August 1, 2018

Dear Summer Research Conference Attendees,

On behalf of the Occidental College Undergraduate Research Center, it is my pleasure to welcome you to our 19th annual Summer Research Conference. We are proud today to recognize the achievements of our 2018 SRP cohort who, with guidance from their faculty mentors, have spent the last ten weeks seeking answers to a wide range of scholarly questions.

Since the 1980s, 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.

With over 130 students, this is our largest conference to date. Putting together a conference of this size can be challenging, but it’s also exciting for us to see how our program has grown. Making undergraduate research happen at Oxy is a campus-wide effort. Our students are supported not only 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 making this program and the annual conference a success.

Thank you very much for taking time to attend and learn about our students’ 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 fully appreciate the scope of Oxy’s Summer Research Program.

Congratulations to our student presenters and best wishes to everyone for an exciting day!

Janet Morris ’87
Director of Undergraduate Research
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.

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
2018 Summer Undergraduate Research Conference
Schedule of Events ● August 1, 2018

All day, repeating  Screening of vintage scenes from Oxy, film provided by Special Collections. Main Floor, Academic Commons, circulation area.

8:00 AM  Poster set-up (for morning session)
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 112, 202, 209

11:00 AM  Poster Presentations, Session One
Library/Academic Commons, 3rd floor, "new" building side

12:00 – 12:30 PM  Intermission: Poster Presentations: Session One posters removed and Session Two posters set-up.

12:30 PM  Lunch, including brief remarks by Dean Wendy Sternberg
Gresham Dining Room (please enter through Branca Patio)

1:30 PM  Oral Presentations, Session Three
Fowler Hall, Rooms 112, 202, 209, 309

2:40 PM  Oral Presentations, Session Four
Fowler Hall, Rooms 112, 202, 209, 309

3:45 PM  Poster Presentations, Session Two
Library/Academic Commons, 3rd floor, "new" building side

4:45 PM  Conference Ends
Oral Presentations: Session 1 (9:00 – 9:45 AM)

Session 1A: Fowler 112
Session Chair: Andrew Shtulman

9:00 Conflicting beliefs about social categories
Claudia Lechner
Mentor: Andrew Shtulman, Psychology

9:00 Conflicting beliefs about social categories
Robin Pounders
Mentor: Andrew Shtulman, Psychology

9:20 When do science and intuition begin to conflict?
Isabel Geddes
Mentor: Andrew Shtulman and Andrew Young, Psychology

9:20 When do science and intuition begin to conflict?
Claire Weider
Mentor: Andrew Shtulman and Andrew Young, Psychology

Session 1B: Fowler 202
Session Chair: Janet Scheel

9:00 The Lyapunov Spectrum for Turbulent Rayleigh-Bénard Convection
Michael Kwan
Mentor: Janet Scheel, Physics

9:15 Intrinsic Linking and Knotting in Directed Graphs
Ben Pagano
Mentor: Ramin Naimi, Mathematics

9:30 Reconstructing the Landing of Philae on Comet 67P
Emily Yue Liang
Mentor: Charles Oravec, Physics
**Session 1C: Fowler 209**  
*Session Chair: Cheryl Okumura*

9:00  *Group A Streptococcus ruptures the lysosomal membrane in THP-1 macrophages using pore-forming toxins*  
Scott Nishioka  
Mentor: Cheryl Okumura, Biology

9:15  *Advancing the Zebrafish Model System*  
Max Meade  
Mentor: Joseph Schulz, Biology

9:30  *Fast and Venomous: A Kinematic Study of the Cone Snail’s Prey-Hunting Mechanism*  
Ian Jan  
Mentor: Joseph Schulz, Biology

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

**Session 2A: Fowler 112**  
*Session Chair: Raul Navarro*

9:50  *Children's Thinking About Gendered Robots*  
Kallyn Song-Nichols  
Mentor: Andrew Shtulman and Andrew Young, Psychology

10:05  *Improving Automatic Bug Summarization For Maintainable Software Through Part-Of-Speech Tagging of Domain-Specific Words*  
Luis Figueroa  
Mentor: Celia Chen, Computer Science

10:20  *Comparing Word Embeddings and Information Retrieval Approaches to Affordance Extraction*  
Lijia Li  
Mentor: Justin Li, Computer Science

10:35  *Retail Store Price Uniformity*  
Craig McCall  
Mentor: Brandon Lehr, Economics
**Session 2B: Fowler 202**
**Session Chair: Daniel Snowden-Ifft**

9:50  *Solar Robot: Optimizing the Cleaning of the Occidental Solar Array*  
Olivia Addington  
Mentor: Gabriel Freiman, Physics

10:05  *Reducing Signal Noise in DRIFT-IIg Dark Matter Detector*  
Peter Elia  
Mentor: Daniel Snowden-Ifft, Physics

10:20  *Background Simulations on the Detection of Dark Matter*  
Hedda Zhao  
Mentor: Daniel Snowden-Ifft, Physics

10:35  *Solar Demonstrator for Environmental Testing*  
Jacob Gutierrez  
Mentor: Gabriel Freiman, Physics

**Session 2C: Fowler 209**
**Session Chair: Martha Matsuoka**

9:50  *Holocaust Survivors in Post-war America: An Exploration into the Myth of Silence*  
Greg Kleinman  
Mentor: Marla Stone, History

10:05  *Tragic Arithmetic: Nature of the Woven in Ancient Greek Tragedy as Mathematical*  
Chloe Wheeler  
Mentor: Damian Stocking, Comparative Studies in Literature and Culture

10:20  *Cultural Production and State Power: An Analysis of the PRC’s Intervention in the Chinese Music Industry*  
Olivia Wilk  
Mentor: Alexander Day, History

10:35  *(anti)Blackness in Japan*  
Robertia Fujino Reid  
Mentor: James Ford, English & Comparative Literary Studies

10:50  *MAU MAU women - Stories of survival from the remnants of the MAU MAU Revolution (1952-1964)*  
Waruguru Waithira  
Mentor: Movindri Reddy, DWA
## Poster Session 1

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

**11:00 AM – 12:00 PM**

<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Presenter</th>
<th>Mentor(s)</th>
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<tr>
<td>1</td>
<td>Geomagnetic Field Intensity Changes During an R-N Polarity Reversal Recorded by Mafic Lava Flows, Anahola, Kauai</td>
<td>Yiming Zhang</td>
<td>(Mentor: Scott Bogue, Geology)</td>
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<td>2</td>
<td>Synthesis of Furanolactone Motifs by Photoredox and Lewis Acid Catalyzed Ketyl Radical Cyclization</td>
<td>Paul Tomlinson</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
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<tr>
<td>4</td>
<td>Peer Popularity Among Emerging Adults in College</td>
<td>Monica Chernoff</td>
<td>(Mentor: Andrea Hopmeyer, Psychology)</td>
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<tr>
<td>5</td>
<td>A Case Study of Community-Led Development at East LA Community Corporation</td>
<td>Gabriela Elliott</td>
<td>(Mentor: Martha Matsuoka, UEP)</td>
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<td>6</td>
<td>Morphometric Relationships for Macroinvertebrates of Southern California's Rocky Reefs</td>
<td>Hannah Hoefs</td>
<td>(Mentor: Daniel Pondella, Biology)</td>
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<tr>
<td>7</td>
<td>Chaotic Desires: Embodying Creative Anarchy in the Early Russian Avant-Garde</td>
<td>Zoë Foster-La Du</td>
<td>(Mentor: Christopher Gilman, CDLA)</td>
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<tr>
<td>8</td>
<td>Methodologies for Photoredox-Catalyzed Cyclizations</td>
<td>Katherine Forbes</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
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<td>9</td>
<td>Human Mammary Epithelial Cell Organoids as Models for Aging Related Functional Markers for Breast Cancer</td>
<td>Divya Moolamalla</td>
<td>(Mentors: Mark LaBarge and Michael Todhunter, City of Hope)</td>
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<td>10</td>
<td>Saving an Endangered Language Through Technology</td>
<td>William Chen</td>
<td>(Mentor: Amy Holmes-Tagchungdarpa, Religious Studies)</td>
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<td>12</td>
<td>Stereoselective Synthesis of Unnatural Amino Acids via an Auxiliary-Directed Enolate Alkylation</td>
<td>Hailey Lister</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
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<td>13</td>
<td>Generating the Frequency of Past Earthquakes from Lake Sediment Cores in Grand Teton National Park, WY</td>
<td>Aria Blumm</td>
<td>(Mentor: Darren Larsen, Geology)</td>
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<tr>
<td>14</td>
<td>Comparing historical and current intertidal algae and invertebrate communities in MPA and non-MPA sites in the Palos Verdes Peninsula</td>
<td>Dafna Erana</td>
<td>(Mentor: Daniel Pondella, Biology)</td>
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<tr>
<td>16</td>
<td>Are Artists Better Observers?</td>
<td>Oliver Killeen</td>
<td>(Mentor: Carmel Levitan, Cognitive Science)</td>
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<tr>
<td>17</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>(Mentor: Michael Hill, Chemistry)</td>
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<tr>
<td>18</td>
<td>The Effect of Auditory Memory on Musical Preference</td>
<td>Alexander Levers</td>
<td>(Mentor: Aleksandra Sherman, Cognitive Science)</td>
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<td>19</td>
<td>Modeling electron flow in the terminal complex of aerobic respiration: interfacial electron transfer between cytochrome c and the copper-A domain of cytochrome c oxidase</td>
<td>Sierra Hunter</td>
<td>(Mentor: Michael Hill, Chemistry)</td>
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<td>20</td>
<td>Magnetic Isolation of Pure Phagosomes</td>
<td>Mitchell Johnson</td>
<td>(Mentor: Cheryl Okumura, Biology)</td>
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<td>21</td>
<td>Not Your Average Biology Textbook: Learning Science through Art</td>
<td>Naomi Field</td>
<td>(Mentor: Shana Goffredi, Biology)</td>
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<td>22</td>
<td>Impact of microenvironment water conditions on Coast Live Oak resistance to beetle vectors and affiliated fungal pathogen</td>
<td>Brianna Baker</td>
<td>(Mentor: Elizabeth Braker, Biology)</td>
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<td>23</td>
<td>Producing Cytochrome P450 Mutants for Biocatalysis</td>
<td>Elleni Bekele</td>
<td>(Mentor: Andrew Udit, Chemistry)</td>
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<tr>
<td>24</td>
<td>Increasing Motor Coordination Through Induced Alpha Wave Neural Synchrony</td>
<td>Kyle Costello</td>
<td>(Mentor: Aleksandra Sherman, Cognitive Science)</td>
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<td>Exploring the internal jungle of Costa Rican Chrysomelid beetles: Potential bacterial symbionts discovered</td>
<td>Camille Brzechffa</td>
<td>Shana Goffredi, Biology</td>
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<td>26</td>
<td>Quantitative Atomic Force Microscopy Investigation of Adhesion of a Planktonic Bacterial Predator to Biofilm Prey</td>
<td>Ruby Yuyu Chen</td>
<td>Eileen Spain, Chemistry</td>
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<td>27</td>
<td>Exploring an Extended Hybrid Zone between Blue-capped Motmot’s and Lesson’s Motmot</td>
<td>Miles Collins</td>
<td>John McCormack, Biology</td>
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<td>28</td>
<td>Nature’s Classroom: An Exploration of Outdoor Education Programs</td>
<td>Brian Lavongtheung</td>
<td>Bevin Ashenmiller, Economics</td>
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<td>29</td>
<td>Identifying and Extracting Product-Specific and Domain-Specific Words From Mozilla Bug Summaries</td>
<td>Emily Tran</td>
<td>Celia Chen, Computer Science</td>
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<td>30</td>
<td>SCOPE LA: Building Grassroots Power in South Los Angeles</td>
<td>Salma Rojas</td>
<td>Peter Dreier and Martha Matsuoka, UEP</td>
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<td>31</td>
<td>Characterization of Photoinduced Charge Transfer Intermediates in an Electrochemical Solar Cell</td>
<td>Chandler Smith</td>
<td>Michael Hill, Chemistry</td>
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<td>32</td>
<td>Efforts Toward the Total Synthesis of Swerilactone A</td>
<td>Noel Jameson</td>
<td>Raul Navarro, Chemistry</td>
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<td>33</td>
<td>Differences in microbiome diversity and abundance between sister species of Jadera; seed-eating insects from Costa Rica and California</td>
<td>Vanessa Rodriguez</td>
<td>Shana Goffredi, Biology</td>
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<td>34</td>
<td>Selective electrocatalytic hydrocarbon oxidation via high-valent iron centers in supported nanoparticles</td>
<td>Kitty Lu</td>
<td>Michael Hill, Chemistry</td>
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<td>35</td>
<td>Deprivation Induced Hyperactivity: Exploring Energy Balance in Rats</td>
<td>Rhea Bhatia</td>
<td>(Mentors: Dale Chapman and Nancy Dess, Psychology)</td>
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<td>36</td>
<td>Group A Streptococcus Decreases Vacuolar ATPase Assembly</td>
<td>Jimin Lee</td>
<td>(Mentor: Cheryl Okumura, Biology)</td>
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<td>37</td>
<td>Probing Cytochrome P450 Biocatalysis via Anaerobic Redox Titrations</td>
<td>Crystal Liang</td>
<td>(Mentor: Andrew Udit, Chemistry)</td>
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<td>38</td>
<td>Geographic Variation Among Russet Nightingale-Thrushes</td>
<td>David Mosack</td>
<td>(Mentor: John McCormack, Biology)</td>
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<td>39</td>
<td>Using Virus Nanoparticles to develop an Alternative Antagonist to Heparin</td>
<td>Andrew Park</td>
<td>(Mentor: Andrew Udit, Chemistry)</td>
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Oral Presentations: Session 3 (1:30 – 2:30 PM)

Session 3A: Fowler 112
Session Chair: Susan Geffen

1:30 Sexual Identity Management Strategies
Eric Malmquist
Mentor: Brian Kim, Psychology

1:45 The Use of Intonation in Differentiating English Statements and Questions Across Different Language Families
Connor Flynn Allison
Mentor: Susan Geffen, Psychology

2:00 Sweetness as a Measure and Modulator of Emotionality in Rats
Hannah Ash
Mentor: Dale Chapman and Nancy Dess, Psychology

Session 3B: Fowler 202
Session Chair: Julie Prebel

1:30 Techne and Being
Ciaran Gilligan
Mentor: Damian Stocking, Comparative Studies in Literature and Culture

1:45 The Aesthetic Argument for Clean Comedy
Andrew Henson
Mentor: Clair Morrissey, Philosophy

2:00 Fostering Community Through Creativity-Based Women's Organizations
Nell Farrow
Mentor: Julie Prebel, Writing and Rhetoric

2:15 The Bone of Contention
K. Cancel
Mentor: Zinzi Clemmons, English & Comparative Literary Studies
Session 3C: Fowler 209  
Session Chair: Robin Craggs

1:30  *Engaging residents of affordable and supportive housing in tenant's rights advocacy and related public policy*  
Hailey Gil  
Mentor: Peter Dreier, UEP

1:45  *Organizing for Affordable Housing with ACCE*  
Elizabeth Tibebu  
Mentor: Martha Matsuoka, UEP

2:00  *Esperanza Community Housing Corporation: The Power of Community*  
Luis Arias  
Mentor: Peter Dreier and Martha Matsuoka, UEP

2:15  *Internship with LINC Housing Corporation*  
Mia Recio  
Mentor: Peter Dreier and Martha Matsuoka, UEP

Session 3D: Fowler 309  
Session Chair: Eric Frank

1:30  *Dramatizing Lawrence*  
Asher Tessier  
Mentor: Sarah Kozinn, Theater

1:45  *The Fight for Legitimacy of "Meaningless" Music: Understanding Trap Through the Lens of Bebop*  
Laura Searles  
Mentor: David Kasunic, Music

2:00  *Murals, Heritage, and Cultural Exchange between Cairo and Highland Park*  
Alex Duncan  
Mentor: Eric Frank, Art History

2:15  *Albert Kahn Out West*  
Caroline Silverstein  
Mentor: Kelema Moses, Art History
Oral Presentations: Session 4 (2:40 – 3:40 PM)

Session 4A: Fowler 112  
Session Chair: Richard Mora

2:40 Economic Self-Interest Re-Examined: Using Folk Economics to Understand Inequality  
Claire Krelitz  
Mentor: John Chung-En Liu, Sociology

2:55 ACLU Gender Inclusive Bathrooms Campaign Research  
Jack Tripp  
Mentor: Brody Fox, Media Arts and Culture

3:10 Afro-Caribbean Immigrant Motherhood: An Exploratory Study  
Anna Palmer  
Mentor: Richard Mora, Sociology

3:25 Decolonizing the Archive  
Kelsey Martin  
Mentor: Richard Mora, Sociology

Session 4B: Fowler 202  
Session Chair: D. Keith Naylor

2:40 Nietzsche and Silicon Valley Stoic Revivalism  
Olivia Tenney  
Mentor: Dale Wright, Religious Studies

2:55 Santería: Transnational Resilience and Adaptability of an Afro-Cuban Religion  
Eleanor Hofmeister Alberg  
Mentor: D. Keith Naylor, Religious Studies

3:10 Nepal: Homogenized Religion Through Tourism and Travel Literature  
Emily West  
Mentor: Amy Holmes-Tagchungdarpa, Religious Studies

Franny Hutchins  
Mentor: D. Keith Naylor, Religious Studies
Session 4C: Fowler 209  
Session Chair: Marcella Raney

2:40  Evaluation of Fundación Nutrir’s malnutrition interventions in the community of Salta Capital, Argentina  
Luis Torres  
Mentor: Marcella Raney, Kinesiology

2:55  Mapping the distribution, behavior and oral microbiome of Galapagos mockingbirds  
Sammy Herdman  
Mentor: Amanda Zellmer, Biology

3:10  Using biodiversity databases to test habitat models of connectivity through a major urban wildlife corridor  
Roshni Katrak-Adefowora  
Mentor: Amanda Zellmer, Biology

Session 4D: Fowler 309  
Session Chair: Jeffrey Cannon

2:40  Dual Lewis Acid/Photoredox Catalyzed Ketyl Radical Cyclizations  
Anne Marie Crooke  
Mentor: Jeffrey Cannon, Chemistry

2:55  Synthesis of Indolizidines from L-Pyroglutamic acid using the Ireland–Claisen rearrangement and ring-closing metathesis  
Daniel Essayan  
Mentor: Jeff Cannon, Chemistry

3:10  Asymmetric Cobaltocenium Derivatives for Mediated Electrochemical Biocatalysis  
Joey Najjar  
Mentor: Andrew Udit, Chemistry

Ben Sappey  
Mentor: Michael Hill, Chemistry
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<td>1</td>
<td>A Chronology of U.S. Asset Price Bubbles, 1865-1929</td>
<td>Nelson Rayl</td>
<td>Andrew Jalil, Economics</td>
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<td>2</td>
<td>Whose Minds are We Studying?</td>
<td>Devon Mann</td>
<td>Carmel Levitan, Cognitive Science</td>
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<td>3</td>
<td>3D Digital Archive of the Moore Lab Bird Specimens</td>
<td>Joshua Medina</td>
<td>John McCormack, Biology</td>
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<td>Mechanisms of Adhesion Between Bacterial Pili Proteins and Chemically Diverse Surfaces Using Docking and Molecular Dynamics Simulations</td>
<td>Jeremy Leung</td>
<td>Eileen Spain, Chemistry</td>
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<td>6</td>
<td>How Emerging Adults Cope with Loneliness in College</td>
<td>Lena Etoka</td>
<td>Andrea Hopmeyer, Psychology</td>
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<td>8</td>
<td>Cobaltocinium Derivatives as Mediators for Biocatalysis with P450 Enzymes</td>
<td>Danica Gressel</td>
<td>Andrew Udit, Chemistry</td>
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<td>Cobaltocinium Derivatives as Mediators for Biocatalysis with P450 Enzymes</td>
<td>Ayanna Lynch</td>
<td>Andrew Udit, Chemistry</td>
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<td>Characteristics of cyt-c552 and CuA proteins on self-assembled thiol monolayers using gold bead electrodes</td>
<td>Charlotte Cullip</td>
<td>Michael Hill, Chemistry</td>
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<td>11</td>
<td>The Greatest Documentary</td>
<td>Kendrick Shoji</td>
<td>Ari Laskin, Media Arts and Culture</td>
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<td>Synthesis of Allylic Alcohols/Condensation with L-pyroglutamic Acid</td>
<td>David Collins</td>
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Poster Session 2

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

3:45 – 4:45 PM

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**Poster Number**

13. *Potential Obstacles for Agriculture on Mars: Effects of Perchlorate on Seed Germination and Plant Health*
   Joshua Beisel (Mentor: Gretchen North, Biology)

14. *Biogeochemistry of CO2 and CH4 Related to Vegetation Health in Soils*
    Eleanor Amann (Mentor: Christopher Oze, Geology)

15. *Tension X*
    August Barringer (Mentor: Mary Beth Heffernan, Art and Art History)

16. *Genetic Analysis of Suppressors of Microtubule Defects in C. elegans Motor Neurons*
    Michael Ozaki (Mentor: Renee Baran, Biology)

17. *Diastereoselective Synthesis of Unnatural Amino Acid Derivatives via Auxiliary-Directed Enolate Alkylation*
    Marc Kawada (Mentor: Jeffrey Cannon, Chemistry)

18. *Housekeys Not Handcuffs, Not Shelters: LA CAN’s Fight for Housing as a Human Right and the Decriminalization of Unhoused People*
    Melissa Mateo (Mentors: Peter Dreier and Martha Matsuoka, UEP)

19. *Multisensory Processing and Sequence Learning*
    Kirsten Laursen (Mentor: Carmel Levitan, Cognitive Science)

20. *Efforts to Develop a Thiourea-Catalyzed Addition to ortho-Quinone Methides*
    Cheyenne Orozco (Mentor: Raul Navarro, Chemistry)

22. *Non Profits and Los Angeles’ Housing Crisis: Evaluating Coalition for Economic Survival*
    Tori Funk (Mentors: Peter Dreier and Martha Matsuoka, UEP)

23. *Native bee diversity on Eriogonum fasciculatum in Los Angeles County*
    Cora Davies (Mentor: Elizabeth Braker, Biology)

24. *Beyond Teeth: Examining Access to Medicaid Dental Benefits in Los Angeles County*
    Elena Daniel, Ryan Lee and Ben Smith (Mentors: Heng Lam Foong and Bhavna Shamasunder, UEP)
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<td>Mario Lemus</td>
<td>Raul Navarro, Chemistry</td>
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<td>Heat Tolerance Related to Leaf Size and Shape of Varying Tropical and Temperate Trees</td>
<td>Meike Buhaly</td>
<td>Gretchen North, Biology</td>
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<td>27</td>
<td>Delta Sets of Non-Minimal Numerical Monoid</td>
<td>Vena Zhang</td>
<td>Jay Daigle, Mathematics</td>
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<td>Morphological Variation in the Spot-crowned Woodcreeper</td>
<td>Leeza Lu</td>
<td>John McCormack, Biology</td>
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<td>29</td>
<td>Synthesizing furanolactone motifs via photocatalyzed redox</td>
<td>Warren Zhang</td>
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<td>A Host Range Survey of the Ambrosia Beetle (Coleoptera: Scolytinae) - Phytopathogenic Fungus Complex in Los Angeles, California</td>
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## Poster Session 2

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

**3:45 – 4:45 PM**

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Student Presenters

Olivia Addington ’21

Solar Robot: Optimizing the Cleaning of the Occidental Solar Array
Fowler 202, 9:50 AM

Mentor: Gabriel Freiman
Major: Undeclared
Funding: Norris Research Endowment

Eleanor Hofmeister Alberg ’19

Santería: Transnational Resilience and Adaptability of an Afro-Cuban Religion
Fowler 202, 2:55 PM

Mentor: D. Keith Naylor
Majors: Religious Studies, Spanish
Funding: Ford Research Mentor’s Endowment

Connor Flynn Allison ’20

The Use of Intonation in Differentiating English Statements and Questions Across Different Language Families
Fowler 112, 1:45 PM

Mentor: Susan Geffen
Major: Psychology
Funding: Summer Undergraduate Research Fellowship

Eleanor Amann ’19

Biogeochemistry of CO2 and CH4 Related to Vegetation Health in Soils
Academic Commons, Session 2, Poster 14

Mentor: Christopher Oze
Major: Geology (Environmental Science concentration)
Funding: Summer Undergraduate Research Fellowship

Luis Arias ’21

Esperanza Community Housing Corporation: The Power of Community
Fowler 209, 2:00 PM

Mentors: Peter Dreier and Martha Matsuoka
Major: Undeclared
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Hannah Ash ’19

Sweetness as a Measure and Modulator of Emotionality in Rats
Fowler 112, 2:00 PM

Mentors: Dale Chapman and Nancy Dess
Major: Psychology
Funding: Summer Undergraduate Research Fellowship

Brianna Baker ’19

Impact of microenvironment water conditions on Coast Live Oak resistance to beetle vectors and affiliated fungal pathogen
Academic Commons, Session 1, Poster 22

Mentor: Elizabeth Braker
Major: Biology (Environmental Science concentration)
Funding: Sarah H. Roberts ’68 and David H. Roberts ’67 Annual Research Fellowship in Environmental Sciences

August Barringer ’19

Tension X
Academic Commons, Session 2, Poster 15

Mentor: Mary Beth Heffernan
Major: Art and Art History
Funding: Mellon Foundation: Arts, Humanities and Social Science

Joshua Beisel ’20

Potential Obstacles for Agriculture on Mars: Effects of Perchlorate on Seed Germination and Plant Health
Academic Commons, Session 2, Poster 13

Mentor: Gretchen North
Major: Biology
Funding: National Science Foundation, COSMOS Grant
Elleni Bekele ’20
Producing Cytochrome P450 Mutants for Biocatalysis
Academic Commons, Session 1, Poster 23

Mentor: Andrew Uditi
Major: Chemistry
Funding: Fletcher-Jones Chemistry and Biochemistry Research Endowment

Rhea Bhatia ’19
Deprivation Induced Hyperactivity: Exploring Energy Balance in Rats
Academic Commons, Session 1, Poster 35

Mentors: Dale Chapman and Nancy Dess
Major: Psychology
Funding: Summer Undergraduate Research Fellowship

Aria Blumm ’19
Generating the Frequency of Past Earthquakes from Lake Sediment Cores in Grand Teton National Park, WY
Academic Commons, Session 1, Poster 13

Mentor: Darren Larsen
Majors: Environmental Science, Geology
Funding: Sarah H. Roberts ’68 and David H. Roberts ’67 Annual Research Fellowship in Environmental Sciences

Camille Brzechffa ’20
Exploring the internal jungle of Costa Rican Chrysomelid beetles: Potential bacterial symbionts discovered
Academic Commons, Session 1, Poster 25

Mentor: Shana Goffredi
Major: Biology
Funding: Norris Research Endowment

Meike Buhaly ’19
Heat Tolerance Related to Leaf Size and Shape of Varying Tropical and Temperate Trees
Academic Commons, Session 2, Poster 26

Mentor: Gretchen North
Major: Biology
Funding: Summer Undergraduate Research Fellowship

K. Cancel ’19
The Bone of Contention
Fowler 202, 2:15 PM

Mentor: Zinzi Clemmons
Majors: English & Comparative Literary Studies, Theater
Funding: Argonaut Summer Research Award in Creative Writing

Ruby Yuyu Chen ’19
Quantitative Atomic Force Microscopy Investigation of Adhesion of a Planktonic Bacterial Predator to Biofilm Prey
Academic Commons, Session 1, Poster 26

Mentor: Eileen Spain
Major: Chemistry
Funding: Department of Health and Human Services, National Institutes of Health

William Chen ’19
Saving an Endangered Language Through Technology
Academic Commons, Session 1, Poster 10

Mentor: Amy Holmes-Tagchungdarpa
Major: Computer Science
Funding: Kneeland Ministry Prize

Monica Chernoff ’20
Peer Popularity Among Emerging Adults in College
Academic Commons, Session 1, Poster 4

Mentor: Andrea Hopmeyer
Major: Psychology
Funding: Gift of Dr. Andrew F. Newcomb ’75
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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Academic Commons, Session, Poster</th>
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<tr>
<td>David Collins '20</td>
<td>Synthesis of Allylic Alcohols/Condensation with L-pyroglutamic Acid</td>
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<td></td>
<td>Mentor: Jeffrey Cannon</td>
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<td>Funding: Summer Undergraduate Research Fellowship</td>
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<td>Miles Collins '19</td>
<td>Exploring an Extended Hybrid Zone between Blue-capped Motmot's and Lesson's Motmot</td>
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<td>Mentor: John McCormack</td>
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<td></td>
<td>Major: Biochemistry</td>
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<td>Funding: NSF Grant to Dr. McCormack, Integrating Undergraduate Research, Citizen Scientists</td>
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<td>Kyle Costello '19</td>
<td>Increasing Motor Coordination Through Induced Alpha Wave Neural Synchrony</td>
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<td>Mentor: Aleksandra Sherman</td>
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<td>Anne Marie Crooke '19</td>
<td>Dual Lewis Acid/Photoredox Catalyzed Ketyl Radical Cyclizations</td>
<td>Fowler 309, 2:40 PM</td>
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<td>Mentor: Jeffrey Cannon</td>
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<td>Charlotte Cullip '19</td>
<td>Characteristics of cyt-c552 and CuA proteins on self-assembled thiol monolayers using gold bead electrodes</td>
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<td>Mentor: Michael Hill</td>
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<td>Elena Daniel '20</td>
<td>Beyond Teeth: Examining Access to Medicaid Dental Benefits in Los Angeles County</td>
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<td>Mentor: Heng Lam Foong and Bhavna Shamasunder</td>
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<td>Cora Davies '19</td>
<td>Native bee diversity on Eriogonum fasciculatum in Los Angeles County</td>
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<td>Alex Duncan '20</td>
<td>Murals, Heritage, and Cultural Exchange between Cairo and Highland Park</td>
<td>Fowler 309, 2:00 PM</td>
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<td>Mentor: Eric Frank</td>
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<td>Funding: Mellon Foundation: Arts and Urban Experience</td>
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Peter Elia ‘21
Reducing Signal Noise in DRIFT-IIg Dark Matter Detector
Fowler 202, 10:05 AM
Mentors: Daniel Snowden-Ifft and Jean-Luc Gauvreau
Major: Physics
Funding: Summer Undergraduate Research Fellowship

Gabriela Elliott ‘19
A Case Study of Community-Led Development at East LA Community Corporation
Academic Commons, Session 1, Poster 5

Dafna Erana ‘21
Comparing historical and current intertidal algae and invertebrate communities in MPA and non-MPA sites in the Palos Verdes Peninsula
Academic Commons, Session 1, Poster 14

Daniel Essayan ‘19
Synthesis of Indolizidines from L-Pyroglutamic acid using the Ireland-Claisen rearrangement and ring-closing metathesis
Fowler 309, 2:55 PM
Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Amgen Summer Fellowship

Lena Etoka ‘20
How Emerging Adults Cope with Loneliness in College
Academic Commons, Session 2, Poster 6
Mentor: Andrea Hopmeyer
Majors: Psychology, Sociology
Funding: Summer Undergraduate Research Fellowship

Nell Farrow ‘19
Fostering Community Through Creativity-Based Women's Organizations
Fowler 202, 2:00 PM
Mentor: Julie Prebel
Major: Art History
Funding: Mellon Foundation: Arts and Urban Experience

Naomi Field ‘20
Not Your Average Biology Textbook: Learning Science through Art
Academic Commons, Session 1, Poster 21
Mentor: Shana Goffredi
Majors: Studio Art, Biology
Funding: Ford Research Mentor's Endowment

Luis Figueroa ‘19
Improving Automatic Bug Summarization For Maintainable Software Through Part-Of-Speech Tagging of Domain-Specific Words
Fowler 112, 10:05 AM
Mentor: Celia Chen
Majors: Mathematics, Computer Science
Funding: Ford Research Mentor's Endowment

Katherine Forbes ‘18
Methodologies for Photoredox-Catalyzed Cyclizations
Academic Commons, Session 1, Poster 8
Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Mark Paulsen '10 Summer Fellowship in the Chemical Sciences
Zoë Foster-La Du ‘19

Chaotic Desires: Embodying Creative Anarchy in the Early Russian Avant-Garde
Academic Commons, Session 1, Poster 7

Mentor: Christopher Gilman
Major: Critical Theory and Social Justice
Funding: Mellon Foundation: Arts, Humanities and Social Science

Tori Funk ‘20

Non Profits and Los Angeles’ Housing Crisis: Evaluating Coalition for Economic Survival
Academic Commons, Session 2, Poster 22

Mentors: Peter Dreier and Martha Matsuoka
Majors: Economics, Politics
Funding: UEP, Affordable Housing Internship

Isabel Geddes ‘20

When do science and intuition begin to conflict?
Fowler 112, 9:20 AM

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

Hailey Gil ‘20

Engaging residents of affordable and supportive housing in tenant's rights advocacy and related public policy
Fowler 209, 1:30 PM

Mentor: Peter Dreier
Major: Urban and Environmental Policy
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Ciaran Gilligan ‘19

Techne and Being
Fowler 202, 1:30 PM

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

Danica Gressel ‘18

Cobaltocinium Derivatives as Mediators for Biocatalysis with P450 Enzymes
Academic Commons, Session 2, Poster 8

Mentor: Andrew Udit
Major: Chemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Jacob Gutierrez ‘19

Solar Demonstrator for Environmental Testing
Fowler 202, 10:35 AM

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

Lynn He ‘18

Electromechanical Reshaping of Cartilage and the Molecular and Chemical Effects of Water Electrolysis on Tissue and Cell Viability
Academic Commons, Session 1, Poster 17

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

Andrew Henson ‘20

The Aesthetic Argument for Clean Comedy
Fowler 202, 1:45 PM

Mentor: Clair Morrissey
Major: Philosophy
Funding: Ford Research Mentor’s Endowment
Sammy Herdman '19
Mapping the distribution, behavior and oral microbiome of Galapagos mockingbirds
Fowler 209, 2:55 PM

Mentor: Amanda Zellmer
Major: Biology (Environmental Science concentration)
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Hannah Hoefs '20
Morphometric Relationships for Macroinvertebrates of Southern California's Rocky Reefs
Academic Commons, Session 1, Poster 6

Mentor: Daniel Pondella
Major: Biology (Marine emphasis)
Funding: Virginia Reid Moore ’37 Summer Research Fellowship

Sierra Hunter '21
Modeling electron flow in the terminal complex of aerobic respiration: interfacial electron transfer between cytochrome c and the copper-A domain of cytochrome c oxidase
Academic Commons, Session 1, Poster 19

Mentors: Michael Hill and Andrew Udit
Major: Chemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Franny Hutchins '19
The Resurgence of Catholic Exorcisms in the United States: The New Age and the Theological Rejection of Modernity
Fowler 202, 3:25 PM

Mentor: D. Keith Naylor
Major: Religious Studies
Funding: Ford Research Mentor's Endowment

Noel Jameson '19
Efforts Toward the Total Synthesis of Swerilactone A
Academic Commons, Session 1, Poster 32

Mentor: Raul Navarro
Major: Chemistry
Funding: American Chemical Society Undergraduate Research Fellowship

Ian Jan '20
Fast and Venomous: A Kinematic Study of the Cone Snail's Prey-Hunting Mechanism
Fowler 209, 9:30 AM

Mentor: Joseph Schulz
Major: Undeclared
Funding: Summer Undergraduate Research Fellowship

Mitchell Johnson '19
Magnetic Isolation of Pure Phagosomes
Academic Commons, Session 1, Poster 20

Mentor: Cheryl Okumura
Major: Biochemistry
Funding: Chemistry and Biochemistry Summer Research Fellowship

Roshni Katrak-Adefowora '19
Using biodiversity databases to test habitat models of connectivity through a major urban wildlife corridor
Fowler 209, 3:10 PM

Mentor: Amanda Zellmer
Major: Biology (Environmental Science concentration)
Funding: Sarah H. Roberts ’68 and David H. Roberts ’67 Annual Research Fellowship in Environmental Sciences

Marc Kawada '20
Diastereoselective Synthesis of Unnatural Amino Acid Derivatives via Auxiliary-Directed Enolate Alkylation
Academic Commons, Session 2, Poster 17

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Summer Undergraduate Research Fellowship
Oliver Killeen '19

Are Artists Better Observers?
Academic Commons, Session 1, Poster 16

Mentor: Carmel Levitan
Major: Cognitive Science
Funding: Summer Undergraduate Research Fellowship

Greg Kleinman '20

Holocaust Survivors in Post-war America: An Exploration into the Myth of Silence
Fowler 209, 9:50 AM

Mentor: Marla Stone
Majors: History, Economics
Funding: Ray A. Billington Endowment

Claire Krelitz '19

Economic Self-Interest Re-Examined: Using Folk Economics to Understand Inequality
Fowler 112, 2:40 PM

Mentor: John Chung-En Liu
Majors: Sociology, Politics
Funding: Ford Research Mentor’s Endowment

Michael Kwan '20

The Lyapunov Spectrum for Turbulent Rayleigh-Bénard Convection
Fowler 202, 9:00 AM

Mentor: Janet Scheel
Majors: Physics, Music
Funding: National Science Foundation, COSMOS Grant

Kirsten Laursen '19

Multisensory Processing and Sequence Learning
Academic Commons, Session 2, Poster 19

Mentor: Carmel Levitan
Major: Cognitive Science
Funding: Summer Undergraduate Research Fellowship

Claudia Lechner '19

Conflicting beliefs about social categories
Fowler 112, 9:00 AM

Mentor: Andrew Shtulman
Major: Psychology
Funding: James S. McDonnell Foundation

Jimin Lee '20

Group A Streptococcus Decreases Vacuolar ATPase Assembly
Academic Commons, Session 1, Poster 36

Mentor: Cheryl Okumura
Major: Biology
Funding: American Heart Association

Ryan Lee '19

Beyond Teeth: Examining Access to Medicaid Dental Benefits in Los Angeles County
Academic Commons, Session 2, Poster 24

Mentors: Heng Lam Foong and Bhavna Shamasunder
Major: Biology
Funding: UEP, Public Health Internship
Mario Lemus ‘19
Efforts to Develop a Thiourea-catalyzed Addition to ortho-Quinone Methides
Academic Commons, Session 2, Poster 25
Mentor: Raul Navarro
Major: Biochemistry
Funding: Priscilla and Don Smith Summer Research Endowment

Jeremy Leung ‘19
Mechanisms of Adhesion Between Bacterial Pili Proteins and Chemically Diverse Surfaces Using Docking and Molecular Dynamics Simulations
Academic Commons, Session 2, Poster 4
Mentor: Eileen Spain
Major: Chemistry
Funding: Chemistry and Biochemistry Summer Research Fellowship

Alexander Levers ‘19
The Effect of Auditory Memory on Musical Preference
Academic Commons, Session 1, Poster 18
Mentor: Aleksandra Sherman
Major: Cognitive Science
Funding: Summer Undergraduate Research Fellowship

Bryce Lewis-Smith ‘20
The Flight of the Bumblebee: Shifting Species Distributions in Southern California
Academic Commons, Session 2, Poster 38
Mentor: Elizabeth Braker
Major: Biology
Funding: Summer Undergraduate Research Fellowship

Lijia Li ‘20
Comparing Word Embeddings and Information Retrieval Approaches to Affordance Extraction
Fowler 112, 10:20 AM
Mentor: Justin Li
Major: Computer Science
Funding: Ford Research Mentor’s Endowment

Crystal Liang ‘19
Probing Cytochrome P450 Biocatalysis via Anaerobic Redox Titrations
Academic Commons, Session 1, Poster 37
Mentor: Andrew Udit
Major: Biochemistry
Funding: National Science Foundation, COSMOS Grant

Emily Yue Liang ‘21
Reconstructing the Landing of Philae on Comet 67P
Fowler 202, 9:30 AM
Mentor: Charles Oravec
Major: Undeclared
Funding: Ford Research Mentor’s Endowment

Hailey Lister ‘20
Stereoselective Synthesis of Unnatural Amino Acids via an Auxiliary-Directed Enolate Alkylation
Academic Commons, Session 1, Poster 12
Mentor: Jeffrey Cannon
Major: Undeclared
Funding: Summer Undergraduate Research Fellowship

Kitty Lu ‘21
Selective electrocatalytic hydrocarbon oxidation via high-valent iron centers in supported nanoparticles
Academic Commons, Session 1, Poster 34
Mentor: Michael Hill
Major: Undeclared
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment
Leeza Lu ’21

Morphological Variation in the Spot-crowned Woodcreeper
Academic Commons, Session 2, Poster 28

Mentor: John McCormack
Majors: Biology, Comparative Studies in Literature and Culture
Funding: NSF Grant to Dr. McCormack, Integrating Undergraduate Research, Citizen Scientists

Ayanna Lynch ’20

Cobaltocinium Derivatives as Mediators for Biocatalysis with P450 Enzymes
Academic Commons, Session 2, Poster 9

Mentor: Andrew Udit
Major: Chemistry
Funding: Fletcher-Jones Chemistry and Biochemistry Research Endowment

Eric Malmquist ’19

Sexual Identity Management Strategies
Fowler 112, 1:30 PM

Mentor: Brian Kim
Major: Psychology
Funding: Ford Research Mentor's Endowment

Devon Mann ’19

Whose Minds are We Studying?
Academic Commons, Session 2, Poster 2

Mentor: Carmel Levitan
Major: Cognitive Science
Funding: Mellon Foundation: Digital Liberal Arts Grant

Kelsey Martin ’19

Decolonizing the Archive
Fowler 112, 3:25 PM

Mentor: Richard Mora
Major: Sociology
Funding: Mellon Foundation: Arts, Humanities and Social Science

Melissa Mateo ’21

House keys Not Handcuffs, Not Shelters: LA CAN's Fight for Housing as a Human Right and the Decriminalization of Unhoused People
Academic Commons, Session 2, Poster 18

Mentors: Peter Dreier and Martha Matsuoka
Major: Urban and Environmental Policy
Funding: UEP, Affordable Housing Internship

Craig McCall ’19

Retail Store Price Uniformity
Fowler 112, 10:35 AM

Mentor: Brandon Lehr
Majors: Economics, Mathematics
Funding: Undergraduate Research Fund for Corporate Responsibility

Max Meade ’19

Advancing the Zebrafish Model System
Fowler 209, 9:15 AM

Mentor: Joseph Schulz
Major: Biology
Funding: Summer Undergraduate Research Fellowship

Joshua Medina ’19

3D Digital Archive of the Moore Lab Bird Specimens
Academic Commons, Session 2, Poster 3

Mentor: John McCormack
Major: Comparative Studies in Literature and Culture
Funding: Ford Research Mentor's Endowment
Pai Miller ‘19
Hechicería and Hierarchy: Colonial Mexican Women and Subversion of Power Through Deviance and “Witchcraft”
Academic Commons, Session 2, Poster 5

Mentors: D. Keith Naylor and Kristi Upson-Saia
Major: Religious Studies
Funding: Arnston Memorial Essay Award

Divya Moolamalla ‘20
Human Mammary Epithelial Cell Organoids as Models for Aging Related Functional Markers for Breast Cancer
Academic Commons, Session 1, Poster 9

Mentors: Mark LaBarge and Michael Todhunter, City of Hope
Major: English (Pre Med)
Funding: Gifts to the Undergraduate Research Center

David Mosack ‘19
Geographic Variation Among Russet Nightingale-Thrushes
Academic Commons, Session 1, Poster 38

Mentor: John McCormack
Majors: Biology, English
Funding: NSF Grant to Dr. McCormack, Integrating Undergraduate Research, Citizen Scientists

Joey Najjar ‘19
Asymmetric Cobaltocenium Derivatives for Mediated Electrochemical Biocatalysis
Fowler 309, 3:10 PM

Mentor: Andrew Udit
Major: Chemistry
Funding: The Kenneth T. and Eileen L. Norris Foundation Science Scholar

Scott Niman ‘18
Total Synthesis of DAB-1
Academic Commons, Session 2, Poster 36

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

Scott Nishioka ‘19
Group A Streptococcus ruptures the lysosomal membrane in THP-1 macrophages using pore-forming toxins
Fowler 209, 9:00 AM

Mentor: Cheryl Okumura
Major: Biochemistry
Funding: The Fletcher Jones Foundation Science Scholar

Cheyenne Orozco ‘20
Efforts to Develop a Thiourea-Catalyzed Addition to ortho-Quinone Methides
Academic Commons, Session 2, Poster 20

Mentor: Raul Navarro
Major: Chemistry
Funding: Professor George H. Cleland Endowed Undergraduate Summer Research Fellowship in Organic Chemistry

Michael Ozaki ’19
Genetic Analysis of Suppressors of Microtubule Defects in C. elegans Motor Neurons
Academic Commons, Session 2, Poster 16

Mentor: Renee Baran
Major: Biology
Funding: Gifts to the Undergraduate Research Center

Ben Pagano ‘21
Intrinsic Linking and Knotting in Directed Graphs
Fowler 202, 9:15 AM

Mentor: Ramin Naimi
Major: Undeclared
Funding: Summer Undergraduate Research Fellowship
Anna Palmer ‘19
Afro-Caribbean Immigrant Motherhood: An Exploratory Study
Fowler 112, 3:10 PM
Mentor: Richard Mora
Major: Sociology
Funding: Ford Research Mentor's Endowment

Robin Pounders ‘19
Conflicting beliefs about social categories
Fowler 112, 9:00 AM
Mentor: Andrew Shtulman
Major: Psychology
Funding: James S. McDonnell Foundation

Andrew Park ‘20
Using Virus Nanoparticles to develop an Alternative Antagonist to Heparin
Academic Commons, Session 1, Poster 39
Mentor: Andrew Udit
Major: Biochemistry
Funding: Chemistry and Biochemistry Summer Research Fellowship

Nelson Rayl ‘20
A Chronology of U.S. Asset Price Bubbles, 1865-1929
Academic Commons, Session 2, Poster 1
Mentor: Andrew Jalil
Major: Economics
Funding: Ford Research Mentor's Endowment

Spencer Patrick ‘19
Along strike variation in exhumation history in Far Western Nepal’s Main Central Thrust
Academic Commons, Session 2, Poster 33
Mentor: Ann Blythe
Major: Geology
Funding: Gifts to the Undergraduate Research Center

Mia Recio ‘21
Internship with LINC Housing Corporation
Fowler 209, 2:15 PM
Mentors: Peter Dreier and Martha Matsuoka
Major: Undeclared
Funding: UEP, Affordable Housing Internship

Robertia Fujino Reid ‘19
(anti)Blackness in Japan
Fowler 209, 10:35 AM
Mentor: James Ford
Major: Critical Theory & Social Justice
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Vanessa Rodriguez ‘19
Differences in microbiome diversity and abundance between sister species of Jadera; seed-eating insects from Costa Rica and California
Academic Commons, Session 1, Poster 33
Mentor: Shana Goffredi
Major: Biochemistry
Funding: Gift of Barbara Proffitt and Dr. Richard T. Proffitt ’66

Salma Rojas ‘21
SCOPE LA: Building Grassroots Power in South Los Angeles
Academic Commons, Session 1, Poster 30
Mentors: Peter Dreier and Martha Matsuoka
Major: Undeclared
Funding: The Paul K. and Evalyn E. Cook Richter Trust
Ben Sappey ’19
Oxidation of Hydrocarbons with a Laser-Ablated Catalyst Using a Custom Flow-through Cell
Fowler 309, 3:25 PM

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

Laura Searles ’19
The Fight for Legitimacy of "Meaningless" Music: Understanding Trap Through the Lens of Bebop
Fowler 309, 1:45 PM

Mentor: David Kasunic
Major: Media Arts and Culture
Funding: Mellon Foundation: Arts and Urban Experience

Kendrick Shoji ’20
The Greatest Documentary
Academic Commons, Session 2, Poster 11

Mentor: Ari Laskin
Major: Media Arts and Culture
Funding: Mellon Foundation: Arts and Urban Experience

Caroline Silverstein ’19
Albert Kahn Out West
Fowler 309, 2:15 PM

Mentor: Kelema Moses
Major: History
Funding: Robert W. Winter History of Art & Architecture Summer Research Fellowship

Chandler Smith ’19
Characterization of Photoinduced Charge Transfer Intermediates in an Electrochemical Solar Cell
Academic Commons, Session 1, Poster 31

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

Kallyn Song-Nichols ’19
Children's Thinking About Gendered Robots
Fowler 112, 9:50 AM

Mentors: Andrew Shtulman and Andrew Young
Major: Cognitive Science
Funding: Ford Research Mentor's Endowment

Kathy Sorto ’20
LA Voice
Academic Commons, Session 2, Poster 39

Mentor: Peter Dreier
Major: Sociology
Funding: UEP, Affordable Housing Internship

Anna Stokolosa ’18
Electrochemical Hydrolysis of Adipose Tissue
Academic Commons, Session 2, Poster 32

Mentor: Michael Hill
Major: Chemistry
Funding: Fletcher-Jones Chemistry and Biochemistry Research Endowment
Olivia Tenney '19
Nietzsche and Silicon Valley Stoic Revivalism
Fowler 202, 2:40 PM

Mentor: Dale Wright
Majors: Religious Studies, Critical Theory & Social Justice
Funding: Amston Memorial Essay Award

Asher Tessier '20
Dramatizing Lawrence
Fowler 309, 1:30 PM

Mentor: Sarah Kozinn
Major: Media Arts and Culture
Funding: Ford Research Mentor's Endowment

Elizabeth Tibebu '20
Organizing for Affordable Housing with ACCE
Fowler 209, 1:45 PM

Mentor: Martha Matsuoka
Major: American Studies
Funding: UEP, Affordable Housing Internship

Paul Tomlinson '19
Synthesis of Furanolactone Motifs by Photoredox and Lewis Acid Catalyzed Ketyl Radical Cyclization
Academic Commons, Session 1, Poster 2

Mentor: Jeffrey Cannon
Majors: Chemistry, Economics
Funding: Ford Research Mentor's Endowment

Luis Torres '18
Evaluation of Fundación Nutrir’s malnutrition interventions in the community of Salta Capital, Argentina
Fowler 209, 2:40 PM

Mentor: Marcella Raney
Majors: Biology, Spanish
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Emily Tran '19
Identifying and Extracting Product-Specific and Domain-Specific Words From Mozilla Bug Summaries
Academic Commons, Session 1, Poster 29

Mentor: Celia Chen
Major: Computer Science
Funding: Mary S. Caswell Fund for Summer Research

Jack Tripp '21
ACLU Gender Inclusive Bathrooms Campaign Research
Fowler 112, 2:55 PM

Mentor: Broderick Fox
Major: Undeclared
Funding: Mellon Foundation: Arts, Humanities and Social Science

Ali Vogelaar '19
Novel Anticoagulants Using Sulfated Dendrons on Virus-like Particles
Academic Commons, Session 2, Poster 34

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

Waruguru Waithira '19
MAU MAU women - Stories of survival from the remnants of the MAU MAU Revolution (1952-1964)
Fowler 209, 10:50 AM

Mentor: Movindri Reddy
Majors: Biology, Art and Art History
Funding: The Paul K. and Evalyn E. Cook Richter Trust
Claire Weider '19
When do science and intuition begin to conflict?
Fowler 112, 9:20 AM

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

Emily West '19
Nepal: Homogenized Religion Through Tourism and Travel Literature
Fowler 202, 3:10 PM

Mentor: Amy Holmes-Tagchungdarpa
Majors: Religious Studies, Art History
Funding: Ford Research Mentor's Endowment

Chloe Wheeler '19
Tragic Arithmetic: Nature of the Woven in Ancient Greek Tragedy as Mathematical
Fowler 209, 10:05 AM

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

Olivia Wilk '19
Cultural Production and State Power: An Analysis of the PRC's Intervention in the Chinese Music Industry
Fowler 209, 10:20 AM

Mentor: Alexander Day
Majors: Diplomacy and World Affairs, East Asian Studies
Funding: Mary S. Caswell Fund for Summer Research

Emma Yudelevitch '19
Policy Advocacy: The LAANE Model
Academic Commons, Session 2, Poster 37

Mentors: Peter Dreier and Martha Matsuoka
Major: Urban and Environmental Policy
Funding: UEP, Affordable Housing Internship

Diego Zapata '19
A Host Range Survey of the Ambrosia Beetle (Coleoptera: Scolytinae) - Phytopathogenic Fungus Complex in Los Angeles, California
Academic Commons, Session 2, Poster 31

Mentor: Gretchen North
Major: Biology (Environmental Science concentration)
Funding: The Paul K. and Evalyn E. Cook Richter Trust

Iris Zhang '20
Targeted knockout of katanin genes in C. elegans by CRISPR and RNAi
Academic Commons, Session 2, Poster 35

Mentor: Renee Baran
Major: Biology
Funding: Summer Undergraduate Research Fellowship

Vena Zhang '19
Delta Sets of Non-Minimal Numerical Monoid
Academic Commons, Session 2, Poster 27

Mentor: Jay Daigle
Majors: Mathematics, Computer Science
Funding: Ford Research Mentor's Endowment

Warren Zhang '20
Synthesizing furanolactone motifs via photocatalyzed redox
Academic Commons, Session 2, Poster 29

Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: Summer Undergraduate Research Fellowship
Yiming Zhang '19

Geomagnetic Field Intensity Changes During an R-N Polarity Reversal Recorded by Mafic Lava Flows, Anahola, Kauai
Academic Commons, Session 1, Poster 1

Mentor: Scott Bogue
Major: Geology
Funding: Summer Undergraduate Research Fellowship

Hedda Zhao '20

Background Simulations on the Detection of Dark Matter
Fowler 202, 10:20 AM

Mentor: Daniel Snowden-Ifft
Major: Undeclared
Funding: Ford Research Mentor's 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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Maryanne Horowitz

Darren Larsen  
Daniel Pondella  
Eric Sundberg

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Eileen Spain  
Marla Stone

Andrew Udit  
Kristi Upson-Saia  
Dale Wright  
Andrew Young (1)  
Amanda Zellmer

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Area Coordinator:  
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Luncheon Presenter:  
Erica Preston-Roedder  
Wendy Sternberg

Workshop Leaders:  
Jessica Blickley  
Stephany Bustos  
Jamila Chambers  
Jennifer Locke  
Jacob Sargent  
Andrew Shtulman

Session Moderator:  
Robin Craggs

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Karla J. Hernández       Janet Morris       Makayla Keasler ‘20

Not pictured: Prof. Ron Buckmire, Associate Dean of Curricular Affairs, and Prof. Eileen M. Spain, Associate Dean of the College, Research

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