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.)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>All day, repeating</td>
<td>Screening of vintage scenes from Oxy, film provided by Special Collections. Main Floor, Academic Commons, circulation area.</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Poster set-up (for morning session)</td>
</tr>
<tr>
<td></td>
<td>Library/Academic Commons, 3rd floor, &quot;new&quot; building side</td>
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<tr>
<td>8:30 AM</td>
<td>Registration and name badge pick-up</td>
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<tr>
<td></td>
<td>Quad, tented table near Library/Academic Commons</td>
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<tr>
<td>9:00 AM</td>
<td>Oral Presentations, Session One</td>
</tr>
<tr>
<td></td>
<td>Fowler Hall, Rooms 112, 202, 209</td>
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<tr>
<td>9:50 AM</td>
<td>Oral Presentations, Session Two</td>
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<tr>
<td></td>
<td>Fowler Hall, Rooms 112, 202, 209</td>
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<tr>
<td>11:00 AM</td>
<td>Poster Presentations, Session One</td>
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<tr>
<td></td>
<td>Library/Academic Commons, 3rd floor, &quot;new&quot; building side</td>
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<tr>
<td></td>
<td>Intermission: Poster Presentations: Session One posters removed and Session Two posters set-up.</td>
</tr>
<tr>
<td>12:00 – 12:30 PM</td>
<td>Lunch, including brief remarks by Dean Wendy Sternberg</td>
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<tr>
<td></td>
<td>Gresham Dining Room (please enter through Branca Patio)</td>
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<tr>
<td>12:30 PM</td>
<td>Oral Presentations, Session Three</td>
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<tr>
<td></td>
<td>Fowler Hall, Rooms 112, 202, 209, 309</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>Oral Presentations, Session Four</td>
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<tr>
<td></td>
<td>Fowler Hall, Rooms 112, 202, 209, 309</td>
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<tr>
<td>2:40 PM</td>
<td>Poster Presentations, Session Two</td>
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<tr>
<td></td>
<td>Library/Academic Commons, 3rd floor, &quot;new&quot; building side</td>
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<tr>
<td>3:45 PM</td>
<td>Conference Ends</td>
</tr>
<tr>
<td>4:45 PM</td>
<td></td>
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</tbody>
</table>
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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</thead>
<tbody>
<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>Scott Bogue, Geology</td>
</tr>
<tr>
<td>2</td>
<td>Synthesis of Furanolactone Motifs by Photoredox and Lewis Acid Catalyzed Ketyl Radical Cyclization</td>
<td>Paul Tomlinson</td>
<td>Jeffrey Cannon, Chemistry</td>
</tr>
<tr>
<td>4</td>
<td>Peer Popularity Among Emerging Adults in College</td>
<td>Monica Chernoff</td>
<td>Andrea Hopmeyer, Psychology</td>
</tr>
<tr>
<td>5</td>
<td>A Case Study of Community-Led Development at East LA Community Corporation</td>
<td>Gabriela Elliott</td>
<td>Martha Matsuoka, UEP</td>
</tr>
<tr>
<td>6</td>
<td>Morphometric Relationships for Macroinvertebrates of Southern California's Rocky Reefs</td>
<td>Hannah Hoefs</td>
<td>Daniel Pondella, Biology</td>
</tr>
<tr>
<td>7</td>
<td>Chaotic Desires: Embodying Creative Anarchy in the Early Russian Avant-Garde</td>
<td>Zoë Foster-La Du</td>
<td>Christopher Gilman, CDLA</td>
</tr>
<tr>
<td>8</td>
<td>Methodologies for Photoredox-Catalyzed Cyclizations</td>
<td>Katherine Forbes</td>
<td>Jeffrey Cannon, Chemistry</td>
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<tr>
<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>Mark LaBarge and Michael Todhunter, City of Hope</td>
</tr>
<tr>
<td>10</td>
<td>Saving an Endangered Language Through Technology</td>
<td>William Chen</td>
<td>Amy Holmes-Tagchungdarpa, Religious Studies</td>
</tr>
<tr>
<td>12</td>
<td>Stereoselective Synthesis of Unnatural Amino Acids via an Auxiliary-Directed Enolate Alkylation</td>
<td>Hailey Lister</td>
<td>Jeffrey Cannon, Chemistry</td>
</tr>
<tr>
<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>Darren Larsen, Geology</td>
</tr>
</tbody>
</table>
Poster Session 1

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11:00 AM – 12:00 PM

Poster Number

14  *Comparing historical and current intertidal algae and invertebrate communities in MPA and non-MPA sites in the Palos Verdes Peninsula*
    Dafna Erana  
    (Mentor: Daniel Pondella, Biology)

16  *Are Artists Better Observers?*
    Oliver Killeen  
    (Mentor: Carmel Levitan, Cognitive Science)

17  *Electromechanical Reshaping of Cartilage and the Molecular and Chemical Effects of Water Electrolysis on Tissue and Cell Viability*
    Lynn He  
    (Mentor: Michael Hill, Chemistry)

18  *The Effect of Auditory Memory on Musical Preference*
    Alexander Levers  
    (Mentor: Aleksandra Sherman, Cognitive Science)

19  *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*
    Sierra Hunter  
    (Mentor: Michael Hill, Chemistry)

20  *Magnetic Isolation of Pure Phagosomes*
    Mitchell Johnson  
    (Mentor: Cheryl Okumura, Biology)

21  *Not Your Average Biology Textbook: Learning Science through Art*
    Naomi Field  
    (Mentor: Shana Goffredi, Biology)

22  *Impact of microenvironment water conditions on Coast Live Oak resistance to beetle vectors and affiliated fungal pathogen*
    Brianna Baker  
    (Mentor: Elizabeth Braker, Biology)

23  *Producing Cytochrome P450 Mutants for Biocatalysis*
    Elleni Bekele  
    (Mentor: Andrew Udit, Chemistry)

24  *Increasing Motor Coordination Through Induced Alpha Wave Neural Synchrony*
    Kyle Costello  
    (Mentor: Aleksandra Sherman, Cognitive Science)
Poster Session 1

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<tbody>
<tr>
<td>25</td>
<td>Exploring the internal jungle of Costa Rican Chrysomelid beetles: Potential bacterial symbionts discovered</td>
<td>Camille Brzechffa</td>
<td>(Mentor: Shana Goffredi, Biology)</td>
</tr>
<tr>
<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>(Mentor: Eileen Spain, Chemistry)</td>
</tr>
<tr>
<td>27</td>
<td>Exploring an Extended Hybrid Zone between Blue-capped Motmot’s and Lesson’s Motmot</td>
<td>Miles Collins</td>
<td>(Mentor: John McCormack, Biology)</td>
</tr>
<tr>
<td>28</td>
<td>Nature’s Classroom: An Exploration of Outdoor Education Programs</td>
<td>Brian Lavongtheung</td>
<td>(Mentor: Bevin Ashenmiller, Economics)</td>
</tr>
<tr>
<td>29</td>
<td>Identifying and Extracting Product-Specific and Domain-Specific Words From Mozilla Bug Summaries</td>
<td>Emily Tran</td>
<td>(Mentor: Celia Chen, Computer Science)</td>
</tr>
<tr>
<td>30</td>
<td>SCOPE LA: Building Grassroots Power in South Los Angeles</td>
<td>Salma Rojas</td>
<td>(Mentor: Peter Dreier and Martha Matsuoka, UEP)</td>
</tr>
<tr>
<td>31</td>
<td>Characterization of Photoinduced Charge Transfer Intermediates in an Electrochemical Solar Cell</td>
<td>Chandler Smith</td>
<td>(Mentor: Michael Hill, Chemistry)</td>
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<tr>
<td>32</td>
<td>Efforts Toward the Total Synthesis of Swerilactone A</td>
<td>Noel Jameson</td>
<td>(Mentor: Raul Navarro, Chemistry)</td>
</tr>
<tr>
<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>(Mentor: Shana Goffredi, Biology)</td>
</tr>
<tr>
<td>34</td>
<td>Selective electrocatalytic hydrocarbon oxidation via high-valent iron centers in supported nanoparticles</td>
<td>Kitty Lu</td>
<td>(Mentor: Michael Hill, Chemistry)</td>
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Poster Session 1

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<tr>
<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>
</tr>
<tr>
<td>36</td>
<td>Group A Streptococcus Decreases Vacuolar ATPase Assembly</td>
<td>Jimin Lee</td>
<td>(Mentor: Cheryl Okumura, Biology)</td>
</tr>
<tr>
<td>37</td>
<td>Probing Cytochrome P450 Biocatalysis via Anaerobic Redox Titrations</td>
<td>Crystal Liang</td>
<td>(Mentor: Andrew Udit, Chemistry)</td>
</tr>
<tr>
<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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<tr>
<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>
</tr>
</tbody>
</table>
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
## Poster Session 2

Posters will be on display on the 3<sup>rd</sup> floor of the Academic Commons

### 3:45 – 4:45 PM

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<tbody>
<tr>
<td>1</td>
<td>A Chronology of U.S. Asset Price Bubbles, 1865-1929</td>
<td>Nelson Rayl</td>
<td>(Mentor: Andrew Jalil, Economics)</td>
</tr>
<tr>
<td>2</td>
<td>Whose Minds are We Studying?</td>
<td>Devon Mann</td>
<td>(Mentor: Carmel Levitan, Cognitive Science)</td>
</tr>
<tr>
<td>3</td>
<td>3D Digital Archive of the Moore Lab Bird Specimens</td>
<td>Joshua Medina</td>
<td>(Mentor: John McCormack, Biology)</td>
</tr>
<tr>
<td>4</td>
<td>Mechanisms of Adhesion Between Bacterial Pili Proteins and Chemically Diverse Surfaces Using Docking and Molecular Dynamics Simulations</td>
<td>Jeremy Leung</td>
<td>(Mentor: Eileen Spain, Chemistry)</td>
</tr>
<tr>
<td>6</td>
<td>How Emerging Adults Cope with Loneliness in College</td>
<td>Lena Etoka</td>
<td>(Mentor: Andrea Hopmeyer, Psychology)</td>
</tr>
<tr>
<td>8</td>
<td>Cobaltocinium Derivatives as Mediators for Biocatalysis with P450 Enzymes</td>
<td>Danica Gressel</td>
<td>(Mentor: Andrew Udit, Chemistry)</td>
</tr>
<tr>
<td>9</td>
<td>Cobaltocinium Derivatives as Mediators for Biocatalysis with P450 Enzymes</td>
<td>Ayanna Lynch</td>
<td>(Mentor: Andrew Udit, Chemistry)</td>
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<tr>
<td>10</td>
<td>Characteristics of cyt-c552 and CuA proteins on self-assembled thiol monolayers using gold bead electrodes</td>
<td>Charlotte Cullip</td>
<td>(Mentor: Michael Hill, Chemistry)</td>
</tr>
<tr>
<td>11</td>
<td>The Greatest Documentary</td>
<td>Kendrick Shoji</td>
<td>(Mentor: Ari Laskin, Media Arts and Culture)</td>
</tr>
<tr>
<td>12</td>
<td>Synthesis of Allylic Alcohols/Condensation with L-pyroglutamic Acid</td>
<td>David Collins</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
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</table>
Poster Session 2

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<tr>
<td>13</td>
<td>Potential Obstacles for Agriculture on Mars: Effects of Perchlorate on Seed Germination and Plant Health</td>
<td>Joshua Beisel</td>
<td>(Mentor: Gretchen North, Biology)</td>
</tr>
<tr>
<td>14</td>
<td>Biogeochemistry of CO2 and CH4 Related to Vegetation Health in Soils</td>
<td>Eleanor Amann</td>
<td>(Mentor: Christopher Oze, Geology)</td>
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<tr>
<td>15</td>
<td>Tension X</td>
<td>August Barringer</td>
<td>(Mentor: Mary Beth Heffernan, Art and Art History)</td>
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<tr>
<td>16</td>
<td>Genetic Analysis of Suppressors of Microtubule Defects in C. elegans Motor Neurons</td>
<td>Michael Ozaki</td>
<td>(Mentor: Renee Baran, Biology)</td>
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<td>17</td>
<td>Diastereoselective Synthesis of Unnatural Amino Acid Derivatives via Auxiliary-Directed Enolate Alkylation</td>
<td>Marc Kawada</td>
<td>(Mentor: Jeffrey Cannon, Chemistry)</td>
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<tr>
<td>18</td>
<td>Housekeys Not Handcuffs, Not Shelters: LA CAN’s Fight for Housing as a Human Right and the Decriminalization of Unhoused People</td>
<td>Melissa Mateo</td>
<td>(Mentors: Peter Dreier and Martha Matsuoka, UEP)</td>
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<tr>
<td>19</td>
<td>Multisensory Processing and Sequence Learning</td>
<td>Kirsten Laursen</td>
<td>(Mentor: Carmel Levitan, Cognitive Science)</td>
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<tr>
<td>20</td>
<td>Efforts to Develop a Thiourea-Catalyzed Addition to ortho-Quinone Methides</td>
<td>Cheyenne Orozco</td>
<td>(Mentor: Raul Navarro, Chemistry)</td>
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<tr>
<td>22</td>
<td>Non Profits and Los Angeles’ Housing Crisis: Evaluating Coalition for Economic Survival</td>
<td>Tori Funk</td>
<td>(Mentors: Peter Dreier and Martha Matsuoka, UEP)</td>
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<td>Native bee diversity on Eriogonum fasciculatum in Los Angeles County</td>
<td>Cora Davies</td>
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<td>24</td>
<td>Beyond Teeth: Examining Access to Medicaid Dental Benefits in Los Angeles County</td>
<td>Elena Daniel, Ryan Lee and Ben Smith</td>
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# Poster Session 2

Posters will be on display on the 3<sup>rd</sup> floor of the Academic Commons

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<td>Efforts to Develop a Thiourea-catalyzed Addition to ortho-Quinone Methides</td>
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<td>Heat Tolerance Related to Leaf Size and Shape of Varying Tropical and Temperate Trees</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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<td>Targeted knockout of katanin genes in C. elegans by CRISPR and RNAi</td>
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Poster Session 2

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

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<td>Emma Yudelevitch</td>
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<td>The Flight of the Bumblebee: Shifting Species Distributions in Southern California</td>
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## Presentations in alphabetical order, by student:

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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

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

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: Andrew Udit
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

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

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

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

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

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

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

Mentor: Darren Larsen
Majors: Environmental Science, Geology
Funding: Sarah H. Roberts ’68 and David H. Roberts ’67 Annual Research Fellowship in Environmental Sciences
David Collins ’20
Synthesis of Allylic Alcohols/Condensation with L-pyroglutamic Acid
Academic Commons, Session 2, Poster 12

Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: Summer Undergraduate Research Fellowship

Miles Collins ’19
Exploring an Extended Hybrid Zone between Blue-capped Motmot’s and Lesson’s Motmot
Academic Commons, Session 1, Poster 27

Mentor: John McCormack
Major: Biochemistry
Funding: NSF Grant to Dr. McCormack, Integrating Undergraduate Research, Citizen Scientists

Kyle Costello ’19
Increasing Motor Coordination Through Induced Alpha Wave Neural Synchrony
Academic Commons, Session 1, Poster 24

Mentor: Aleksandra Sherman
Major: Cognitive Science
Funding: Ford Research Mentor’s Endowment

Anne Marie Crooke ’19
Dual Lewis Acid/Photoredox Catalyzed Ketyl Radical Cyclizations
Fowler 309, 2:40 PM

Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: The Kenneth T. and Eileen L. Norris Foundation Science Scholar

Charlotte Cullip ’19
Characteristics of cyt-c552 and CuA proteins on self-assembled thiol monolayers using gold bead electrodes
Academic Commons, Session 2, Poster 10

Mentor: Michael Hill
Majors: Chemistry, Computer Science
Funding: The Fletcher Jones Foundation Science Scholar

Elena Daniel ’20
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: Kinesiology
Funding: UEP, Public Health Internship

Cora Davies ’19
Native bee diversity on Eriogonum fasciculatum in Los Angeles County
Academic Commons, Session 2, Poster 23

Mentor: Elizabeth Braker
Major: Biology
Funding: Norris Research Endowment

Alex Duncan ’20
Murals, Heritage, and Cultural Exchange between Cairo and Highland Park
Fowler 309, 2:00 PM

Mentor: Eric Frank
Major: Art History
Funding: Mellon Foundation: Arts and Urban Experience
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

Mentor: Martha Matsuoka
Major: Urban and Environmental Policy
Funding: UEP, Affordable Housing Internship

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

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

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

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

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

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

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
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<td>Melissa Mateo ‘21</td>
<td>House keys Not Handcuffs, Not Shelters: LA CAN's Fight for Housing as a Human Right and the Decriminalization of Unhoused People</td>
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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: Arston Memorial Essay Award

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

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

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

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

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

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

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

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

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. Proffit '66

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

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

Ben Smith ’20
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: Urban and Environmental Policy
Funding: UEP, Public Health Internship

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

Evan Trill ’19
Identification 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

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Eric Sundberg

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Area Coordinator:
Lan Chu

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

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