

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.

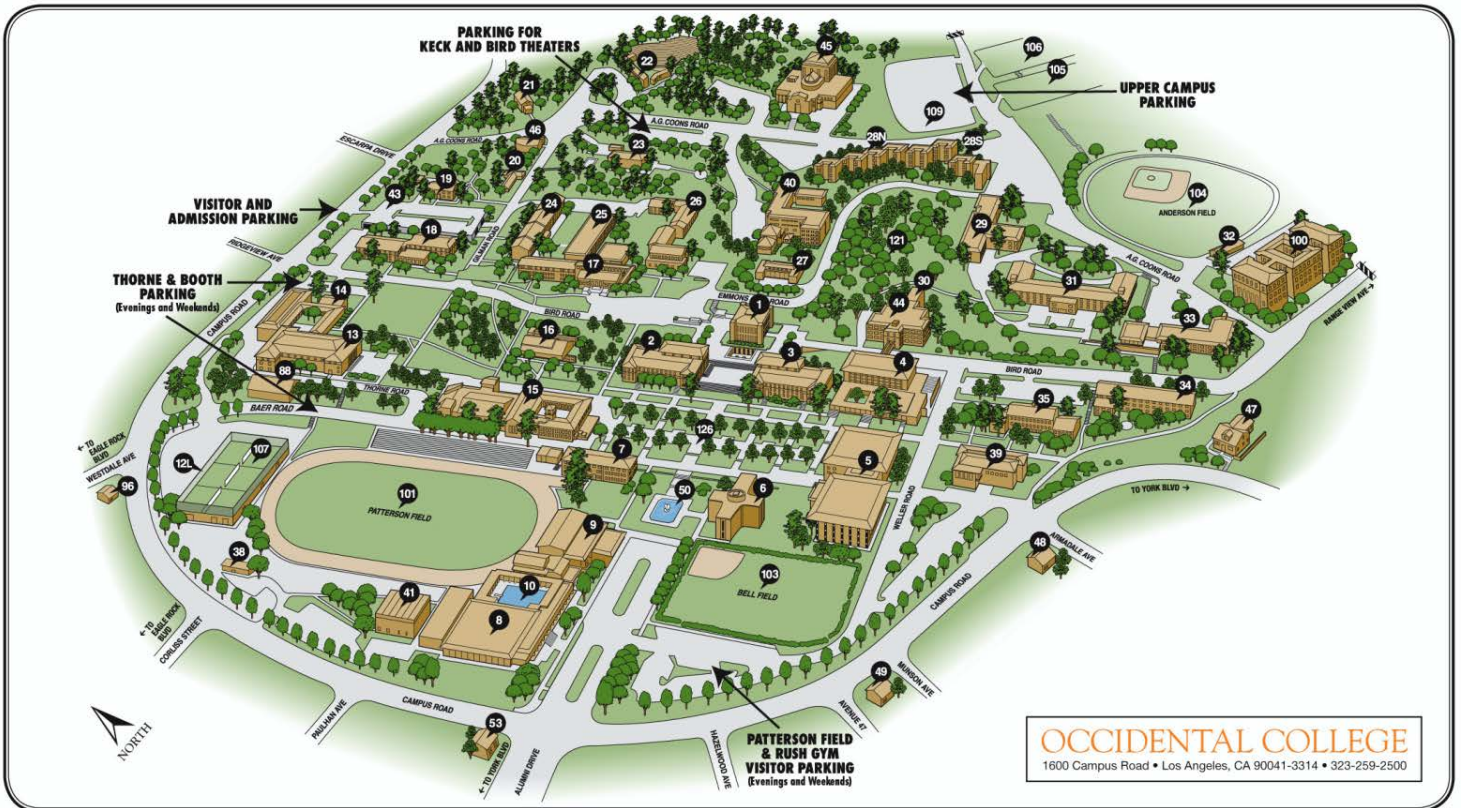
With over 130 students, this is our largest conference to date. Putting together a conference of this size can be challenging, but it's also exciting for us to see how our program has grown. Making undergraduate research happen at Oxy is a campus-wide effort. Our students are supported not only by their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



OCCIDENTAL COLLEGE
 1600 Campus Road • Los Angeles, CA 90041-3314 • 323-259-2500

Admission Office – Collins House* 19	Center for Gender Equity (inside Stewart-Cleland Hall) 31	Herrick Memorial Chapel/Interfaith Center 6	Rush Gymnasium 8
Admission and Visitor Parking 43	Central Chiller Plant 88	Intercultural Community Center (1501 Campus Road) 48	Samuelson Campus Pavilion*/Tiger Cooler 16
Alumni Gymnasium/Fitness Center* 9	Central Quadrangle* 126	Johnson Hall/Alumni Auditorium* 2	Soccer Fields (lower and upper) 105-106
Alumni Relations (1541 Campus Road) 49	Chilcott Hall 25	Johnson Student Center and Freeman College Union* 15	Spencer Field House 32
Anderson Field 104	Child Development Center (1824 Campus Road) 20	Keck Theater 45	Stearns Hall 40
Annenberg President's House* (1852 Campus Road) 23	Clapp Library/Jeffer's Room* 5	McKinnon Family Tennis Center (upper level) 107	Stewart-Cleland Hall 31
Arthur G. Coons Administrative Center 1	College Guest House (1480 Campus Road) 47	Moore Laboratory of Zoology 30	Swan Hall* 7
Bell Field 103	Community Literacy Center (Thorne 4 – at rear) 13	Mullin Family Studio and Art Gallery 46	Sycamore Glen 121
Bell-Young Hall 34	Culley Athletic Facility 41	Newcomb Hall 18	Taylor Pool/Field Building* 10
Berkus House (1601 Campus Road) 53	Emmons Health & Counseling Center* 27	Norris Hall North & South 28	Thorne Hall* 13
Bioscience Building 44	Erdman Hall* 24	Norris Hall of Chemistry/Mosher Lecture Hall 4	Upper Campus Parking Lot 109
Bird Hillside Theater* 22	Fowler Hall* 3	Patterson Field/Bill Henry Track* 101	Upward Bound (1737 Campus Road) 96
Booth Music and Speech Center/Bird Studio* 14	Gilman Fountain 50	Pauley Hall 33	Urban & Environmental Policy Institute* (1882 Campus Road) 21
Braun Hall 29	Haines Hall* 26	Psychology Laboratory 38	Weingart Center for the Liberal Arts* 17
Campus Safety/Facilities Management (lower level) 12L	Hametman Science Center 39	Rangeview Hall 100	Wylie Hall* 35

*DESIGNED BY MYRON HUNT

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 Ponders
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

**Poster
Number**

- 1 *Geomagnetic Field Intensity Changes During an R-N Polarity Reversal Recorded by Mafic Lava Flows, Anahola, Kauai*
Yiming Zhang (Mentor: Scott Bogue, Geology)
- 2 *Synthesis of Furanolactone Motifs by Photoredox and Lewis Acid Catalyzed Ketyl Radical Cyclization*
Paul Tomlinson (Mentor: Jeffrey Cannon, Chemistry)
- 4 *Peer Popularity Among Emerging Adults in College*
Monica Chernoff (Mentor: Andrea Hopmeyer, Psychology)
- 5 *A Case Study of Community-Led Development at East LA Community Corporation*
Gabriela Elliott (Mentor: Martha Matsuoka, UEP)
- 6 *Morphometric Relationships for Macroinvertebrates of Southern California's Rocky Reefs*
Hannah Hoefs (Mentor: Daniel Pondella, Biology)
- 7 *Chaotic Desires: Embodying Creative Anarchy in the Early Russian Avant-Garde*
Zoë Foster-La Du (Mentor: Christopher Gilman, CDLA)
- 8 *Methodologies for Photoredox-Catalyzed Cyclizations*
Katherine Forbes (Mentor: Jeffrey Cannon, Chemistry)
- 9 *Human Mammary Epithelial Cell Organoids as Models for Aging Related Functional Markers for Breast Cancer*
Divya Moolamalla (Mentors: Mark LaBarge and Michael Todhunter, City of Hope)
- 10 *Saving an Endangered Language Through Technology*
William Chen (Mentor: Amy Holmes-Tagchungdarpa, Religious Studies)
- 12 *Stereoselective Synthesis of Unnatural Amino Acids via an Auxiliary-Directed Enolate Alkylation*
Hailey Lister (Mentor: Jeffrey Cannon, Chemistry)
- 13 *Generating the Frequency of Past Earthquakes from Lake Sediment Cores in Grand Teton National Park, WY*
Aria Blumm (Mentor: Darren Larsen, Geology)

Poster Session 1

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

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

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

11:00 AM – 12:00 PM

**Poster
Number**

- 25 *Exploring the internal jungle of Costa Rican Chrysomelid beetles: Potential bacterial symbionts discovered*
Camille Brzechffa (Mentor: Shana Goffredi, Biology)
- 26 *Quantitative Atomic Force Microscopy Investigation of Adhesion of a Planktonic Bacterial Predator to Biofilm Prey*
Ruby Yuyu Chen (Mentor: Eileen Spain, Chemistry)
- 27 *Exploring an Extended Hybrid Zone between Blue-capped Motmot's and Lesson's Motmot*
Miles Collins (Mentor: John McCormack, Biology)
- 28 *Nature's Classroom: An Exploration of Outdoor Education Programs*
Brian Lavongtheung (Mentor: Bevin Ashenmiller, Economics)
- 29 *Identifying and Extracting Product-Specific and Domain-Specific Words From Mozilla Bug Summaries*
Emily Tran (Mentor: Celia Chen, Computer Science)
- 30 *SCOPE LA: Building Grassroots Power in South Los Angeles*
Salma Rojas (Mentor: Peter Dreier and Martha Matsuoka, UEP)
- 31 *Characterization of Photoinduced Charge Transfer Intermediates in an Electrochemical Solar Cell*
Chandler Smith (Mentor: Michael Hill, Chemistry)
- 32 *Efforts Toward the Total Synthesis of Swerilactone A*
Noel Jameson (Mentor: Raul Navarro, Chemistry)
- 33 *Differences in microbiome diversity and abundance between sister species of Jadera; seed-eating insects from Costa Rica and California*
Vanessa Rodriguez (Mentor: Shana Goffredi, Biology)
- 34 *Selective electrocatalytic hydrocarbon oxidation via high-valent iron centers in supported nanoparticles*
Kitty Lu (Mentor: Michael Hill, Chemistry)

Poster Session 1

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

11:00 AM – 12:00 PM

**Poster
Number**

- 35 *Deprivation Induced Hyperactivity: Exploring Energy Balance in Rats*
Rhea Bhatia (Mentors: Dale Chapman and Nancy Dess, Psychology)
- 36 *Group A Streptococcus Decreases Vacuolar ATPase Assembly*
Jimin Lee (Mentor: Cheryl Okumura, Biology)
- 37 *Probing Cytochrome P450 Biocatalysis via Anaerobic Redox Titrations*
Crystal Liang (Mentor: Andrew Udit, Chemistry)
- 38 *Geographic Variation Among Russet Nightingale-Thrushes*
David Mosack (Mentor: John McCormack, Biology)
- 39 *Using Virus Nanoparticles to develop an Alternative Antagonist to Heparin*
Andrew Park (Mentor: Andrew Udit, Chemistry)

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
- 3:25 *The Resurgence of Catholic Exorcisms in the United States: The New Age and the Theological Rejection of Modernity*
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

3:25 *Oxidation of Hydrocarbons with a Laser-Ablated Catalyst Using a Custom Flow-through Cell*

Ben Sappey

Mentor: Michael Hill, Chemistry

Poster Session 2

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

3:45 – 4:45 PM

**Poster
Number**

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

Poster Session 2

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

3:45 – 4:45 PM

**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)

Poster Session 2

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

3:45 – 4:45 PM

Poster Number		
25	<i>Efforts to Develop a Thiourea-catalyzed Addition to ortho-Quinone Methides</i> Mario Lemus	(Mentor: Raul Navarro, Chemistry)
26	<i>Heat Tolerance Related to Leaf Size and Shape of Varying Tropical and Temperate Trees</i> Meike Buhaly	(Mentor: Gretchen North, Biology)
27	<i>Delta Sets of Non-Minimal Numerical Monoid</i> Vena Zhang	(Mentor: Jay Daigle, Mathematics)
28	<i>Morphological Variation in the Spot-crowned Woodcreeper</i> Leeza Lu	(Mentor: John McCormack, Biology)
29	<i>Synthesizing furanolactone motifs via photocatalyzed redox</i> Warren Zhang	(Mentor: Jeffrey Cannon, Chemistry)
30	<i>Biogeochemistry of Perchlorate in Martian Regolith</i> Eddy Dabsys	(Mentor: Christopher Oze, Geology)
31	<i>A Host Range Survey of the Ambrosia Beetle (Coleoptera: Scolytinae) - Phytopathogenic Fungus Complex in Los Angeles, California</i> Diego Zapata	(Mentor: Gretchen North, Biology)
32	<i>Electrochemical Hydrolysis of Adipose Tissue</i> Anna Stokolosa	(Mentor: Michael Hill, Chemistry)
33	<i>Along strike variation in exhumation history in Far Western Nepal's Main Central Thrust</i> Spencer Patrick	(Mentor: Ann Blythe, Geology)
34	<i>Novel Anticoagulants Using Sulfated Dendrons on Virus-like Particles</i> Ali Vogelaar	(Mentor: Andrew Udit, Chemistry)
35	<i>Targeted knockout of katanin genes in C. elegans by CRISPR and RNAi</i> Iris Zhang	(Mentor: Renee Baran, Biology)
36	<i>Total Synthesis of DAB-1</i> Scott Niman	(Mentor: Jeffrey Cannon, Chemistry)

Poster Session 2

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

3:45 – 4:45 PM

**Poster
Number**

- 37 *Policy Advocacy: The LAANE Model*
Emma Yudelevitch (Mentor: Peter Dreier and Martha Matsuoka, UEP)
- 38 *The Flight of the Bumblebee: Shifting Species Distributions in Southern California*
Bryce Lewis-Smith (Mentor: Elizabeth Braker, Biology)
- 39 *LA Voice*
Kathy Sorto (Mentor: Peter Dreier, UEP)

Presentations in alphabetical order, by student:

Last Name	Session	Time	Poster or Room Number
Addington	Oral 2B	9:50 AM	Fowler 202
Alberg	Oral 4B	2:55 PM	Fowler 202
Allison	Oral 3A	1:45 PM	Fowler 112
Amann	Poster 2	3:45 PM	14
Arias	Oral 3C	2:00 PM	Fowler 209
Ash	Oral 3A	2:00 PM	Fowler 112
Baker	Poster 1	11:00 AM	22
Barringer	Poster 2	3:45 PM	15
Beisel	Poster 2	3:45 PM	13
Bekele	Poster 1	11:00 AM	23
Bhatia	Poster 1	11:00 AM	35
Blumm	Poster 1	11:00 AM	13
Brzechffa	Poster 1	11:00 AM	25
Buhaly	Poster 2	3:45 PM	26
Cancel	Oral 3B	2:15 PM	Fowler 202
Chen, R	Poster 1	11:00 AM	26
Chen, W	Poster 1	11:00 AM	10
Chernoff	Poster 1	11:00 AM	4
Collins, D	Poster 2	3:45 PM	12
Collins, M	Poster 1	11:00 AM	27
Costello	Poster 1	11:00 AM	24
Crooke	Oral 4D	2:40 PM	Fowler 309
Cullip	Poster 2	3:45 PM	10
Dabsys	Poster 2	3:45 PM	30
Daniel et al.	Poster 2	3:45 PM	24
Davies	Poster 2	3:45 PM	23
Duncan	Oral 3D	2:00 PM	Fowler 309
Elia	Oral 2B	10:05 AM	Fowler 202
Elliott	Poster 1	11:00 AM	5
Erana	Poster 1	11:00 AM	14
Essayan	Oral 4D	2:55 PM	Fowler 309
Etoka	Poster 2	3:45 PM	6
Farrow	Oral 3B	2:00 PM	Fowler 202
Field	Poster 1	11:00 AM	21
Figueroa	Oral 2A	10:05 AM	Fowler 112
Forbes	Poster 1	11:00 AM	8
Foster-La Du	Poster 1	11:00 AM	7
Funk	Poster 2	3:45 PM	22
Geddes	Oral 1A	9:20 AM	Fowler 112
Gil	Oral 3C	1:30 PM	Fowler 209

Presentations in alphabetical order, by student:

Last Name	Session	Time	Poster or Room Number
Gilligan	Oral 3B	1:30 PM	Fowler 202
Gressel	Poster 2	3:45 PM	8
Gutierrez	Oral 2B	10:35 AM	Fowler 202
He	Poster 1	11:00 AM	17
Henson	Oral 3B	1:45 PM	Fowler 202
Herdman	Oral 4C	2:55 PM	Fowler 209
Hoefs	Poster 1	11:00 AM	6
Hunter	Poster 1	11:00 AM	19
Hutchins	Oral 4B	3:25 PM	Fowler 202
Jameson	Poster 1	11:00 AM	32
Jan	Oral 1C	9:30 AM	Fowler 209
Johnson	Poster 1	11:00 AM	20
Katrak-Adefowora	Oral 4C	3:10 PM	Fowler 209
Kawada	Poster 2	3:45 PM	17
Killeen	Poster 1	11:00 AM	16
Kleinman	Oral 2C	9:50 AM	Fowler 209
Krelitz	Oral 4A	2:40 PM	Fowler 112
Kwan	Oral 1B	9:00 AM	Fowler 202
Laursen	Poster 2	3:45 PM	19
Lavongtheung	Poster 1	11:00 AM	28
Lechner	Oral 1A	9:00 AM	Fowler 112
Lee, J	Poster 1	11:00 AM	36
Lee, R et al.	Poster 2	3:45 PM	24
Lemus	Poster 2	3:45 PM	25
Leung	Poster 2	3:45 PM	4
Levers	Poster 1	11:00 AM	18
Lewis-Smith	Poster 2	3:45 PM	38
Li	Oral 2A	10:20 AM	Fowler 112
Liang, C	Poster 1	11:00 AM	37
Liang, E	Oral 1B	9:30 AM	Fowler 202
Lister	Poster 1	11:00 AM	12
Lu, K	Poster 1	11:00 AM	34
Lu, L	Poster 2	3:45 PM	28
Lynch	Poster 2	3:45 PM	9
Malmquist	Oral 3A	1:30 PM	Fowler 112
Mann	Poster 2	3:45 PM	2
Martin	Oral 4A	3:25 PM	Fowler 112
Mateo	Poster 2	3:45 PM	18
McCall	Oral 2A	10:35 AM	Fowler 112
Meade	Oral 1C	9:15 AM	Fowler 209

Presentations in alphabetical order, by student:

Last Name	Session	Time	Poster or Room Number
Medina	Poster 2	3:45 PM	3
Miller	Poster 2	3:45 PM	5
Moolamalla	Poster 1	11:00 AM	9
Mosack	Poster 1	11:00 AM	38
Najjar	Oral 4D	3:10 PM	Fowler 309
Niman	Poster 2	3:45 PM	36
Nishioka	Oral 1C	9:00 AM	Fowler 209
Orozco	Poster 2	3:45 PM	20
Ozaki	Poster 2	3:45 PM	16
Pagano	Oral 1B	9:15 AM	Fowler 202
Palmer	Oral 4A	3:10 PM	Fowler 112
Park	Poster 1	11:00 AM	39
Patrick	Poster 2	3:45 PM	33
Pounders	Oral 1A	9:00 AM	Fowler 112
Rayl	Poster 2	3:45 PM	1
Recio	Oral 3C	2:15 PM	Fowler 209
Reid	Oral 2C	10:35 AM	Fowler 209
Rodriguez	Poster 1	11:00 AM	33
Rojas	Poster 1	11:00 AM	30
Sappey	Oral 4D	3:25 PM	Fowler 309
Searles	Oral 3D	1:45 PM	Fowler 309
Shoji	Poster 2	3:45 PM	11
Silverstein	Oral 3D	2:15 PM	Fowler 309
Smith, B et al.	Poster 2	3:45 PM	24
Smith, C	Poster 1	11:00 AM	31
Song-Nichols	Oral 2A	9:50 AM	Fowler 112
Sorto	Poster 2	3:45 PM	39
Stokolosa	Poster 2	3:45 PM	32
Tenney	Oral 4B	2:40 PM	Fowler 202
Tessier	Oral 3D	1:30 PM	Fowler 309
Tibebu	Oral 3C	1:45 PM	Fowler 209
Tomlinson	Poster 1	11:00 AM	2
Torres	Oral 4C	2:40 PM	Fowler 209
Tran	Poster 1	11:00 AM	29
Tripp	Oral 4A	2:55 PM	Fowler 112
Vogelaar	Poster 2	3:45 PM	34
Waithira	Oral 2C	10:50 AM	Fowler 209
Weider	Oral 1A	9:20 AM	Fowler 112
West	Oral 4B	3:10 PM	Fowler 202
Wheeler	Oral 2C	10:05 AM	Fowler 209

Presentations in alphabetical order, by student:

Last Name	Session	Time	Poster or Room Number
Wilk	Oral 2C	10:20 AM	Fowler 209
Yudelevitch	Poster 2	3:45 PM	37
Zapata	Poster 2	3:45 PM	31
Zhang, I	Poster 2	3:45 PM	35
Zhang, V	Poster 2	3:45 PM	27
Zhang, W	Poster 2	3:45 PM	29
Zhang, Y	Poster 1	11:00 AM	1
Zhao	Oral 2B	10:20 AM	Fowler 202

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

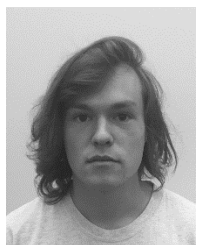


Mentor: D. Keith Naylor
Majors: Religious Studies, Spanish
Funding: Ford Research Mentor's Endowment

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 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



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

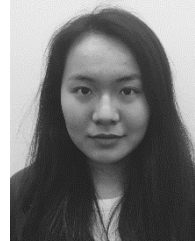
The Bone of Contention
Fowler 202, 2:15 PM



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

Ruby Yuyu Chen '19

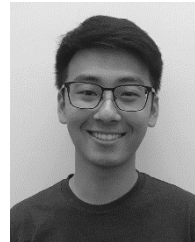
**Quantitative Atomic Force
Microscopy Investigation of
Adhesion of a Planktonic Bacterial
Predator to Biofilm Prey**
Academic Commons, Session 1,
Poster 26



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

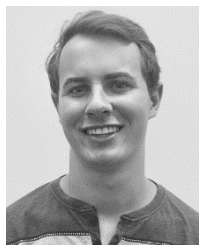
**Peer Popularity Among Emerging
Adults in College**
Academic Commons, Session 1,
Poster 4



Mentor: Andrea Hopmeyer
Major: Psychology
Funding: Gift of Dr. Andrew F. Newcomb '75

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

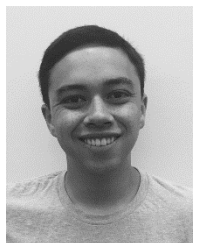
Exploring an Extended Hybrid Zone between Blue-capped Motmot's and Lesson's Motmot
Academic Commons, Session 1,
Poster 27



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

Eddy Dabsys '19

Biogeochemistry of Perchlorate in Martian Regolith
Academic Commons, Session 2,
Poster 30



Mentor: Christopher Oze
Major: Environmental Geology
Funding: Ford Research Mentor's Endowment

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 Etoke '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

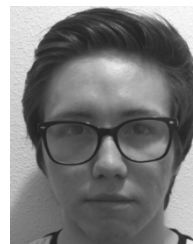
Not Your Average Biology Textbook: Learning Science through Art
Academic Commons, Session 1, Poster 21



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

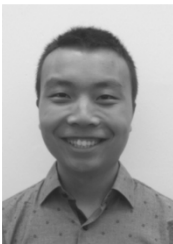
**Economic Self-Interest Re-
Examined: Using Folk Economics
to Understand Inequality**
Fowler 112, 2:40 PM



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

Brian Lavongtheung '19

**Nature's Classroom: An Exploration
of Outdoor Education Programs**
Academic Commons, Session 1,
Poster 28



Mentor: Bevin Ashenmiller
Major: Biology
Funding: Gift from Naomi N. Kurata and
Fred Kurata, M.D. '71 (Kurata
Economics/Biology Fund)

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

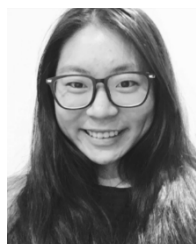


Mentor: Elizabeth Braker
Major: Biology
Funding: Summer Undergraduate Research
Fellowship

Lijia Li '20

Comparing Word Embeddings and Information Retrieval Approaches to Affordance Extraction

Fowler 112, 10:20 AM

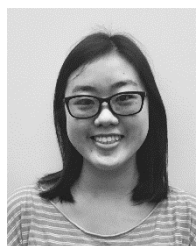


Mentor: Justin Li
Major: Computer Science
Funding: Ford Research Mentor's
Endowment

Crystal Liang '19

Probing Cytochrome P450 Biocatalysis via Anaerobic Redox Titrations

Academic Commons, Session 1,
Poster 37

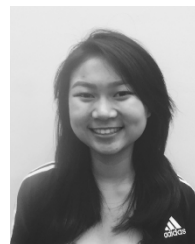


Mentor: Andrew Udit
Major: Biochemistry
Funding: National Science Foundation,
COSMOS Grant

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

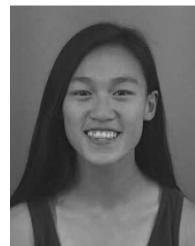


Mentor: Jeffrey Cannon
Major: Undeclared
Funding: Summer Undergraduate Research
Fellowship

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

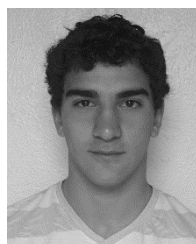


Mentor: John McCormack
Majors: Biology, English
Funding: NSF Grant to Dr. McCormack, Integrating Undergraduate Research, Citizen Scientists

Joey Najjar '19

Asymmetric Cobaltocenium Derivatives for Mediated Electrochemical Biocatalysis

Fowler 309, 3:10 PM

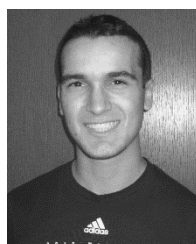


Mentor: Andrew Udit
Major: Chemistry
Funding: The Kenneth T. and Eileen L. Norris Foundation Science Scholar

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

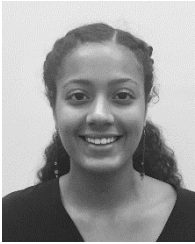
Fowler 202, 9:15 AM



Mentor: Ramin Naimi
Major: Undeclared
Funding: Summer Undergraduate Research Fellowship

Anna Palmer '19

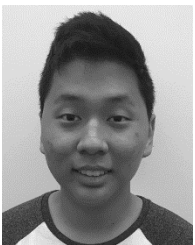
**Afro-Caribbean Immigrant
Motherhood: An Exploratory Study**
Fowler 112, 3:10 PM



Mentor: Richard Mora
Major: Sociology
Funding: Ford Research Mentor's
Endowment

Andrew Park '20

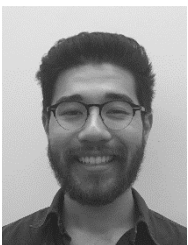
**Using Virus Nanoparticles to
develop an Alternative Antagonist
to Heparin**
Academic Commons, Session 1,
Poster 39



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

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

Robin Pounders '19

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



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

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

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

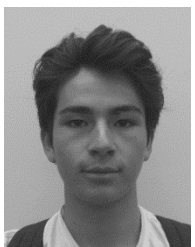
The Fight for Legitimacy of "Meaningless" Music: Understanding Trap Through the Lens of Bebop
Fowler 309, 1:45 PM



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

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
Majors: 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: Arnston Memorial Essay Award

Asher Tessier '20

Dramatizing Lawrence

Fowler 309, 1:30 PM

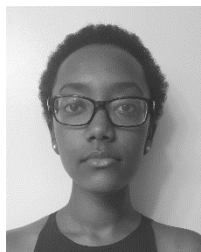


Mentor: Sarah Kozinn
Major: Media Arts and Culture
Funding: Ford Research Mentor's Endowment

Elizabeth Tibebe '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

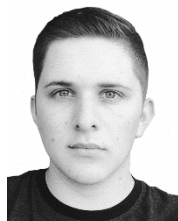


Mentor: Jeffrey Cannon
Majors: Chemistry, Economics
Funding: Ford Research Mentor's Endowment

Luis Torres '18

Evaluation of Fundación Nutrís 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

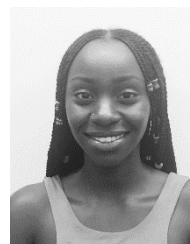


Mentor: Andrew Udit
Major: Chemistry
Funding: Summer Undergraduate Research Fellowship

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

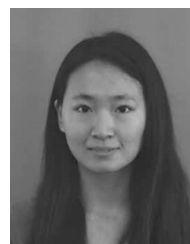


Mentor: Renee Baran
Major: Biology
Funding: Summer Undergraduate Research Fellowship

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

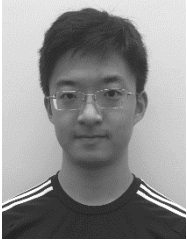


Mentor: Jeffrey Cannon
Major: Biochemistry
Funding: Summer Undergraduate Research Fellowship

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

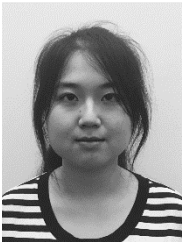
Major: Geology

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

Thank you!

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- Kathryn A. Cannon, J.D. '82 and Jerome R. Cannon P'07
- Mary S. Caswell Endowment
- Chemistry and Biochemistry Summer Research Fellowship
- Professor George H. Cleland Endowed Undergraduate Summer Research Fellowship in Organic Chemistry
- Donald R. Deardorff Endowed Undergraduate Summer Research Fellowship for Chemistry
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- The Fletcher Jones Foundation
- Ford Foundation Research Fellows Endowment
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- Kneeland Ministry Prize
- Naomi N. Kurata and Fred K. Kurata, M.D. '71/Kurata Economics-Biology Fund and the Kurata Endowed Biology Fund
- Institute for the Study of Los Angeles
- Patricia H. Mack '52
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- Miller-Van Gerpen Endowment
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- National Institutes of Health
- National Science Foundation
- Dr. Andrew F. Newcomb '75
- The Kenneth T. and Eileen L. Norris Foundation
- Dr. Bimal R. Patel '90
- Mark Paulsen '10 Endowed Research Fellowship in the Chemical Sciences
- Barbara Proffitt and Dr. Richard T. Proffitt '66
- The Paul K. & Evalyn E. Cook Richter Trusts
- Sarah H. Roberts '68 and David H. Roberts '67 Annual Research Fellowship in Environmental Sciences
- The Will J. Reid Foundation
- Don and Priscilla Smith Endowment for Summer Undergraduate Research
- Su Lee Stark and Dr. Thomas E. Stark P'12
- John Stauffer Charitable Trust
- Summer Faculty/Student Research Endowment
- Dr. David Scott Talaga '91
- Owen Thomas '07
- Undergraduate Research Fund for Corporate Responsibility
- Undergraduate Research Program
- Virginia Reid Moore '37 Summer Research Fellowship
- Robert W. Winter History of Art & Architecture Summer Research Fellowship

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.

2018 Summer Research Program Selection Committee

Andrew Shtulman (Chair)

Treena Basu
Maryanne Horowitz

Darren Larsen
Daniel Pondella
Eric Sundberg

Faculty Mentors

Bevin Ashenmiller
Renee Baran
Ann Blythe
Scott Bogue
Elizabeth Braker
Jeff Cannon ⁽¹⁾⁽³⁾
Dale Chapman
Celia Chen
Zinzi Clemmons
Jay Daigle ⁽¹⁾
Alexander Day
Nancy Dess
Peter Dreier
Heng Lam Foong
Broderick Fox
Eric Frank ⁽³⁾
Gabriel Freiman
Jean-Luc Gauvreau
Susan Geffen ⁽³⁾
Christopher Gilman
Shana Goffredi ⁽¹⁾
Mary Beth Heffernan
Michael G. Hill ⁽²⁾
Amy Holmes-
Tagchungdarpa
Andrea Hopmeyer ⁽¹⁾
Andrew Jalil
David Kasunic ⁽²⁾
Brian Kim
Sarah Kozinn

Darren Larsen
Ari Laskin
Brandon Lehr
Ross Lerner
Carmel Levitan
Justin Li
John Chung-En Liu
Martha Matsuoka ⁽³⁾
John McCormack
Richard Mora ⁽³⁾
Clair Morrissey
Kelema Moses
Ramin Naimi
Raul Navarro ⁽³⁾
D. Keith Naylor ⁽¹⁾⁽³⁾
Gretchen North
Cheryl Okumura ⁽¹⁾⁽²⁾⁽³⁾
Christopher Oze ⁽²⁾
Daniel Pondella
Julie Prebel ⁽³⁾
Marcella Raney ⁽³⁾
Margi Rusmore
Janet Scheel ⁽³⁾
Joseph Schulz
Bhavna Shamasunder ⁽²⁾
Aleksandra Sherman
Andrew Shtulman ⁽²⁾⁽³⁾
Daniel Snowden-Ifft ⁽²⁾⁽³⁾
Eileen Spain
Marla Stone

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

Other Faculty Contributors

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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Undergraduate Research Center Staff

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

Program designed by: Makayla Keasler '20

Front cover photo of 2018 SRP fellows: Marc Campos



NOTES:
