiian Gastropod Dataset</td>
<td>Collin Mostoufi</td>
<td>Joseph Schulz, Biology</td>
</tr>
<tr>
<td>32</td>
<td>Colorimetric detection of fluoride via gold nanoparticle aggregation</td>
<td>Tevor Nash</td>
<td>Eileen Spain, Chemistry</td>
</tr>
<tr>
<td>33</td>
<td>Cobaltocenium Derivatives as P450 Mediators for Synthesis of Fine Chemicals and Pharmaceuticals</td>
<td>Colin McCully</td>
<td>Andrew Udit, Chemistry</td>
</tr>
<tr>
<td>34</td>
<td>The Role of Indole in Biofilm Formation and Predator-Prey Interaction in Bdellovibrio bacteriovorus and Escherichia coli</td>
<td>Tess Arrighi</td>
<td>Eileen Spain, Chemistry</td>
</tr>
<tr>
<td>35</td>
<td>Enantioselective Total Synthesis of Isofagomine</td>
<td>Scott Niman</td>
<td>Derek Ross, Chemistry</td>
</tr>
</tbody>
</table>
Reversing heparin-induced anticoagulation using a virus-like nanoparticle
Justin Choi (Mentor: Andrew Udit, Chemistry)

Enantioselective Synthesis of DAB-1
He Isaac Wang (Mentor: Derek Ross, Chemistry)

Indole’s role in the cell interactions of E. coli and Bdellovibrio bacteriovorus in unique biofilm growth
Angel Leus (Mentor: Eileen Spain, Chemistry)

Docking, modeling, and sequencing of acid sphingomyelinase in pursuit of therapeutics for Alzheimer's Disease
Rebecca Reese (Mentor: Victor Kenyon, Chemistry)

Preliminary characterization of occipodins, natural product anticoagulants from blood feeding marine parasites, isopod Elthusa and copepod Phrixocephalus cincinnatus
William Reeves (Mentor: Aram Nersissian, Chemistry)

The Total Synthesis of Oncostemonols
Santiago Bedoya (Mentor: Jeffrey Cannon, Chemistry)

Preliminary characterization of occipodins, natural anticoagulants from Elthusa and P. cincinnatus
Alexandra Filkins (Mentor: Aram Nersissian, Chemistry)

The Development of a General Synthesis of Allylic Ester Sulfinamides
Tina Zolfaghari (Mentor: Jeffrey Cannon, Chemistry)

The Expression and Purification of Early Nodulin to test their Metal Binding Properties
Carlos Razo (Mentor: Aram Nersissian, Chemistry)

Multi-Spectroscopic Study of a Unique Cobalt Metal Complex
Arvin Sookezian (Mentor: Michael Hill, Chemistry)

Discovering the Plant Physiological Importance of the Early Nodulin Through Isolation and Purification
Christy Wong (Mentor: Aram Nersissian, Chemistry)
POSTER SESSIONS

SESSION 1: 1:30 PM - 2:15 PM (ODD NUMBERS)
SESSION 2: 2:15 PM - 3:00 PM (EVEN NUMBERS)

Poster Number

47  Synthesis of a Triazene-Ferrocene Modifier for Sunscreen Assay
    Kai Knight  (Mentor: Michael Hill, Chemistry)

48  Synthesis of modified anthraquinone to facilitate electrode-to-protein electron transfer.
    Ian Convy  (Mentor: Michael Hill, Chemistry)

49  Exploring the Memory Query Problem Space
    Nickolas Trzciniko  (Mentor: Justin Ning Hui Li, Cognitive Science
                       and Computer Science)

50  Electromechanical Reshaping of cartilage and the molecular and chemical effects of
    water electrolysis on the tissue and cell viability
    Anna Stokolosa  (Mentor: Michael Hill, Chemistry)

51  Thermal Expansion and Magnetostriction of the Magnetic Superconductor TmNi2B2C
    and the Nonmagnetic Superconductor LuNi2B2C
    Timothy Chung  (Mentor: George Schmiedeshoff, Physics)

52  Electromechanical reshaping of cartilage and the molecular and chemical effects of
    water electrolysis on the tissue and cell viability
    Lynn He  (Mentor: Michael Hill, Chemistry)

53  Flux and Isotope Analysis of CO2 emissions in Mammoth
    Robert Bogue  (Mentor: Christopher Oze, Geology)

54  Electrochemistry of Copper A and Cytochrome C proteins
    Omar Quddusi  (Mentor: Michael Hill and Andrew Udit, Chemistry)

55  Petrologic examination of hornblende in southern Coast Mountain Batholith,
    British Columbia
    Pinkie Young  (Mentor: Margi Rusmore, Geology)

56  Total Synthesis of Plakortones and Their Natural Products Utilizing Keto-Radical
    Cyclization
    Maxwell Gruber  (Mentor: Jeffrey Cannon, Chemistry)
POSTER SESSIONS

SESSION 1: 1:30 PM - 2:15 PM (ODD NUMBERS)
SESSION 2: 2:15 PM - 3:00 PM (EVEN NUMBERS)

57  What's the Buzz?: Native Bee Diversity of Northeast Los Angeles
    Hannah Hayes (Mentor: Elizabeth Braker, Biology)

58  Remote Carbon-Carbon Bond Formation via a Visible Light Catalyzed 1,5-Hydrogen Atom Transfer Reaction Involving a Nitrogen-Centered Radical
    Molly Brown (Mentor: Jeffrey Cannon, Chemistry)

59  Key Functional Traits of a Common Tropical Tree Across Soil Types in the Costa Rican Rain forest
    Natalie Myers (Mentor: Elizabeth Braker, Biology)

60  Virus Nanoparticles that Perturb Coagulation
    Michael Shoga (Mentor: Andrew Udit, Chemistry)

61  Leaf Water Relations of a Widespread Tank Bromeliad
    Madeline Gillman (Mentor: Gretchen North, Biology)

62  Generating a Heparin Substitute Using Sulfated Virus Nanoparticles
    Eric Moll (Mentor: Andrew Udit, Chemistry)

63  Acidity and Aquaporin Expression in Leaves of Tank Bromeliads
    Tiffany Kho (Mentor: Gretchen North, Biology)

64  Cobaltocenium Derivatives as Mediators for Bioelectrochemical Catalysis with P450
    Whi-Inh Shirley Bae (Mentor: Andrew Udit, Chemistry)

65  Plasticity in a Tropical Tree: Functional Trait Variation Across a Light Gradient and Three Substrate Types in Pentaclethra macroloba
    Stan Gosliner (Mentor: Gretchen North, Biology)

67  Developing a vaccine for pigeon fever
    Catherine Conlon (Mentor: Roberta Pollock, Biology)
## Presentations in alphabetical order, by student:

<table>
<thead>
<tr>
<th>Last Name</th>
<th>Session</th>
<th>Time</th>
<th>Poster or Room Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alonso</td>
<td>Poster 1</td>
<td>1:30 PM</td>
<td>3</td>
</tr>
<tr>
<td>Arrighi</td>
<td>Poster 2</td>
<td>2:15 PM</td>
<td>34</td>
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<tr>
<td>Astorga</td>
<td>Oral 1C</td>
<td>9:30 AM</td>
<td>Fowler 202</td>
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<tr>
<td>Bae</td>
<td>Poster 2</td>
<td>2:15 PM</td>
<td>64</td>
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<td>Bedoya</td>
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<td>1:30 PM</td>
<td>41</td>
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<td>Beighle</td>
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<td>23</td>
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<td>Poster 2</td>
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<td>24</td>
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<td>Bogue</td>
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<td>1:30 PM</td>
<td>53</td>
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<td>Brown</td>
<td>Poster 2</td>
<td>2:15 PM</td>
<td>58</td>
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<td>Burke</td>
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<td>Campuzano</td>
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<td>Chen</td>
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<td>28</td>
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<td>Choi</td>
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<td>36</td>
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<td>Chung</td>
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<td>1:30 PM</td>
<td>51</td>
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<td>Conlon, C.</td>
<td>Poster 1</td>
<td>1:30 PM</td>
<td>67</td>
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<td>Conlon, G.</td>
<td>Poster 2</td>
<td>2:15 PM</td>
<td>12</td>
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<td>Convy</td>
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<td>2:15 PM</td>
<td>48</td>
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<td>Cua</td>
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<td>10:25 AM</td>
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<td>Cupo</td>
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<td>1:30 PM</td>
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<td>Davis</td>
<td>Oral 3A</td>
<td>11:15 AM</td>
<td>Fowler 112</td>
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<td>Dwulet</td>
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<td>Fowler 209</td>
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<td>Filkins</td>
<td>Poster 2</td>
<td>2:15 PM</td>
<td>42</td>
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<td>Flores</td>
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<td>1:30 PM</td>
<td>25</td>
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<tr>
<td>Foy</td>
<td>Oral 3C</td>
<td>11:00 AM</td>
<td>Fowler 209</td>
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<td>Garrido</td>
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<td>11:15 AM</td>
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<td>Poster 1</td>
<td>1:30 PM</td>
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## Presentations in alphabetical order, by student (cont):

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Bruno Alonso ’17
Characterizing the Function of the E2 ubiquitin-conjugating enzyme UBC-1 in the C. elegans nervous system
Academic Commons, Session 1, Poster 3

Mentor: Renee Baran
Major: Biochemistry
Funding: Ford Research Mentor’s Endowment

Tess Arrighi ’17
The Role of Indole in Biofilm Formation and Predator-Prey Interaction in Bdellovibrio bacteriovorus and Escherichia coli
Academic Commons, Session 2, Poster 34

Mentor: Eileen Spain
Major: Chemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Samuel Astorga ’18
The Aesthetics of Liberty and Freedom: Labor in Mexican and Soviet Propaganda
Fowler 202, 9:30 AM

Mentor: Alexandra Puerto
Major: History
Funding: W. M. Keck Foundation Undergraduate Research Program

Whi-Inh Shirley Bae ’17
Cobaltocenium Derivatives as Mediators for Bioelectrochemical Catalysis with P450
Academic Commons, Session 2, Poster 64

Mentor: Andrew Udit
Major: Chemistry
Funding: Fletcher-Jones Science Scholar

Santiago Bedoya ’18
Optimizing the Methylation and Acetylation of Oncostemonols
Academic Commons, Session 1, Poster 41

Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: Deardorff Endowed Undergraduate Research Fellowship for Chemistry

Juliette Beighle ’17
Selection of Complex Foods in High and Low Saccharine-Consuming Rats
Academic Commons, Session 1, Poster 23

Mentors: Dale Chapman and Nancy Dess
Major: Psychology
Funding: American Psychological Association Summer Undergraduate Research Experience Grant (SUROG)

Chelsea Blankenchip ’17
Experimental Manipulation of Gut Microbial Communities Within Cephaloleia Beetles of Costa Rica
Academic Commons, Session 2, Poster 24

Mentor: Shana Goffredi
Major: Biochemistry
Funding: Fletcher-Jones Science Scholar

Robert Bogue ’17
Flux and Isotope Analysis of CO2 emissions in Mammoth
Academic Commons, Session 1, Poster 53

Mentor: Chris Oze
Major: Geology
Funding: Ford Research Mentor’s Endowment

Molly Brown ’18
Remote Carbon-Carbon Bond Formation via a Visible Light Catalyzed 1,5-Hydrogen Atom Transfer Reaction Involving a Nitrogen-Centered Radical
Academic Commons, Session 2, Poster 58

Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: Deardorff Endowed Undergraduate Research Fellowship for Chemistry
Susan Burke '18
Knocking out functionality of the microtubule-severing protein katanin in C. elegans neurons
Academic Commons, Session 1, Poster 1

Mentor: Renee Baran
Major: Biology
Funding: Ford Research Mentor's Endowment

Jose Campuzano '18
Purification and Analysis of Corynebacterium pseudotuberculosis’ major exotoxin: Phospholipase D
Academic Commons, Session 2, Poster 30

Mentor: Karen Molinder
Major: Undeclared
Funding: R. Pollock Faculty Enrichment Grant

Jasmine Chen '17
Immune Responses in Horses Infected with Corynebacterium pseudotuberculosis
Academic Commons, Session 2, Poster 28

Mentor: Roberta Pollock
Major: Biology
Funding: Ford Research Mentor's Endowment

Justin Choi '17
Reversing heparin-induced anticoagulation using a virus-like nanoparticle
Academic Commons, Session 2, Poster 36

Mentor: Andrew Udit
Major: Chemistry
Funding: Gifts to the Undergraduate Research Center

Timothy Chung '17
Thermal Expansion and Magnetostriction of the Magnetic Superconductor TmNi2B2C and the Nonmagnetic Superconductor LuNi2B2C
Academic Commons, Session 1, Poster 51

Mentor: George Schmiedeshoff
Major: Physics, Mathematics
Funding: Mary S. Caswell Endowment

Greta Conlon '17
Examining the role of palatability in the diet-stress relationship
Academic Commons, Session 2, Poster 12

Mentors: Dale Chapman and Nancy Dess
Major: Psychology
Funding: Ford Research Mentor's Endowment

Ian Convy '18
Synthesis of modified anthraquinone to facilitate electrode-to-protein electron transfer.
Academic Commons, Session 2, Poster 48

Mentor: Michael Hill
Major: Chemistry
Funding: Ford Research Mentor's Endowment

Grace Coogan '17
Habitat Preference of the California State Marine Fish
Academic Commons, Session 1, Poster 5

Mentor: Daniel Pondella
Major: Biology
Funding: Kristina D. Louie Memorial Fellowship with support from the Ford Research Mentor's Endowment
Samuel Cua '17
Racetrack Betting and the Favorite-Long Shot Bias
Fowler 202, 10:25 AM
Mentor: Brandon Lehr
Major: Economics, Chinese
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Lani Cupo '17
Emotional Perception of Culture and Art
Academic Commons, Session 2, Poster 2
Mentor: Aleksandra Sherman
Major: Cognitive Science, Theater
Funding: National Endowment for the Arts, grant to Dr. A. Sherman

Olivia Davis '17
Who owns the narrative in the movement for Black liberation at Occidental?
Fowler 112, 11:15 AM
Mentor: Donna Maeda
Major: Critical Theory and Social Justice, Theater
Funding: Ford Research Mentor's Endowment

Natalie Dwulet '17
Stereoselective Synthesis of Amino Acids Using the Ireland-Claisen Rearrangement
Fowler 209, 11:15 AM
Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Norris Science Scholar

Alexandra Filkins '16
Preliminary characterization of occipodins, natural anticoagulants from *Elthusa* and *P. cinninatus*
Academic Commons, Session 2, Poster 42
Mentor: Aram Nersisian
Major: Biochemistry
Funding: Fletcher-Jones Chemistry and Biochemistry Research Endowment

Gabriel Flores
Organization of Eating in Female Rats Selectively Bred on a Sweetener Phenotype
Academic Commons, Session 1, Poster 25
Mentor: Nancy Dess
Visiting Student
Funding: American Psychological Association Summer Undergraduate Research Experience Grant (SUROG)

Nicholas Foy '17
Reductive Ketyl Radical Cyclizations in the Total Synthesis of the Plakortone Family of Natural Products
Fowler 209, 11:00 AM
Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Ford Research Mentor's Endowment

Micah Garrido '17
Suppote i Kuttura-ta: Contemporary Chamorro Music and Language Preservation on the Island of Guam
Fowler 202, 11:15 AM
Mentor: Shanna Lorenz
Major: Cognitive Science
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Madeline Gillman '18
Leaf Water Relations of a Widespread Tank Bromeliad
Academic Commons, Session 1, Poster 61
Mentor: Gretchen North
Major: Biology
Funding: OxyMS Teaching Scholars grant
Stan Gosliner '17

Plasticity in a Tropical Tree: Functional Trait Variation Across a Light Gradient and Three Substrate Types in Pentaclethra macroloba
Academic Commons, Session 1, Poster 65

Mentor: Gretchen North
Major: Biology
Funding: OxyMS Teaching Scholars grant

Maxwell Gruber '17

Total Synthesis of Plakortones and Their Natural Products Utilizing Keto-Radical Cyclization
Academic Commons, Session 2, Poster 56

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Deardorff Endowed Undergraduate Research Fellowship for Chemistry

Maricela Guardado '16

Come Over for Chicken Soup: A Potluck and Play Reading of "This Is How the Pacheco Brothers Make Their Mama's Chicken Soup" by Maricela Guardado
Fowler 202, 11:30 AM

Mentor: Sarah Kozinn
Major: Latino/a Latin American Studies, Theater
Funding: Institute for the Study of Los Angeles (ISLA) Fellowship

Cassandra Guidice '18

Embracing Finitude: Hölderlin’s Ode to Tragedy
Fowler 201, 10:35 AM

Mentor: Damian Stocking
Major: Comparative Studies in Literature and Culture
Funding: Ford Research Mentor's Endowment

Julia Hamilton ‘17

Take a Walk in Someone Else's Shoes: Empathy's Role in the Simulation and Prediction of Others' Actions
Fowler 209, 9:50 AM

Mentor: Aleksandra Sherman
Major: Cognitive Science
Funding: Fletcher-Jones Science Scholar

Preston Harry '17

Influences of Deception: Examining Lie Aversion
Fowler 202, 10:10 AM

Mentor: Brandon Lehr
Major: Economics
Funding: Ford Research Mentor's Endowment

Hannah Hayes '18

What's the Buzz?: Native Bee Diversity of Northeast Los Angeles
Academic Commons, Session 1, Poster 57

Mentor: Elizabeth Braker
Major: Biology
Funding: Gifts to the Undergraduate Research Center

Julia Hamilton ‘17

Take a Walk in Someone Else's Shoes: Empathy's Role in the Simulation and Prediction of Others' Actions
Fowler 209, 9:50 AM

Mentor: Aleksandra Sherman
Major: Cognitive Science
Funding: Fletcher-Jones Science Scholar

Preston Harry '17

Influences of Deception: Examining Lie Aversion
Fowler 202, 10:10 AM

Mentor: Brandon Lehr
Major: Economics
Funding: Ford Research Mentor's Endowment

Electromechanical reshaping of cartilage and the molecular and chemical effects of water electrolysis on the tissue and cell viability
Academic Commons, Session 2, Poster 52

Mentor: Michael Hill
Major: Undeclared
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Ethan Heffernan '18

Looking for the Invisible: A Search for Dark Matter
Fowler 202, 9:50 AM

Mentor: Daniel Snowden-Ifft
Major: Physics
Funding: Norris Research Endowment
Isela Hernandez ‘18
Targeting Topoisomerase 1 SUMOylation in cancer therapy
Academic Commons, Session 1, Poster 27
Mentor: Kerry Thompson
Major: Biology
Funding: Undergraduate Research Center Summer Research Fellowship, City of Hope

Robert Jerberg ‘17
Harmony of the Senses
Academic Commons, Session 2, Poster 4
Mentor: Carmel Levitan
Major: Cognitive Science
Funding: Ford Research Mentor’s Endowment

Jennifer Hichar ‘17
Children’s differentiation of possibility and permissibility
Fowler 112, 9:20 AM
Mentor: Andrew Shtulman
Major: Psychology
Funding: National Science Foundation, grant to Dr. A. Shtulman

Jessica Ingle ‘17
Children’s differentiation of possibility and permissibility
Fowler 112, 9:20 AM
Mentor: Andrew Shtulman
Major: Cognitive Science
Funding: National Science Foundation, grant to Dr. A. Shtulman

Maile Kawasaki ‘17
Historical events and Prussian bond prices, 1808-1830
Academic Commons, Session 2, Poster 18
Mentor: Kirsten Wandschneider
Major: Economics
Funding: Institute for New Economic Thinking Grant to Prof. Wandschneider

Tatum Katz ‘17
Incorporating Model Selection in Predicting the Spread of Invasive Fungal Pathogen *Batrachochytrium salamandrivorans*
Academic Commons, Session 1, Poster 9
Mentor: Amanda Zellmer
Major: Biology
Funding: Summer Undergraduate Research Fellowship

Tiffany Kho ‘17
Acidity and Aquaporin Expression in Leaves of Tank Bromeliads
Academic Commons, Session 1, Poster 63
Mentor: Gretchen North
Major: Biology
Funding: OxyMS Teaching Scholars grant

Kai Knight ‘17
Synthesis of a Triazene-Ferrocene Modifier for Sunscreen Assay
Academic Commons, Session 1, Poster 47
Mentor: Michael Hill
Major: Biochemistry
Funding: Fletcher-Jones Chemistry and Biochemistry Research Endowment

Bradley Kawano ‘17
Community-based Research in Nicaragua’s Health Sector
Fowler 209, 9:30 AM
Mentor: Clair Morrissey
Major: Philosophy
Funding: The Paul K. and Evalyn E. Cook Richter Trust
Peter Laminette ’17
The Link Between FASD and Epilepsy
Academic Commons, Session 1, Poster 15

Mentor: Kerry Thompson
Major: Biology
Funding: Ford Research Mentor’s Endowment

Claudia Lechner ’18
Life on the High School Totem Pole
Academic Commons, Session 1, Poster 19

Mentor: Andrea Hopmeyer
Major: Psychology
Funding: American Psychological Association Summer Undergraduate Research Experience Grant (SUROG)

Judy Lee ’17
Conscious and Unconscious Processes in Human Fear Conditioning
Academic Commons, Session 2, Poster 6

Mentor: Anne Schell
Major: Psychology
Funding: Ford Research Mentor’s Endowment

Zawadia LeFang ’18
Examining the Relationship between Facility Readiness and Facility Based Deliveries in Ghana
Fowler 202, 9:00 AM

Mentor: Diana Ngo
Major: Economics
Funding: Ford Research Mentor’s Endowment

Angel Leus ’17
Indole’s role in the cell interactions of E. coli and Bdellovibrio bacteriovorus in unique biofilm growth
Academic Commons, Session 2, Poster 38

Mentor: Eileen Spain
Major: Biochemistry
Funding: Mary S. Caswell Endowment

Timothy Lewis ’17
The Collapse of Bourgeois Conservation into Utilitarian Waste: Georges Bataille and Alternative Economies of Consumption
Fowler 201, 10:20 AM

Mentor: Elmer Griffin
Major: Critical Theory and Social Justice
Funding: Ford Research Mentor’s Endowment

Connie Li ’17
Investigation of Immune Responses in Horses Infected with Corynebacterium pseudotuberculosis
Academic Commons, Session 2, Poster 26

Mentor: Karen Molinder
Major: Biochemistry
Funding: Ford Research Mentor’s Endowment

Promise Li ’18
Gramsci in his Limits: The Symptoms of the Modern Prince
Fowler 112, 10:20 AM

Mentor: Warren Montag
Major: English, Critical Theory and Social Justice
Funding: Arnston Memorial Essay Award

Harrison Luft ’17
Trade Finance During the Great Recession
Fowler 112, 10:05 AM

Mentor: Jesse Mora
Major: Economics
Funding: Bennet W. Schwartz Study Grant
Nan Ma ‘18
Calibration of the Drift-BDX Detector in Stanford Linear Accelerator
Fowler 202, 9:50 AM
Mentor: Daniel Snowden-Ifft
Major: Physics
Funding: Ford Research Mentor’s Endowment

Aatif Malik ‘17
Integrating Niche Modeling and eDNA to Detect Cryptic Endangered Haliotis
Academic Commons, Session 1, Poster 13
Mentor: John McCormack
Major: Biology
Funding: Ford Research Mentor’s Endowment

Carolyn Marsh ‘17
Implications of exercise for coping with stress in selectively-bred rats
Academic Commons, Session 2, Poster 10
Mentor: Dale Chapman and Nancy Dess
Major: Psychology
Funding: Ford Research Mentor’s Endowment

Colin McCully ’17
Cobaltocenium Derivatives as P450 Mediators for Synthesis of Fine Chemicals and Pharmaceuticals
Academic Commons, Session 1, Poster 33
Mentor: Andrew Udit
Major: Chemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Tal Medovoy ‘18
College Crowd Affiliation, Risk Behavior and Socio-Emotional Well-Being
Academic Commons, Session 1, Poster 21
Mentor: Andrea Hopmeyer
Major: Psychology
Funding: Ford Research Mentor’s Endowment

Eric Moll ’17
Generating a Heparin Substitute Using Sulfated Virus Nanoparticles
Academic Commons, Session 2, Poster 62
Mentor: Andrew Udit
Major: Chemistry
Funding: National Science Foundation, grant to Dr. A. Udit

Colin Mostoufi ’17
The Cosman Shell Collection Revealed: Analysis of the Hawaiian Gastropod Dataset
Academic Commons, Session 1, Poster 31
Mentor: Joseph Schulz
Major: Geology, Biology
Funding: Cosman Family Shells Research Support Fund

Marjorie Morales ’17
Integrating Diversity in STEM at Occidental College
Academic Commons, Session 2, Poster 20
Mentor: Aleksandra Sherman and Amanda Zelmer
Major: Kinesiology
Funding: Office of the Chief Diversity Officer

Ashkan Mortazavi ’17
Low-Wage Atlas
Fowler 209, 9:15AM
Mentor: Virginia Parks
Major: Economics, Mathematics
Funding: National Science Foundation, grant to Dr. V. Parks
Mairin Murphy ’18
TOPS Identity Project: Social Media as a Tool for Motivating STEM Aspirations
Fowler 201, 9:00 AM

Natalie Myers ’18
Key Functional Traits of a Common Tropical Tree Across Soil Types in the Costa Rican Rain forest
Academic Commons, Session 1, Poster 59

Brachelle Nueku ’17
Elementary School Playground Design: Impact on Future Collegiate Physical Activity Participation
Fowler 112, 11:00 AM

Trevor Nash ’17
Colorimetric detection of fluoride via gold nanoparticle aggregation
Academic Commons, Session 2, Poster 32

Scott Niman ’18
Enantioselective Total Synthesis of Isofagomine
Academic Commons, Session 1, Poster 35

Emily Ong ’17
Investigating the carcinogenic liver fluke in Northeast Thailand
Fowler 201, 9:15 AM

Karen Oliva ’17
Wage Theft in Pasadena
Academic Commons, Session 2, Poster 14

Omar Quddusi ’16
Electrochemistry of Copper A and Cytochrome C proteins
Academic Commons, Session 2, Poster 54

Mentor: Chris Craney
Major: Undeclared
Funding: Ford Research Mentor's Endowment

Mentor: Elizabeth Braker
Major: Biology (Environmental Science Concentration)
Funding: OxyMS Teaching Scholars grant

Mentor: Marcella Raney
Major: Kinesiology
Funding: Walter C. and Patricia Harris Mack Undergraduate Summer Research Fund

Mentor: Peter Dreier
Major: Sociology
Funding: Mary S. Caswell Endowment

Mentor: Derek Ross
Major: Chemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Mentor: Eileen Spain
Major: Chemistry
Funding: Chemistry and Biochemistry Summer Research Fellowship

Mentor: Robert Moore
Major: Economics
Funding: Ford Research Mentor's Endowment

Mentor: Michael Hill and Andrew Udit
Major: Biochemistry
Funding: Research Corporation grant, to Dr. M. Hill and Dr. A. Udit
Delarys Ramos Estrada ‘19
Mola Fowler 202, 11:00 AM

Mentor: Danzy Senna
Major: Undeclared
Funding: Argonaut Summer Research Award in Creative Writing

Carlos Razo ‘16
The Expression and Purification of Early Nodulin to test their Metal Binding Properties
Academic Commons, Session 2, Poster 44

Mentor: Aram Nersissian
Major: Biochemistry
Funding: Fletcher-Jones Chemistry and Biochemistry Research Endowment

Rebecca Reese ‘17
Docking, modeling, and sequencing of acid sphingomyelinase in pursuit of therapeutics for Alzheimer’s Disease
Academic Commons, Session 1, Poster 39

Mentor: Victor Kenyon
Major: Biochemistry, Spanish
Funding: Fletcher-Jones Chemistry and Biochemistry Research Endowment

Will Reeves ‘16
Preliminary characterization of occipodins, natural product anticoagulants from blood feeding marine parasites, isopod Ethusa and copepod Phrixocephalus cinnacinatus
Academic Commons, Session 2, Poster 40

Mentor: Aram Nersissian
Major: Kinesiology
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Jaquelyne Rodriguez ‘18
Wage Theft in Pasadena
Academic Commons, Session 2, Poster 16

Mentor: Peter Dreier
Major: Urban and Environmental Policy
Funding: Undergraduate Research Fund for Corporate Responsibility

Miranda Roethler ‘17
Effects of El Niño on anchovy populations in San Diego Bay
Academic Commons, Session 1, Poster 7

Mentor: Daniel Pondella
Major: Biology
Funding: Virginia Reid Moore ‘37 Summer Research Fellowship

Ariana Rowshan ‘17
Probing Cytochrome P450 Bioelectrocatalysis with Redox Titrations
Academic Commons, Session 1, Poster 29

Mentor: Andrew Udit
Major: Biochemistry
Funding: Chemistry and Biochemistry Summer Research Fellowship

Alyssa Sanchez ‘17
Bilingualism’s Effect on Morality in Barcelona, Spain
Fowler 209, 10:35 AM

Mentor: Aleksandra Sherman
Major: Cognitive Science, Spanish
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Ed Sartor ‘17
The Synthesis of Oncostemonols
Fowler 209, 11:30 AM

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Chemistry and Biochemistry Summer Research Fellowship
Gabrielle Seiwert '17
Indiscrete Bodies: Towards new models of female subjectivity in abortion rhetoric from 2015 - 2016
Fowler 112, 9:50 AM

Mentor: Julie Prebel
Major: Critical Theory and Social Justice
Funding: Ford Research Mentor's Endowment

Ilana Share '16
Parent-Child Conversations About Food Product Choices
Poster Fowler 112, 9:00 AM

Mentor: Andrew Shtulman
Major: Psychology, Cognitive Science
Funding: National Science Foundation, grant to Dr. A. Shtulman

Arvin Sookezian '16
Multi-Spectroscopic Study of a Unique Cobalt Metal Complex
Academic Commons, Session 1, Poster 45

Mentor: Michael Hill
Major: Chemistry
Funding: Miller-Van Gerpen Endowed Summer Research Fellowship

Anna Stokolosa '18
Electromechanical Reshaping of cartilage and the molecular and chemical effects of water electrolysis on the tissue and cell viability
Academic Commons, Session 2, Poster 50

Mentor: Michael Hill
Major: Biochemistry
Funding: Chemistry and Biochemistry Summer Research Fellowship

Jonathan Stoler '17
Logic and Language: Searching for an Empirically-Supported Theory of Vagueness
Fowler 209, 10:20 AM

Mentor: Carolyn Brighouse
Major: Philosophy, Cognitive Science
Funding: Ford Research Mentor's Endowment

Della Tang '17
Conscious and Unconscious Processes in Human Fear Conditioning
Academic Commons, Session 2, Poster 8

Mentor: Anne Schell
Major: Psychology
Funding: American Psychological Association Summer Undergraduate Research Experience Grant (SUROG)

Spencer Thompson '17
An Ontological Enquiry into the Possibility of Free Beauty in the West
Fowler 201, 9:50 AM

Mentor: Elmer Griffin
Major: Critical Theory and Social Justice, English
Funding: Ford Research Mentor's Endowment
Dayja Tillman ’17
Violence Against Women in the Dominican Republic
Fowler 112, 11:30 AM

Mentor: Jennifer Piscopo
Major: Politics
Funding: Walter B. Gerken Summer Research Fellowship

Nickolas Trzcinko ’17
Exploring the Memory Query Problem Space
Academic Commons, Session 1, Poster 49

Mentor: Justin Li
Major: Cognitive Science
Funding: Ford Research Mentor's Endowment

Grant Uba ’17
Potential species delimitation of Battrachoseps attenuatus
Academic Commons, Session 1, Poster 11

Mentor: Amanda Zellmer
Major: Biology
Funding: A. Zellmer Faculty Enrichment Grant & Faculty Development Fund

Erin Van Zanten ’17
Addressing Community Health in Salta, Argentina: Services of Fundación Equinoterapia del Azul
Fowler 112, 11:45 AM

Mentor: Marcella Raney
Major: Kinesiology
Funding: The Paul K. and Evalyn E. Cook Richter Trust

He Isaac Wang ’17
Enantioselective Synthesis of DAB-1
Academic Commons, Session 1, Poster 37

Mentor: Derek Ross
Major: Biochemistry
Funding: Mary S. Caswell Endowment

Eva Yiyun Wang ’18
Assessing the efficiency level of health facilities in Ghana
Fowler 209, 10:05 AM

Mentor: Diana Ngo
Major: Economics
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Anya Weis ’17
Disintegration of Subjectivity: A Close Reading of Euripides’ Medea
Fowler 201, 10:05 AM

Mentor: Damian Stocking
Major: Group Language and Comparative Studies in Literature and Culture
Funding: Arnston Memorial Essay Award

Jessica Wilcox ’17
Emerging adults' feelings of loneliness in college
Academic Commons, Session 1, Poster 17

Mentor: Andrea Hopmeyer
Major: Psychology
Funding: Ford Research Mentor's Endowment

Christy Wong ’18
Discovering the Plant Physiological Importance of the Early Nodulin Through Isolation and Purification
Academic Commons, Session 2, Poster 46

Mentor: Aram Nersissian
Major: Biochemistry
Funding: Ford Research Mentor's Endowment
Myka Yamasaki '19

From Labor Ethics to Research Ethics: Reframing the Discussion on Amazon's Mechanical Turk
Fowler 209, 9:00 AM

Mentor: Clair Morrissey
Major: Undeclared
Funding: Ford Research Mentor's Endowment

Pinkie Young '17

Petrologic examination of hornblende in southern Coast Mountain Batholith, British Columbia
Academic Commons, Session 1, Poster 55

Mentor: Margi Rusmore
Major: Geology
Funding: Ford Research Mentor's Endowment

Tina Zolfaghari '18

The Development of a General Synthesis of Allylic Ester Sulfinamides
Academic Commons, Session 1, Poster 43

Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: Mark Paulsen '10 Summer Fellowship in Chemical Science

Michael Zucker ‘17

Making Amends: How the Holocaust Shaped American Refugee Policy
Fowler 202, 9:15 AM

Mentor: Jane Hong
Major: History
Funding: Ray A. Billington Endowment
Funding

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Acknowledgements

We would like to express our sincere thanks to all the Occidental faculty and staff members who devote so much of their time to mentoring and supporting our summer research fellows. Without these dedicated people, our program could not exist.

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Program designed by: Ca’la K. Connors ’17

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