August 2, 2017

Dear Summer Research Conference Attendees,

Welcome to our Summer Research Conference! We are proud today to recognize the achievements of over 100 students who, with guidance from their faculty mentors, have spent the last ten weeks seeking answers to scholarly questions ranging from A: Adolescents’ Experiences of Loneliness at School, to [almost] Z: Visibility and Desire: Construction of Black Identity in Grassroots Basketball.

For three decades, Occidental has supported undergraduate research in all disciplines, putting us at the forefront of national liberal arts colleges in this arena. Occidental's Strategic Plan names Undergraduate Research as an institutional priority, and today we celebrate the continuing success of that commitment.

Making undergraduate research happen at Oxy is a campus-wide effort. Our students are supported in their efforts not just by their faculty mentors and the Undergraduate Research Center, but also by administrators, staff, alumni, donors, and campus constituencies across the board. We are so grateful for everyone who contributes to make this program and the annual conference a success.

Thank you very much for taking time to attend and learn about our student's work and Occidental's commitment to the undergraduate research experience. We encourage you to visit the poster sessions and attend as many oral presentations as possible in order to appreciate more fully the scope of Oxy’s Summer Research Program.

Along with all of my colleagues in the Undergraduate Research Center, allow me to wish everyone a very special day.

Congratulations to our student presenters!

Best regards,

Janet Morris '87

Administrator, Undergraduate and Sponsored Research Office
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
2017 Summer Undergraduate Research Conference
Schedule of Events ● August 2, 2017

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, 202, 209

9:50 AM  Oral Presentations, Session Two
          Fowler Hall, Rooms 111, 112, 202, 209, 309

11:00 AM Oral Presentations, Session Three
          Fowler Hall, Rooms 111, 112, 202, 209, 302, 309

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

12:30 – 3:30 PM Screening of vintage scenes from Oxy, film provided by Special Collections. Main Floor, Academic Commons, circulation area.

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

2:30 PM  Poster Presentations, Session Two
          Library/Academic Commons, 3rd floor, "new" building side

3:30 PM  Conference ends
Oral Presentations: Session 1 (9:00 – 9:45 AM)

Session 1A: Fowler 112
Session Chair: Peter Dreier

9:00  *Study of New Minimum Wage Law on Low-Income Workers in the City of Pasadena*
David Mariscal
Mentor: Peter Dreier, Urban and Environmental Policy

9:00  *Impact of Minimum Wage Ordinance on Low-Wage Workers in Pasadena*
Eleanor Wells
Mentor: Peter Dreier, Urban and Environmental Policy

9:00  *Study of New Minimum Wage Law on Low-Income Workers in the City of Pasadena*
MacKenna Wenzl
Mentor: Peter Dreier, Urban and Environmental Policy

9:30  *The Food Loop: The Expansion and Use of Fertilizers in Capitalist and Socialist Agriculture*
Janice Wong
Mentor: Alexander Day, History

Session 1B: Fowler 202
Session Chair: Andrew Young

9:00  *Investigating Children's Cognitive Reflection*
Lesley Pilgrim
Mentors: Andrew Shtulman, Cognitive Science and Psychology and Andrew Young

9:00  *Investigating Children's Cognitive Reflection*
Allison Powers
Mentors: Andrew Shtulman, Cognitive Science and Psychology and Andrew Young

9:20  *Manipulating the Conflict between Science and Intuition*
Eushrah Hossain
Mentor: Andrew Shtulman, Cognitive Science and Psychology

9:20  *Manipulating the Conflict between Science and Intuition*
Devon Mann
Mentor: Andrew Shtulman, Cognitive Science and Psychology
Session 1C: Fowler 209  
Session Chair: Aleksandra Sherman

9:00  *Mahila unite: trauma care and women's empowerment in Nepal*  
Lani Cupo  
Mentor: Aleksandra Sherman, Cognitive Science

9:15  *Bats*  
Olivia Stevens  
Mentor: Elizabeth Braker, Biology

9:30  *From Sequence to Activity: Synthetic Neuroexcitatory Peptides from Fish Hunting Cone Snails*  
Mark Gad  
Mentor: Joseph Schulz, Biology

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

Session 2A: Fowler 111  
Session Chair: Jane Hong

9:50  *Vietnamese Amerasians, the Myth of American Exceptionalism, and The White Savior Complex, 1980-1990*  
Laura Chun  
Mentor: Jane Hong, History

10:05  *Occidental's Investment Dilemma: using histories to explore the future of Socially Responsible Investing at Occidental*  
Hallaamal Keir  
Mentor: Regina Freer, Politics

10:20  *Anti Racist Organizing in a “Post Racial” Society: The Efficacy of Dialogue Based Undoing Racism In White Communities*  
Sandy Pattison  
Mentor: Amy Tahani-Bidmeshki, American Studies

10:35  *From the Mariel Boatlift to the Pulse Nightclub: The United States’ Weaponization of Equality*  
Jack Schofield  
Mentor: Alexandra Puerto, History
Session 2B: Fowler 112
Session Chair: Chris Craney

9:50 Parasites, Raw Fish, and Cancer: Characterization of Diagnostic Targets for Liver-fluke Associated Cholangiocarcinoma in Northern Thailand
Audrey Shawley
Mentor: Chris Craney, Chemistry and Biochemistry

10:05 TOPS Identity Project: How High School Students Gain Interest Towards STEM Through the Use of Social Media
Snigdha Suvarna
Mentor: Chris Craney, Chemistry and Biochemistry

10:20 New Approaches to Store Solar Energy: Controlled Photovoltaic Power Demonstrator
Jacob Gutierrez
Mentor: Gabriel Freiman, Physics

10:35 Carbon-Based Supercapacitors for Photovoltaic Applications
Gyan Prayaga
Mentor: Gabriel Freiman, Physics

Session 2C: Fowler 202
Session Chair: Nancy Dess

9:50 Acquaintance Prior to a Food Competition Affects Development of Social Hierarchy in Rats
Kerensa Nagle
Mentor: Nancy Dess, Psychology

10:05 Olfactory Kin Recognition in HiS/LoS Rats: Smelling A Sweet Tooth
Ruby Koontz
Mentor: Nancy Dess, Psychology

10:20 Deprivation Induced Hyperactivity: Looking at Energy Balance in Rats
Rhea Bhatia
Mentor: Dale Chapman, Psychology

10:35 Factors that affect how anxiety motivates people
Lilang Chen
Mentor: Brian Kim, Psychology
Session 2D: Fowler 209  
Session Chair: Brandon Lehr

9:50 America's Chinese Coolie Slave Trade: A debate of morality between the North and the South  
Kil Joon Chung  
Mentor: Alexander Day, History

10:05 Poetry as Protest: Angel Island Detainee Poetry and Everyday Resistance, 1910-1940  
Alex Lee  
Mentor: Xiao-huang Yin, American Studies

10:20 “What would you do without this army of 72,000 dark skinned workers?”  
Inter-ethnic coalitions among California farmworkers in the Great Depression  
Belen Moreno  
Mentor: Jeremiah B.C. Axelrod, History

10:35 Tax for happiness? The impact of tobacco taxes on smoker satisfaction  
Yiyun Wang  
Mentor: Brandon Lehr, Economics

Session 2E: Fowler 309  
Session Chair: Justin Li

9:50 Feeling Digital: Queer Innovation and Archival Technologies  
Promise Li  
Mentor: Heather Lukes, Critical Theory and Social Justice

10:05 Dismantling Skinny In Academia: Legitimizing Fatphobia and Addressing Fat Microaggressions in a Classroom  
Maria Hernandez  
Mentor: Erica Ball, American Studies

10:20 The Poster; Flow and Forces in the Fascist Formation of the Black Ballplayer: A Deleuzian Analysis  
Marcus Forbes  
Mentor: G. Elmer Griffin, Critical Theory and Social Justice

10:35 The Aporia of European Hosting: Axiomatics in the Undoing and Reinvention of Hospitality  
Samuel Clendenning  
Mentor: G. Elmer Griffin, Critical Theory and Social Justice
Oral Presentations: Session 3 (11:00 AM–12:00 PM)

**Session 3A: Fowler 111**
Session Chair: Janet Scheel

11:00  *Analyses of Turbulent Behaviors in Rayleigh-Bénard Convection*
Ryan Corkrean
Mentor: Janet Scheel, Physics

11:15  *Tracking RR Lyrae Variable Stars*
Sarah Dalessi
Mentor: Charles Oravec, Physics

11:30  *Measurement of Neutron Flux at a Shallow Depth*
Nan Ma
Mentor: Daniel Snowden-Ifft, Physics

11:45  *Looking for the Invisible: Installation of Gas Mix System for DriftIIIG Dark Matter Detector*
Ethan Heffernan
Mentor: Daniel Snowden-Ifft, Physics

**Session 3B: Fowler 112**
Session Chair: Damian Stocking

11:00  *The Aesthetics of Finitude in Kant and Kierkegaard*
Peter Johnson
Mentor: Bryan Klausmeyer, Comparative Studies in Literature and Culture

11:15  *Video and Envelopment in Dogme 95*
Bennett Harrison
Mentor: Damian Stocking, Comparative Studies in Literature and Culture

11:30  *Manufacturing Nations Before States: A Survey of Nationality as the Ground of Soviet and Post-Soviet Political Thought in Russia*
Samuel Page
Mentor: Walter Richmond, Comparative Studies in Literature and Culture

11:45  *(Im)mortality, the Unthinkable: Deconstruction, Psychoanalysis, and the Question of Desire*
Marshall Meyer
Mentor: Damian Stocking, Comparative Studies in Literature and Culture
Session 3C: Fowler 202  
Session Chair: Amy Lyford

11:00 "So We Did It Ourselves": Documenting the Trajectories of L.A.'s Shuttered Artist-Run Venues  
Cory Lomberg  
Mentor: Shana Lorenz, Music

11:15 Institutionalizing Black Arts in the City: The Communicative Arts Academy in Compton  
Allison Wendt  
Mentor: Amy Lyford, Art and Art History

11:30 United American Indian Involvement Photo Archival Project: Decolonizing the Archive  
Kelsey Martin  
Mentor: Nancy Mithlo, Art and Art History

11:45 Colonialization Through Food Documentation (film)  
Miranda Clancy  
Mentor: Ari Laskin, Media Arts and Culture

Session 3D: Fowler 209  
Session Chair: Clair Morrissey

11:00 Building Connection to Community through Connection to Nature within Ecological Research  
Clarasophia Gust  
Mentor: Clair Morrissey, Philosophy

11:15 Cultivation of virtuous character traits in young scientists and the development of ethical research practices  
Hannah Fishbein  
Mentor: Clair Morrissey, Philosophy

11:30 Memoir Excerpt Reading  
Josie Pesce  
Mentor: Sarah Ostendorf, English and Comparative Literary Studies

11:45 Bare Life: A Recentering of Black Queer Femininity  
Chance Ward  
Mentor: Julie Prebel, Writing and Rhetoric
**Session 3E: Fowler 302**

**Session Chair: Jeffrey Cannon**

11:00 *Synthesizing Furanolactone Motifs through Photoredox/Lewis Acid-Catalyzed Ketyl Radical Cyclizations*

*Katherine Forbes*
Mentor: Jeffrey Cannon, Chemistry

11:15 *Diastereoselective Synthesis of Unnatural Amino Acids via an Auxiliary-directed Enolate Alkylation*

*Molly Brown*
Mentor: Jeffrey Cannon, Chemistry

11:30 *Total Synthesis of DAB-1*

*Scott Niman*
Mentor: Derek Ross, Chemistry

11:45 *Method Development for Synthesis of Novel bis-5-alkylresorcinol*

*Matthew Schmidt*
Mentor: Jeffrey Cannon, Chemistry

**Session 3F: Fowler 309**

**Session Chair: Kristi Upson-Saia**

11:00 *Roots of Programs at Oxy*

*Alma Olavarría Gallegos*
Mentor: Dale Stieber, Special Collections Librarian and College Archivist

11:15 *Gentrification in Leimert Park: Exploring Perceptions of Community and Security*

*Chelsie Goins*
Mentor: Regina Freer, Politics

11:30 *Interrogating the role of educational pedagogies when addressing female circumcision in the Gikuyu community*

*Joscelyn Guzman*
Mentor: Kristi Upson-Saia, Religious Studies

11:45 *Patient Retention in Antiretroviral Treatment Program at St. Francis Health Care Services in Uganda: Factors Affecting Retention*

*Zulema Iboa Garcia*
Mentor: Richard Mora, Sociology
Poster Sessions

Posters will be on display on the 3rd floor of the Academic Commons

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

<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>1</td>
<td><em>Synthesis of Furanolactone Cores via Ketyl Radical Cyclization Using a Ruthenium Catalyst</em></td>
<td>David Barnett</td>
<td>Jeffrey Cannon, Chemistry</td>
</tr>
<tr>
<td>2</td>
<td>Kinetics study of water oxidation catalyst</td>
<td>Ian Convy</td>
<td>Michael Hill, Chemistry</td>
</tr>
<tr>
<td>3</td>
<td><em>Optimization of a mouse model for testing Corynebacterium pseudotuberculosis vaccines</em></td>
<td>Holly Barrett</td>
<td>Roberta Pollock, Biology</td>
</tr>
<tr>
<td>4</td>
<td>Games for Gains: The Effects of Video Games on Motor Learning Skills</td>
<td>Abbie Bowers</td>
<td>Stuart Rugg, Kinesiology</td>
</tr>
<tr>
<td>5</td>
<td><em>Synthesis of Furanolactone Structural Motifs via Reductive Ketyl Radical Cyclization</em></td>
<td>Anne Marie Crooke</td>
<td>Jeffrey Cannon, Chemistry</td>
</tr>
<tr>
<td>6</td>
<td>Characteristics of CuA and Cytochrome c552 on Self-Assembled Thiol Monolayers on Gold Electrodes</td>
<td>Charlotte Cullip</td>
<td>Michael Hill, Chemistry</td>
</tr>
<tr>
<td>7</td>
<td>Developing the framework for a vaccine against Corynebacterium pseudotuberculosis</td>
<td>Jose Campuzano</td>
<td>Karen Molinder, Biology</td>
</tr>
<tr>
<td>8</td>
<td>Adolescents' Experiences of Loneliness in School</td>
<td>EvaMarie David</td>
<td>Andrea Hopmeyer, Psychology</td>
</tr>
<tr>
<td>9</td>
<td>Development of an auxiliary-directed enolate alkylation for unnatural amino acid synthesis</td>
<td>Natalie Dwulet</td>
<td>Jeffrey Cannon, Chemistry</td>
</tr>
<tr>
<td>10</td>
<td>Cobalticinium Derivatives as Mediators for Biocatalysis of P450</td>
<td>Danica Gressel</td>
<td>Andrew Udit, Chemistry</td>
</tr>
<tr>
<td>11</td>
<td>Bee diversity on native summer-flowering plants in Los Angeles County</td>
<td>Cora Davies</td>
<td>Elizabeth Braker, Biology</td>
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<tr>
<td>12</td>
<td>Self-Perceptions of Social Status in Adolescence</td>
<td>Claudia Lechner</td>
<td>(Mentor: Andrea Hopmeyer, Psychology)</td>
</tr>
<tr>
<td>13</td>
<td>Synthesis of Unnatural Amino Acids using a Chiral Auxiliary</td>
<td>Daniel Essayan</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
</tr>
<tr>
<td>14</td>
<td>Generating a Heparin Substitute Using Sulfated Virus Nanoparticles</td>
<td>Annie Rorick</td>
<td>(Mentor: Andrew Udit, Chemistry)</td>
</tr>
<tr>
<td>15</td>
<td>Using Physiological Traits and Future Climate Models to Predict the Distribution of Valley Oak</td>
<td>Madeline Gillman</td>
<td>(Mentor: Gretchen North, Biology)</td>
</tr>
<tr>
<td>16</td>
<td>A Cross-Cultural Study of Loneliness Among Emerging Adults in College</td>
<td>Kathleen DeCoste</td>
<td>(Mentor: Andrea Hopmeyer, Psychology)</td>
</tr>
<tr>
<td>17</td>
<td>Synthesizing Furanolactones Using Reductive Ketyl Radical Cyclizations</td>
<td>Nicholas Foy</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
</tr>
<tr>
<td>18</td>
<td>Synthesis of electron Transfer Chain to Cytochrome P450</td>
<td>Ben Sappey</td>
<td>(Mentor: Michael Hill, Chemistry)</td>
</tr>
<tr>
<td>19</td>
<td>Diversity of Native Bee Sunflower Visitors across an Urbanization Gradient</td>
<td>Hannah Hayes</td>
<td>(Mentor: Elizabeth Braker, Biology)</td>
</tr>
<tr>
<td>20</td>
<td>Integral Transforms in Physics</td>
<td>Leah Feuerman</td>
<td>(Mentor: Alec Schramm, Physics)</td>
</tr>
<tr>
<td>21</td>
<td>A concise synthesis of the oncostemonols</td>
<td>Ed Sartor</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
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<tr>
<td>22</td>
<td>EMR (Electromechanical Reshaping) of cartilage and the molecular and chemical effects of water electrolysis on the tissue and cell viability</td>
<td>Anna Stokalosa</td>
<td>(Mentor: Michael Hill, Chemistry)</td>
</tr>
<tr>
<td>23</td>
<td>Connectivity of Hypsypops rubicundus Populations Across the Southern California Bight</td>
<td>Natalie Myers</td>
<td>(Mentor: Daniel Pondella, Biology)</td>
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### Poster Sessions

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<tr>
<td>24</td>
<td>Determining Lyapunov Exponents for Turbulent Rayleigh-Benard Convection</td>
<td>Michael Kwan</td>
<td>(Mentor: Janet Scheel, Physics)</td>
</tr>
<tr>
<td>25</td>
<td>Spatial Graphs</td>
<td>Max Marion</td>
<td>(Mentor: Ramin Naimi, Mathematics)</td>
</tr>
<tr>
<td>26</td>
<td>Expressing and Purifying Ephrin and the Copper A Domain of Cyt C Oxidase</td>
<td>Harine Park</td>
<td>(Mentor: Michael Hill, Chemistry)</td>
</tr>
<tr>
<td>27</td>
<td>Studying Stereoselective Sigmatropic Rearrangements Using Glutamic Acid Derivatives</td>
<td>Tina Zolfaghari</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
</tr>
<tr>
<td>28</td>
<td>Transport of Non-Neutral Plasma in Asymmetric Electric Fields</td>
<td>Quinn Taylor</td>
<td>(Mentor: Dennis Eggleston, Physics)</td>
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<tr>
<td>29</td>
<td>Niche modelling for at-risk salamanders: predicting current and future distributions for Batrachoseps gabrieli with changing climate and habitat</td>
<td>Pavlina Slezak</td>
<td>(Mentor: Amanda Zellmer, Biology)</td>
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<tr>
<td>31</td>
<td>Examining the role of self-protection protein Bd3460 in bacterial predator B. bacteriovor us within its unique spatially-organized film with prey E. coli</td>
<td>Angel Leus</td>
<td>(Mentor: Eileen Spain, Chemistry)</td>
</tr>
<tr>
<td>32</td>
<td>An Urban Jungle: Environmental Niche Modeling of Feral Parrots in Los Angeles</td>
<td>Rowdy Freeland</td>
<td>(Mentor: John McCormack, Biology)</td>
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<tr>
<td>33</td>
<td>Training improves accuracy of citizen scientist wildlife identifications from camera trap photos</td>
<td>Roshni Katrak-Adefowora</td>
<td>(Mentor: Amanda Zellmer, Biology)</td>
</tr>
<tr>
<td>34</td>
<td>Developing a simple one-step method for bioconjugation reactions using CLICK chemistry</td>
<td>Chandler Smith</td>
<td>(Mentor: Andrew Udit, Chemistry)</td>
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<tr>
<td>35</td>
<td>Mechanistic Investigation of Salt Induced AuNP Aggregation with UV/visible Spectrometry and Dynamic Light Scattering</td>
<td>Trevor Nash</td>
<td>Eileen Spain, Chemistry</td>
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<tr>
<td>36</td>
<td>Moore Laboratory Biodiversity Specimens and Field Notes as Tools for Citizen Science: Assessing a Century of Environmental Change in Mexico</td>
<td>Betty Du</td>
<td>John McCormack, Biology</td>
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<tr>
<td>37</td>
<td>Raman and FTIR Analysis of Methane in Olivine</td>
<td>Annika Smith</td>
<td>Chris Oze, Geology</td>
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<tr>
<td>38</td>
<td>Expression, Purification, and Classification of the Ephrin Protein</td>
<td>Christy Wong</td>
<td>Michael Hill, Chemistry</td>
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<tr>
<td>39</td>
<td>A Quest for Citizenship: Septima Clark's Dedication to Literacy as a Tool for Equality</td>
<td>Rosa Pleasant</td>
<td>Sharla Fett, History</td>
</tr>
<tr>
<td>40</td>
<td>Efficient Search Over Episodic Memory Using Classification Labels</td>
<td>Chloe Zeller</td>
<td>Justin Li, Cognitive Science</td>
</tr>
<tr>
<td>41</td>
<td>The Effects of Anaerobic Exercise Combined with Music on Working Memory and Time Perception</td>
<td>Vanessa Nguyen</td>
<td>Carmel Levitan, Cognitive Science</td>
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<td>42</td>
<td>Electromechanical Reshaping of Cartilage and the Molecular and Chemical Effects of Water Electrolysis on Tissue and Cell Viability</td>
<td>Lynn He</td>
<td>Michael Hill, Chemistry</td>
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<tr>
<td>43</td>
<td>Trans Generational Trauma: Internment's Lasting Impact on the Japanese American Community</td>
<td>Rosie Yasukochi</td>
<td>Paul Nam, History</td>
</tr>
<tr>
<td>44</td>
<td>Asymmetric Cobalticinium Molecules for Mediated Electrochemical Biocatalysis</td>
<td>Joey Najjar</td>
<td>Andrew Udit, Chemistry</td>
</tr>
<tr>
<td>46</td>
<td>Electrochemical hydrolysis of fat</td>
<td>Lucas Moran</td>
<td>Michael Hill, Chemistry</td>
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<td>Last Name</td>
<td>Session</td>
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<td>Barnett</td>
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<td>Barrett</td>
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<tr>
<td>Bhatia</td>
<td>Oral 2C</td>
<td>10:20 AM</td>
<td>Fowler 202</td>
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<td>Bowers</td>
<td>Poster 2</td>
<td>2:30 PM</td>
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<tr>
<td>Brown</td>
<td>Oral 3E</td>
<td>11:15 AM</td>
<td>Fowler 302</td>
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<tr>
<td>Campuzano</td>
<td>Poster 1</td>
<td>1:30 PM</td>
<td>7</td>
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<tr>
<td>Chen</td>
<td>Oral 2C</td>
<td>10:35 AM</td>
<td>Fowler 202</td>
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<tr>
<td>Chun</td>
<td>Oral 2A</td>
<td>9:50 AM</td>
<td>Fowler 111</td>
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<td>Chung</td>
<td>Oral 2D</td>
<td>9:50 AM</td>
<td>Fowler 209</td>
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<td>Clancy</td>
<td>Oral 3C</td>
<td>11:45 AM</td>
<td>Fowler 202</td>
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<tr>
<td>Clendenning</td>
<td>Oral 2E</td>
<td>10:35 AM</td>
<td>Fowler 309</td>
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<tr>
<td>Convy</td>
<td>Poster 2</td>
<td>2:30 PM</td>
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<tr>
<td>Corkrean</td>
<td>Oral 3A</td>
<td>11:00 AM</td>
<td>Fowler 111</td>
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<tr>
<td>Crooke</td>
<td>Poster 1</td>
<td>1:30 PM</td>
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<tr>
<td>Cullip</td>
<td>Poster 2</td>
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## Presentations in alphabetical order, by student:

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<td>David Barnett '20</td>
<td>Synthesis of Furanolactone Cores via Ketyl Radical Cyclization Using a Ruthenium Catalyst</td>
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<td>Holly Barrett '18</td>
<td>Optimization of a mouse model for testing Corynebacterium pseudotuberculosis vaccines</td>
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<td>Rhea Bhatia '19</td>
<td>Deprivation Induced Hyperactivity: Looking at Energy Balance in Rats</td>
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<td>Games for Gains: The Effects of Video Games on Motor Learning Skills</td>
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<td>Diastereoselective Synthesis of Unnatural Amino Acids via an Auxiliary-directed Enolate Alkylation</td>
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<td>Developing the framework for a vaccine against Corynebacterium pseudotuberculosis</td>
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<td>Factors that affect how anxiety motivates people</td>
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<td>America's Chinese Coolie Slave Trade: A debate of morality between the North and the South</td>
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**Mentor:**
- Jeffrey Cannon
- Stuart Rugg
- Roberta Pollock
- Jeffrey Cannon
- Karen Molinder
- Brian Kim
- Jane Hong
- Alexander Day

**Major:**
- Chemistry
- Kinesiology
- Biochemistry
- Chemistry
- Psychology
- History
- History

**Funding:**
- American Chemical Society Grant to Dr. Cannon
- URC Summer Research Fellowship
- Norris Science Scholar
- Fletcher-Jones Science Scholar
- Arnston Memorial Essay Award
- URC Summer Research Fellowship

**Fowler Room:**
- 202
- 302
- 111
- 209
Miranda Clancy '18
Colonialization Through Food Documentation
Fowler 202, 11:45 AM
Mentor: Ari Laskin
Major: Media Arts & Culture
Funding: Robert W. Winter History of Art & Architecture Summer Research Fellowship

Ryan Corkrean '18
Analyses of Turbulent Behaviors in Rayleigh-Bénard Convection
Fowler 111, 11:00 AM
Mentor: Janet Scheel
Major: Physics
Funding: Norris Research Endowment

Lani Cupo '17
Mahila unite: trauma care and women's empowerment in Nepal
Fowler 209, 9:00 AM
Mentor: Aleksandra Sherman
Major: Cognitive Science
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Samuel Clendenning '18
The Aporia of European Hosting: Axiomatics in the Undoing and Reinvention of Hospitality
Fowler 309, 10:35 AM
Mentor: G. Elmer Griffin
Major: Critical Theory and Social Justice, Comparative Studies in Literature and Culture
Funding: URC Summer Research Fellowship

Anne Marie Crooke '19
Synthesis of Furanolactone Structural Motifs via Reductive Ketyl Radical Cyclization
Academic Commons, Session 1, Poster 5
Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: American Chemical Society Grant to Dr. Cannon

Sarah Dalessi '18
Tracking RR Lyrae Variable Stars
Fowler 111, 11:15 AM
Mentor: Charles Oravec
Major: Physics, Comparative Studies in Literature and Culture
Funding: Ford Research Mentor's Endowment

Ian Convy '18
Kinetics study of water oxidation catalyst
Academic Commons, Session 2, Poster 2
Mentor: Michael Hill
Major: Chemistry
Funding: URC Summer Research Fellowship

Charlotte Cullip '19
Characteristics of CuA and Cytochrome c552 on Self-Assembled Thiol Monolayers on Gold Electrodes
Academic Commons, Session 2, Poster 6
Mentor: Michael Hill
Major: Chemistry
Funding: National Science Foundation, COSMOS Grant

EvaMarie David '19
Adolescents’ Experiences of Loneliness in School
Academic Commons, Session 2, Poster 8
Mentor: Andrea Hopmeyer
Major: Psychology
Funding: Ford Research Mentor's Endowment
Cora Davies ‘19
Bee diversity on native summer-flowering plants in Los Angeles County
Academic Commons, Session 1, Poster 11

Mentor: Elizabeth Braker
Major: Biology
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Kathleen DeCoste ‘18
A Cross-Cultural Study of Loneliness Among Emerging Adults in College
Academic Commons, Session 2, Poster 16

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

Betty Du ‘18
Moore Laboratory Biodiversity Specimens and Field Notes as Tools for Citizen Science: Assessing a Century of Environmental Change in Mexico
Academic Commons, Session 2, Poster 36

Mentor: John McCormack
Major: Biology, History
Funding: Ford Research Mentor's Endowment

Natalie Dwulet ‘17
Development of an auxiliary-directed enolate alkylation for unnatural amino acid synthesis
Academic Commons, Session 1, Poster 9

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Donald R. Deardorff Endowed Undergraduate Summer Research Fellowship in Chemistry

Daniel Essayan ‘19
Synthesis of Unnatural Amino Acids using a Chiral Auxiliary
Academic Commons, Session 1, Poster 13

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Cleland Endowed Undergraduate Summer Research Fellowship in Organic Chemistry

Leah Feuerman ‘18
Integral Transforms in Physics
Academic Commons, Session 2, Poster 20

Mentor: Alec Schramm
Major: Physics
Funding: Ford Research Mentor's Endowment

Marcus Forbes ‘18
The Poster; Flow and Forces in the Fascist Formation of the Black Ballplayer: A Deleuzian Analysis
Fowler 309, 10:20 AM

Mentor: G. Elmer Griffin
Major: Critical Theory and Social Justice
Funding: Ford Research Mentor's Endowment

Hannah Fishbein ‘19
Cultivation of virtuous character traits in young scientists and the development of ethical research practices
Fowler 209, 11:15 AM

Mentor: Clair Morrissey
Major: Philosophy
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Katherine Forbes ‘18
Synthesizing Furanolactone Motifs through Photoredox/Lewis Acid-Catalyzed Ketyl Radical Cyclizations
Fowler 302, 11:00 AM

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: American Chemical Society Division of Organic Chemistry Summer Undergraduate Research Fellowship
Nicholas Foy ’17

Synthesizing Furanolactones Using Reductive Ketyl Radical Cyclizations
Academic Commons, Session 1, Poster 17

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Mark Paulsen ’10 Summer Fellowship in Chemical Science

Rowdy Freeland ’19

An Urban Jungle: Environmental Niche Modeling of Feral Parrots in Los Angeles
Academic Commons, Session 2, Poster 32

Mentor: John McCormack
Major: Biology
Funding: Ford Research Mentor's Endowment

Mark Gad ’18

From Sequence to Activity: Synthetic Neuroexcitatory Peptides from Fish Hunting Cone Snails
Fowler 209, 9:30 AM

Mentor: Joseph Schulz
Major: Biochemistry
Funding: Chemistry and Biochemistry Summer Research Fellowship

Madeline Gillman ’18

Using Physiological Traits and Future Climate Models to Predict the Distribution of Valley Oak
Academic Commons, Session 1, Poster 15

Mentor: Gretchen North
Major: Biology
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Chelsie Goins ’19

Gentrification in Leimert Park: Exploring Perceptions of Community and Security
Fowler 309, 11:15 AM

Mentor: Regina Freer
Major: Politics, Sociology
Funding: Mary S. Caswell Endowment

Danica Gressel ’18

Cobalticinium Derivatives as Mediators for Biocatalysis of P450
Academic Commons, Session 2, Poster 10

Mentor: Andrew Udit
Major: Chemistry
Funding: Ford Research Mentor's Endowment

Clarasophia Gust ’19

Building Connection to Community through Connection to Nature within Ecological Research
Fowler 209, 11:00 AM

Mentor: Clair Morrissey
Major: Biology
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Jacob Gutierrez ’19

New Approaches to Store Solar Energy: Controlled Photovoltaic Power Demonstrator
Fowler 112, 10:20 AM

Mentor: Gabriel Freiman
Major: Physics
Funding: National Science Foundation, COSMOS Grant

Joscelyn Guzman ’18

Interrogating the role of educational pedagogies when addressing female circumcision in the Gikuyu community
Fowler 309, 11:30 AM

Mentor: Kristi Upson-Saia
Major: Religious Studies
Funding: Ford Research Mentor's Endowment
Bennett Harrison ‘19

Video and Envelopment in Dogme
95
Fowler 112, 11:15 AM

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

Hannah Hayes ‘18

Diversity of Native Bee Sunflower Visitors across an Urbanization Gradient
Academic Commons, Session 1, Poster 19

Mentor: Elizabeth Braker
Major: Biology
Funding: Ford Research Mentor's Endowment

Lynn He ‘19

Electromechanical Reshaping of Cartilage and the Molecular and Chemical Effects of Water Electrolysis on Tissue and Cell Viability
Academic Commons, Session 2, Poster 42

Mentor: Michael Hill
Major: Chemistry
Funding: URC Summer Research Fellowship

Ethan Heffernan ‘19

Looking for the Invisible: Installation of Gas Mix System for DriftIIG Dark Matter Detector
Fowler 111, 11:45 AM

Mentor: Daniel Snowden-Ifft
Major: Physics
Funding: National Science Foundation, COSMOS Grant

Maria Hernandez ‘19

Dismantling Skinny In Academia: Legitimizing Fatphobia and Addressing Fat Microaggressions in a Classroom
Fowler 309, 10:05 AM

Mentor: Erica Ball
Major: Latino/a and Latin American Studies, Psychology
Funding: Arnston Memorial Essay Award

Eushrah Hossain ‘18

Manipulating the Conflict between Science and Intuition
Fowler 202, 9:20 AM

Mentor: Andrew Shtulman
Major: Cognitive Science
Funding: James S. McDonnell Foundation

Roshni Katrak-Adefowora ‘19

Training improves accuracy of citizen scientist wildlife identifications from camera trap photos
Academic Commons, Session 1, Poster 33

Mentor: Amanda Zellmer
Major: Biology
Funding: National Science Foundation, COSMOS Grant

Zulema Iboa Garcia ‘18

Patient Retention in Antiretroviral Treatment Program at St. Francis Health Care Services in Uganda: Factors Affecting Retention
Fowler 309, 11:45 AM

Mentor: Richard Mora
Major: Spanish, Sociology
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Peter Johnson ‘19

The Aesthetics of Finitude in Kant and Kierkegaard
Fowler 112, 11:00 AM

Mentor: Bryan Klausmeyer
Major: Comparative Studies in Literature and Culture
Funding: Ford Research Mentor's Endowment

Maria Hernández ‘19

Dismantling Skinny In Academia: Legitimizing Fatphobia and Addressing Fat Microaggressions in a Classroom
Fowler 309, 10:05 AM

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Funding: James S. McDonnell Foundation

Roshni Katrak-Adefowora ‘19

Training improves accuracy of citizen scientist wildlife identifications from camera trap photos
Academic Commons, Session 1, Poster 33

Mentor: Amanda Zellmer
Major: Biology
Funding: National Science Foundation, COSMOS Grant
Hallaamal Keir ‘19
Occidental's Investment Dilemma: using histories to explore the future of Socially Responsible Investing at Occidental.
Fowler 111, 10:05 AM
Mentor: Regina Freer
Major: Diplomacy and World Affairs
Funding: Undergraduate Research Fund for Corporate Responsibility

Ruby Koontz ‘18
Olfactory Kin Recognition in HIS/LoS Rats: Smelling A Sweet Tooth
Fowler 202, 10:05 AM
Mentor: Nancy Dess
Major: Psychology
Funding: Gift of Dr. Andrew F. Newcomb ’75

Michael Kwan ‘20
Determining Lyapunov Exponents for Turbulent Rayleigh-Benard Convection
Academic Commons, Session 2, Poster 24
Mentor: Janet Scheel
Major: Physics
Funding: Ford Research Mentor’s Endowment

Claudia Lechner ‘19
Self-Perceptions of Social Status in Adolescence
Academic Commons, Session 2, Poster 12
Mentor: Andrea Hopmeyer
Major: Psychology
Funding: Ford Research Mentor’s Endowment

Alex Lee ‘18
Poetry as Protest: Angel Island Detainee Poetry and Everyday Resistance, 1910-1940
Fowler 209, 10:05 AM
Mentor: Xiao-huang Yin
Major: American Studies
Funding: Mellon Arts, Humanities, Social Sciences

Angel Leus ’17
Examing the role of self-protection protein Bd3460 in bacterial predator B. bacteriovorus within its unique spatially-organized film with prey E. coli
Academic Commons, Session 1, Poster 31
Mentor: Eileen Spain
Major: Biochemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Promise Li ‘18
Feeling Digital: Queer Innovation and Archival Technologies
Fowler 309, 9:50 AM
Mentor: Heather Lukes
Major: English, Critical Theory and Social Justice
Funding: Mellon Arts, Humanities, Social Sciences

Cory Lomberg ’18
"So We Did It Ourselves": Documenting the Trajectories of L.A.'s Shuttered Artist-Run Venues
Fowler 202, 11:00 AM
Mentor: Shana Lorenz
Major: English
Funding: Mellon Arts and Urban Experience

Nan Ma ’18
Measurement of Neutron Flux at a Shallow Depth
Fowler 111, 11:30 AM
Mentor: Daniel Snowden-Ifft
Major: Physics
Funding: Norris Science Scholar
Devon Mann ’19
Manipulating the Conflict between Science and Intuition
Fowler 202, 9:20 AM

Mentor: Andrew Shtulman
Major: Cognitive Science
Funding: James S. McDonnell Foundation

Max Marion ‘18
Spatial Graphs
Academic Commons, Session 1, Poster 25

Mentor: Ramin Naimi
Major: Mathematics
Funding: Ford Research Mentor's Endowment

David Mariscal ‘18
Study of New Minimum Wage Law on Low-Income Workers in the City of Pasadena
Fowler 112, 9:00 AM

Mentor: Peter Dreier
Major: Urban and Environmental Policy
Funding: Walter B. Gerken Summer Research Fellowship

Kelsey Martin ’19
United American Indian Involvement Photo Archival Project: Decolonizing the Archive
Fowler 202, 11:30 AM

Mentor: Nancy Mithlo
Major: Sociology
Funding: Mellon Arts, Humanities, Social Sciences

Marshall Meyer ‘18
(Im)mortality, the Unthinkable: Deconstruction, Psychoanalysis, and the Question of Desire
Fowler 112, 11:45 AM

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

Lucas Moran ’21
Electrochemical hydrolysis of fat
Academic Commons, Session 2, Poster 46

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

Belén Moreno ’18
“What would you do without this army of 72,000 dark skinned workers?": Inter-ethnic coalitions among California farmworkers in the Great Depression
Fowler 209, 10:20 AM

Mentor: Jeremiah B.C. Axelrod
Major: History
Funding: Ford Research Mentor's Endowment

Natalie Myers ‘18
Connectivity of Hypsypops rubicundus Populations Across the Southern California Bight
Academic Commons, Session 1, Poster 23

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

Kerensa Nagle ’19
Acquaintance Prior to a Food Competition Affects Development of Social Hierarchy in Rats
Fowler 202, 9:50 AM

Mentor: Nancy Dess
Major: Psychology, Theater
Funding: URC Summer Research Fellowship
Joey Najjar ‘19
Asymmetric Cobalticinium Molecules for Mediated Electrochemical Biocatalysis
Academic Commons, Session 2, Poster 44
Mentor: Andrew Udit
Major: Chemistry
Funding: URC Summer Research Fellowship

Trevor Nash ‘17
Mechanistic Investigation of Salt Induced AuNP Aggregation with UV/visible Spectrometry and Dynamic Light Scattering
Academic Commons, Session 1, Poster 35
Mentor: Eileen Spain
Major: Chemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Vanessa Nguyen ‘19
The Effects of Anaerobic Exercise Combined with Music on Working Memory and Time Perception
Academic Commons. Session 1, Poster 41
Mentor: Carmel Levitan
Major: Cognitive Science
Funding: Walter C. and Patricia Harris Mack Undergraduate Summer Research Fund

Scott Niman ‘18
Total Synthesis of DAB-1
Fowler 302, 11:30 AM
Mentor: Derek Ross
Major: Chemistry
Funding: URC Summer Research Fellowship

Alma Olavarria Gallegos ‘19
Roots of Programs at Oxy
Fowler 309, 11:00 AM
Mentor: Dale Stieber
Major: Critical Theory and Social Justice
Funding: URC Summer Research Fellowship

Samuel Page ‘19
Manufacturing Nations Before States: A Survey of Nationality as the Ground of Soviet and Post-Soviet Political Thought in Russia
Fowler 112, 11:30 AM
Mentor: Walter Richmond
Major: Comparative Studies in Literature and Culture, DWA
Funding: URC Summer Research Fellowship

Harine Park ‘19
Expressing and Purifying Ephrin and the Copper A Domain of Cyt C Oxidase
Academic Commons, Session 2, Poster 26
Mentor: Michael Hill
Major: Chemistry
Funding: URC Summer Research Fellowship

Sandy Pattison ‘19
Anti Racist Organizing in a “Post Racial” Society: The Efficacy of Dialogue Based Undoing Racism In White Communities
Fowler 111, 10:20 AM
Mentor: Amy Tahani-Bidmeshki
Major: American Studies, Spanish
Funding: Mellon Arts, Humanities, Social Sciences

Josie Pesce ‘18
Memoir Excerpt Reading
Fowler 209, 11:30 AM
Mentor: Sarah Ostendorf
Major: Media Arts & Culture
Funding: Argonaut Summer Research Award in Creative Writing
Lesley Pilgrim ’18  
**Investigating Children’s Cognitive Reflection**  
Fowler 202, 9:00 AM

Mentors: Andrew Shtulman and Andrew Young  
Major: Psychology  
Funding: James S. McDonnell Foundation

Gyan Prayaga ’20  
**Carbon-Based Supercapacitors for Photovoltaic Applications**  
Fowler 112, 10:35 AM

Mentor: Gabriel Freiman  
Major: Undeclared  
Funding: URC Summer Research Fellowship

Ed Sartor ’17  
**A concise synthesis of the oncostemonols**  
Academic Commons, Session 1, Poster 21

Mentor: Jeffrey Cannon  
Major: Chemistry  
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Rosa Pleasant ’18  
**A Quest for Citizenship: Septima Clark’s Dedication to Literacy as a Tool for Equality**  
Academic Commons, Session 1, Poster 39

Mentor: Sharla Fett  
Major: American Studies  
Funding: Ray A. Billington Endowment

Annie Rorick ’18  
**Generating a Heparin Substitute Using Sulfated Virus Nanoparticles**  
Academic Commons, Session 2, Poster 14

Mentor: Andrew Udit  
Major: Chemistry  
Funding: URC Summer Research Fellowship

Matthew Schmidt ’18  
**Method Development for Synthesis of Novel bis-5-alkylresorcinol**  
Fowler 302, 11:45 AM

Mentor: Jeffrey Cannon  
Major: Biochemistry  
Funding: Gift from Barbara and Dr. Richard Proffitt ’66

Allison Powers ’19  
**Investigating Children’s Cognitive Reflection**  
Fowler 202, 9:00 AM

Mentors: Andrew Shtulman and Andrew Young  
Major: Psychology  
Funding: James S. McDonnell Foundation

Ben Sappey ’18  
**Synthesis of electron Transfer Chain to Cytochrome P450**  
Academic Commons, Session 2, Poster 18

Mentors: Michael Hill and Andrew Udit  
Major: Physics  
Funding: Research Corporation Grant to Prof. Udit

Jack Schofield ’19  
**From the Mariel Boatlift to the Pulse Nightclub: The United States’ Weaponization of Equality**  
Fowler 111, 10:35 AM

Mentor: Alexandra Puerto  
Major: History  
Funding: Ray A. Billington Endowment
Luke Schulert ’18
Cytochrome p450 as a Viable Biocatalyst: Elucidating Optimal Surfactant Ratios via Electrochemical Methods
Academic Commons, Session 2, Poster 30
Mentor: Andrew Udit
Major: Biochemistry
Funding: Miller-Van Gerpen Endowed Summer Research Fellowship

Audrey Shawley ’18
Parasites, Raw Fish, and Cancer: Characterization of Diagnostic Targets for Liver-fluke Associated Cholangiocarcinoma in Northern Thailand
Fowler 112, 9:50 AM
Mentor: Chris Craney
Major: Biochemistry
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Pavlina Slezak ’19
Niche modelling for at-risk salamanders: predicting current and future distributions for Batrachoseps gabrieli with changing climate and habitat
Academic Commons, Session 1, Poster 29
Mentor: Amanda Zellmer
Major: Biology
Funding: URC Summer Research Fellowship

Annika Smith ’18
Raman and FTIR Analysis of Methane in Olivine
Academic Commons, Session 1, Poster 37
Mentor: Chris Oze
Major: Geology
Funding: URC Summer Research Fellowship

Chandler Smith ’19
Developing a simple one-step method for bioconjugation reactions using CLICK chemistry
Academic Commons, Session 2, Poster 34
Mentor: Andrew Udit
Major: Chemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Olivia Stevens ’18
Bats
Fowler 209, 9:15 AM
Mentor: Elizabeth Braker
Major: Biology
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Anna Stokalosa ’18
EMR (Electromechanical Reshaping) of cartilage and the molecular and chemical effects of water electrolysis on the tissue and cell viability
Academic Commons, Session 2, Poster 22
Mentor: Michael Hill
Major: Biochemistry
Funding: Fletcher-Jones Chemistry and Biochemistry Research Endowment

Snigdha Suvarna ’20
TOPS Identity Project: How High School Students Gain Interest Towards STEM Through the Use of Social Media
Fowler 112, 10:05 AM
Mentor: Chris Craney
Major: Undeclared
Funding: TOPS

Quinn Taylor ’19
Transport of Non-Neutral Plasma in Asymmetric Electric Fields
Academic Commons, Session 2, Poster 28
Mentor: Dennis Eggleston
Major: Physics
Funding: URC Summer Research Fellowship
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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>Yiyun Wang '18</td>
<td>Tax for happiness? The impact of tobacco taxes on smoker satisfaction</td>
<td>Fowler 209</td>
<td>10:35 AM</td>
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<td></td>
<td>Mentor: Brandon Lehr</td>
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<td></td>
<td>Major: Economics, Mathematics</td>
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<td>Funding: Gift from Naomi N. Kurata and Fred Kurata, M.D. '71</td>
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<td>Chance Ward '18</td>
<td>Bare Life: A Recentering of Black Queer Femininity</td>
<td>Fowler 209</td>
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<td>Mentor: Julie Prebel</td>
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<td>Major: Critical Theory and Social Justice</td>
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<td>Eleanor Wells '18</td>
<td>Impact of Minimum Wage Ordinance on Low-Wage Workers in Pasadena</td>
<td>Fowler 112</td>
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<td>Mentor: Peter Dreier</td>
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<td></td>
<td>Major: Spanish, Sociology</td>
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<td>Funding: Institute for the Study of Los Angeles (ISLA) Fellowship</td>
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<td>Allison Wendt '18</td>
<td>Institutionalizing Black Arts in the City: The Communicative Arts Academy in Compton</td>
<td>Fowler 202</td>
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<td>Mentor: Amy Lyford</td>
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<td></td>
<td>Major: Visual Art &amp; Art History: Studio Emphasis</td>
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<td>Funding: Mellon Arts and Urban Experience</td>
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<td>Janice Wong</td>
<td>The Food Loop: The Expansion and Use of Fertilizers in Capitalist and Socialist Agriculture</td>
<td>Fowler 112</td>
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<td>Mentor: Alexander Day</td>
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<td>Funding: The Henry Luce Foundation</td>
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<td>MacKenna Wenzl '18</td>
<td>Study of New Minimum Wage Law on Low-Income Workers in the City of Pasadena</td>
<td>Fowler 112</td>
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<td>Rosie Yasukochi '18</td>
<td>Trans Generational Trauma: Internment's Lasting Impact on the Japanese American Community</td>
<td>Fowler 112</td>
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<td>Academic Commons, Session 1, Poster 43</td>
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<td>Mentor: Paul Nam</td>
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<td></td>
<td>Major: Studio Art</td>
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<td>Funding: Mellon Arts and Urban Experience</td>
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<td>Christy Wong '18</td>
<td>Expression, Purification, and Classification of the Ephrin Protein</td>
<td>Academic Commons, Session 2, Poster 38</td>
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<td>Mentor: Michael Hill</td>
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<td>Major: Biochemistry</td>
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<td>Funding: Chemistry and Biochemistry, Summer Research Fellowship</td>
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<tr>
<td>Chloë Zeller '19</td>
<td>Efficient Search Over Episodic Memory Using Classification Labels</td>
<td>Academic Commons, Session 2, Poster 40</td>
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<td>Mentor: Justin Li</td>
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<td></td>
<td>Major: Cognitive Science, Mathematics</td>
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<td>Funding: URC Summer Research Fellowship</td>
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Tina Zolfaghari ’18

Studying Stereoselective Sigmatropic Rearrangements Using Glutamic Acid Derivatives
Academic Commons, Session 1, Poster 27

Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: Gift from Barbara and Dr. Richard Proffitt ’66
Funding

Thank you!

Occidental College gratefully acknowledges the generosity of the following donors to the Undergraduate Research Center. Nearly three decades of rich and transformative faculty-student research opportunities have been made possible by this support. Thank you for enabling Occidental to continue on with this proud tradition.

Endowments/Foundations:

- American Chemical Society
- Argonaut Creative Writing Fund
- Arnston Memorial Award Endowment
- Ray A. Billington Endowment
- Mary S. Caswell Endowment
- Chemistry and Biochemistry Summer Research Fellowship
- Christine Chui and Robert T.K. Chui, MD ‘72 Endowed Fund for Undergraduate Research
- Professor George H. Cleland Endowed Undergraduate Summer Research Fellowship in Organic Chemistry
- Donald R. Deardorff Endowed Undergraduate Summer Research Fellowship for Chemistry
- The Fletcher Jones Foundation
- Ford Foundation Research Fellows Endowment
- Walter B. Gerken Fellowship in Public Policy
- Naomi N. Kurata and Fred K. Kurata, M.D. ‘71/Kurata Endowed Biology Fund
- Institute for the Study of Los Angeles

- Walter C. and Patricia Harris Mack Undergraduate Summer Research Fund
- James S. McDonnell Foundation
- Mellon Foundation
- Miller-Van Gerpen Endowment
- Barbara Proffitt and Dr. Richard T. Proffitt ‘66
- The Paul K. & Evalyn E. Cook Richter Trusts
- National Science Foundation
- National Institutes of Health
- The Kenneth T. and Eileen L. Norris Foundation
- Mark Paulsen ‘10 Endowed Research Fellowship in the Chemical Sciences
- The Will J. Reid Foundation
- Research Corporation
- Don and Priscilla Smith Endowment for Summer Undergraduate Research
- John Stauffer Charitable Trust
- Summer Faculty/Student Research Endowment
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Dr. Jeffrey S. Cannon ’07; Kathryn A. Cannon, J.D. ’82 and Jerome R. Cannon P ’07; Coastal Community Foundation; Dr. Franklin De Haan; Katharine D. Hagen ’07; Jamie R. Herrera ’07; Naomi N. Kurata and Fred K. Kurata, M.D. ’71; Dr. Tina M. Park-Lee and Dr. Gilbert H. Lee P’17; Sally Madiba ’14; Patricia H. Mack ’52; Dr. Dennis K. Mitchell; Patricia A. Montano ’04; Janet Morris ’87; Andrew F. Newcomb ’75; Dr. Bimal R. Patel ’90; Barbara Proffitt and Dr. Richard T. Proffitt ’66; The T. Rowe Price Program for Charitable Giving; Carol S. Roe and David B. Roe P’05; Schwab Fund for Charitable Giving; Dr. Sarah V. Studer ’03; Su Lee Stark and Dr. Thomas E. Stark P’12; Dr. David Scott Talaga ’91; Owen H. Thomas ‘07; Yuxin Xu; Mara J. Zlotoff and Stanley A. Zlotoff P ’05 P ’08; Michael J. Zlotoff ’05

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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.

2017 Summer Research Program Selection Committee

Andrew Shtulman (Chair)
  John Bouchard
  Mary Christianakis
  G. Elmer Griffin

Diana Ngo
  Daniel Pondella
  Eric Sundberg

Faculty Mentors

Jeremiah B. C. Axelrod
  Erica Ball
  Elizabeth Braker

Jeffrey Cannon (1)(2)(3)
  Dale Chapman
  Chris Craney (3)
  Alexander Day
  Nancy Dess (3)

Peter Dreier (1)(3)
  Sophal Ear

Dennis Eggleston
  Sharla Fett
  Regina Freer
  Gabriel Freiman
  G. Elmer Griffin
  Michael Hill
  Jane Hong (3)

Andrea Hopmeyer
  Brian Kim (2)
  Bryan Klausmeyer
  Ari Laskin
  Brandon Lehr (3)
  Carmel Levitan

Justin Ning Hui Li (2)(3)
  Shanna Lorenz
  Heather Lukes
  Amy Lyford (2)(3)
  John McCormack
  Nancy Marie Mithlo
  Karen Molinder
  Richard Mora
  Clair Morrissey (1)(2)(3)
  Ramin Naimi
  Paul Nam
  Aram Nersissian *
  Gretchen North
  Charles Oravec
  Sarah Ostendorf
  Chris Oze
  Roberta Pollock
  Daniel Pondella
  Julie Prebel
  Alexandra Puerto
  Walter Richmond
  Derek Ross
  Stuart Rugg

Janet Scheel (3)
  Alec Schramm (2)
  Joseph Schulz
  Aleksandra Sherman (3)
  Andrew Shtulman (1)
  Dan Snowden-Ifft (1)
  Eileen Spain
  Dale Ann Steiber
  Damian Stocking (1)(2)(3)
  Amy Tahini-Bidmeshki (1)
  Andrew Udit (1)
  Kristi Upson-Saia (3)
  Xiao-huang Yin
  Andrew Young (3)
  Amanda Zellmer (1)

* = deceased

Also served as:
(1) = Area Coordinator
(2) = Speaker or Presenter
(3) = Conference Session Moderator
Campus Departments

- Business Office
- Campus Dining
- Campus Safety
- Career Development Center
- Center for Digital Liberal Arts
- College Library/ Academic Commons
- Communications/Marc Campos
- Conference Services
- Dean of the College Office
- Facilities Management
- Bennett Harrison ‘19, film series
- Information Technology
- Institutional Review Boards
- International Programs
- Media Services
- National Awards and Fellowships Office
- Residential Education and Housing Services
- Scholarship Technology
- Special Collections
- Strategic Initiatives

Undergraduate Research Center Staff

Karla J. Hernández    Janet Morris    Makayla Keasler

Not pictured: URC Directors: Profs. Scott Bogue and Eileen M. Spain

Program designed by: Makayla Keasler ‘20

Front cover photo of 2017 SRP fellows and mentors: Marc Campos
In Memoriam

Prof. Boesche with his wife, Mandy, at the 2017 Commencement Ceremony.

Prof. Roger Boesche
(1948 - 2017)
Occidental College politics professor for 40 years and longtime supporter of the Summer Research Program.

Prof. Aram Nersissian in the lab with student, Will Reeves ‘16.

Prof. Aram Nersissian
(1958 - 2017)
Occidental College associate professor of Chemistry and longtime participant in the Summer Research Program.
NOTES: