August 4, 2021

Dear Summer Research Conference Attendees,

On behalf of the Occidental College Undergraduate Research Center, it is my pleasure to welcome you to our 22nd annual Summer Research Conference. We are proud to recognize the achievements of our 2021 SRP cohort who, with guidance from their faculty-mentors, have spent the last ten weeks immersed in independent research or creative projects.

Undergraduate research is a signature component of the Occidental College education; faculty-mentored research activities in the sciences can be traced back to the 1950’s at the College. In order to expand faculty-mentored research beyond the sciences, an Undergraduate Research Center (URC) was established in 1998. Under the guidance of founding director, Dr. Chris Craney, the first Occidental College Summer Research Program (SRP) was held the following summer. Today, 143 students from the SRP and the UEP/UEPI Summer Internship Program will be presenting their work!

Occidental’s commitment to building a community of scholars and to providing a forum to showcase their achievements stems from the conviction that such activities play a critical role in promoting students’ intellectual autonomy, curiosity, and responsibility. Faculty-mentored research allows students to take an active role in their own education and encourages them to apply, challenge, and further what they are taught in classrooms.

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

Sincerely,

Clair Morrissey
Faculty Director, Undergraduate Research Center
Associate Professor of Philosophy
2021 URC Summer Research Program Conference
Schedule of Events ● August 4, 2021

9:00-9:20 AM Welcome in the Virtual Quad
Prof. Clair Morisseyy, URC Director
Department of Philosophy Associate Professor

9:30 – 10:30 AM Talks, Session One
Location: Gatherly Rooms

10:45 – 11:45 AM Poster Presentations, Session One
Location: Gatherly Halls

11:45 AM – 12:30 PM Lunch Break

12:30 – 1:15 PM Talks, Session Two
Location: Gatherly Rooms

1:30 – 2:30 PM Poster Presentations, Session Two
Location: Gatherly Halls

2:45 – 3:45 PM Talks, Session Three
Location: Gatherly Rooms

4:00 – 5:00 PM Talks, Session Four
Location: Gatherly Rooms

5:00 PM Conference Ends

5:30 – 6:30 PM End-of-Conference Dinner Reception
Location: Gilman Fountain Plaza

Questions? Visit the helpdesk located in the Welcome Lobby
Talks, Session One (9:30-10:30 AM)

Session 1A: Jacaranda Room
Moderator: Amy Lyford

9:30  Freeway Construction and Human Displacement
      Wren Andres
      Mentor: Amy Lyford (Art & Art History)

9:45  Post-Modern Orientalism: American Misreadings and Misconceptions of Chinese Contemporary Art
      Ray Corpus
      Mentor: Amy Lyford (Art & Art History)

10:00 Early Critical Reception of the Southern California Light and Space Movement
      Olivia Fishman
      Mentor: Amy Lyford (Art & Art History)

10:15 Humanizing Healthcare: Studying the Implementation of the PPE Portrait Project at LAC+USC Medical Center
      Eliza Kirk
      Mentor: Mary Beth Heffernan (Art & Art History)

Session 1B: Oak Room
Moderator: Eileen Spain

9:30  Reshaping Cornea Using Electrochemistry
      Michelle Huang
      Mentor: Michael Hill (Chemistry)

9:45  Electromechanical Reshaping of Cornea
      Jack Thomas-Colwell
      Mentor: Michael Hill (Chemistry)

10:00 Influence of Diffusible Signaling Factor (cis-11-Methyl-2-dodecenoc acid) on Predation of E. coli by B. bacteriovorus on Surfaces
      Valerie Cho
      Mentor: Eileen Spain (Chemistry)

10:15 Recognition of Prey E. coli with Different Number of Phosphates on its Lipid A by Bdellovibrio Bacteriovorus
      Joanne Yi
      Mentor: Eileen Spain (Chemistry)
Session 1C: Olive Room
Moderator: Maryanne Horowitz

9:30  From The Federalist to The Examination: An overview of Alexander Hamilton’s view of executive power
      Matt Chopp
      Mentor: Sharla Fett (History)

9:45  Examining Connections Between Conservation and Eugenics in the Rhetoric of Theodore Roosevelt
      Gus Grunau
      Mentor: Maryanne Horowitz (History)

10:00 Protesting and Polarization: How Media Has Influenced Public Perception of Protests in The United States
      Rowan Hoffman
      Mentor: Jane Hong (History)

10:15 Identities and Mobilization in 1911 Chinese Revolution: Sichuan as an example
      Zhuogeng Li
      Mentor: Alexander F. Day (East Asian Studies, History)

Session 1D: Sycamore Room
Moderator: Mary Christianakis

9:30  Meeting the Demands of Immigration Based Non-Profits
      Pilli Jaquez
      Mentor: Mary Christianakis (Critical Theory & Social Justice)

9:45  Meeting the Demands of Immigration Based Non-Profits
      Karen Garnica
      Mentor: Mary Christianakis (Critical Theory & Social Justice)

10:00 Meeting the Demands of Immigration Based Non-Profits
      Clara Sena-Gersh
      Mentor: Mary Christianakis (Critical Theory & Social Justice)

10:15 Meeting the Demands of Immigration Based Non-Profits
      Thea Wilson
      Mentor: Mary Christianakis (Critical Theory & Social Justice)
Session 1E: Manzanita Room
Moderator: Sabrina Stierwalt

9:30 The Impact of Holistic Structures on Heat Transport in Narrow Rayleigh-Bénard Convection Systems
Ben Faith  
Mentor: Janet Scheel (Physics)

9:45 The Dependence of Lyapunov Exponents on Rayleigh Number for Rayleigh-Bénard Convection
Jeffrey Yang  
Mentor: Janet Scheel (Physics)

10:00 Star Clusters in Interacting Dwarf Galaxies
Tehreem Hai  
Mentor: Sabrina Stierwalt (Physics)

10:15 Looking for Black Holes in Dwarf Galaxies
Olivia Yang  
Mentor: Sabrina Stierwalt (Physics)
Posters, Session One (10:45-11:45 AM)

Session 1A: California Poppy Hall

Poster #

1  Gas from the Ground
   Ishan Ashford
   Mentor: Christopher Oze (Geology)

2  Primary Cell Culture of Adult Zebrafish Neurons
   Arelí Fernandez Orozco
   Mentor: Joseph Schulz (Biology)

3  Life’s a Leech: The Microbial Community Inside of the Southern Californian Marine Leech Pterobdella abditovesiculata
   Rachel Iskanian
   Mentor: Shana Goffredi (Biology)

4  Environmental Ethics: A case study of monarch migration
   Kel Kline
   Mentor: Gretchen North (Biology) & Clair Morrissey (Philosophy)

5  Understanding migration patterns in the Western Kingbird to assess impacts of climate change
   Zerlina Lai
   Mentor: John McCormack (Biology)

6  Understanding migration patterns in the Painted Bunting to assess impacts of climate change
   Melina Sanchez
   Mentor: John McCormack (Biology)

Session 1B: Aster Hall

Poster #

1  Examining Power Structures and Pushing for a More Equitable Future in Alhambra and Monterey Park
   Hunter Gries
   Mentor: Martha Matsuoka (Urban & Environmental Policy)

2  Diachronic changes to journalistic orality: the (re)technologization of the word
   Divya Prakash
   Mentor: Jacob Mackey (Comparative Studies in Language & Culture)

3  The Smell of Sulphur: Understanding Revelation through Early Christianity's Interpretation of Fire and Brimstone
   Alex Smith
   Mentor: Kristi Upson-Saia (Religious Studies)

4  Resisting the Corporate Landlord Takeover of Los Angeles
   Lena Sullivan
   Mentor: Martha Matsuoka (Urban & Environmental Policy)
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<td>Quantifying the Impact of Sea Level Rise and Flooding on Airport Infrastructure</td>
<td>Benjamin Ventresca</td>
<td>Jason Wong (Economics)</td>
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<td><strong>Session 1C: Golden Yarrow Hall</strong></td>
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<td>Stress reactivity in sensitive discussions among young adults</td>
<td>Elizabeth Hagopian</td>
<td>Patricia Cabral (Psychology)</td>
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<td>Gen-Z’s Online Political Choices in the Age of the Echo-Chamber</td>
<td>Emmaline Jeansonne</td>
<td>Aleksandra Sherman (Cognitive Science)</td>
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<td>Retrograde tracing reveals inputs to the ventral palladium in the rat brain</td>
<td>Rachel Kolpa</td>
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<td>Exploring Individual Differences in Bitter/Sweet and Salt Taste Perception Through Rat Studies</td>
<td>Miaja Lemieux</td>
<td>Nancy K. Dess (Psychology)</td>
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<td>5</td>
<td>Awe &amp; Our Internal Clock: Exploring Experiences of Awe In an Immersive Environment</td>
<td>Camille Williams</td>
<td>Aleksandra Sherman (Cognitive Science)</td>
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<td>6</td>
<td>Ethanol Studies Rat Lab</td>
<td>Luigi Maruani</td>
<td>Nancy K. Dess (Psychology) &amp; Dale Chapman (Psychology)</td>
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Session 1D: Yucca Hall

Poster #

1  Modeling Second-Order Theory of Mind through Computational Analogy
   Layal Bata
   Mentor: Irina Rabkina (Computer Science)

2  Cognitive Modeling of Second-Order Theory of Mind
   Elisa Corwin
   Mentor: Irina Rabkina (Computer Science)

3  Analogical Theory of Mind for Multi-Agent Interaction in the Stag-Hunt Game
   Dyani Dillard
   Mentor: Irina Rabkina (Computer Science)

4  Variations in Uplift of the Tehachapi Mountains, Ca from Stream Channel Analysis
   Madeline Doyle
   Mentor: Ann Blythe (Geology)

5  Recognizing Intent in the Stag Hunt Game through Analogical Theory of Mind
   Kathy Liu
   Mentor: Irina Rabkina (Computer Science)

6  Testing Cosmological Predictions with Dwarf Galaxy groups
   David Simpson-Heil
   Mentor: Sabrina Stierwalt (Physics)

7  Dialect Contact in Los Angeles: An Emerging Linguistic Safe Haven
   Noah Yee Yick
   Mentor: Mariška Bolyanatz Brown (Spanish & French Studies)

Session 1E: Bird of Paradise Hall

Poster #

1  Using Virus Nanoparticles to Develop an Alternative Antagonist to Heparin
   Rain (Jun Hyeok) Choi
   Mentor: Andrew Udit (Chemistry)

2  Probing Cytochrome p450 biocatalysis via anaerobic redox titrations
   Wesley Hsiao
   Mentor: Andrew Udit (Chemistry)

3  Derivatization Studies of 3-Allyl Substituted Isobenzofuranones
   Gisela Martinez
   Mentor: Raul Navarro (Chemistry)

4  Synthesis and Evaluation of Substituted Allylic Esters for The Decarboxylative Allylation of Isobenzofuranones
   Tim McClure
   Mentor: Raul Navarro (Chemistry)
Anaerobic Titrations of Heme Protein/Surfactant Systems

Gianna Innocenti
Mentor: Andrew Udit (Chemistry)

Development of a Decarboxylative Allylic Alkylation of Isobenzofuranones:
Synthesis and Evaluation of Backbone-Substituted Phthalides

Connor Saludares
Mentor: Raul Navarro (Chemistry)
**Talks, Session Two (12:30-1:15 PM)**

**Session 2A: Jacaranda Room**  
Moderator: Michael Amoruso

**Andrew Foster**  
Mentor: Amy Holmes-Tagchungdarpa (Religious Studies)

12:45   Challenging Divine Authority - Gilgamesh's Rejection of Ishtar and Sacred Marriage  
**Elena Kerivitsky**  
Mentor: Amy Holmes-Tagchungdarpa (Religious Studies)

1:00   The Divine Donald: Christian Nationalism, Spiritual Warfare Discourse, and Presidential Amorality in the Making of the Capitol Insurrection  
**Maggie Saucedo**  
Mentor: Amy Holmes-Tagchungdarpa (Religious Studies)

**Session 2B: Oak Room**  
Moderator: Kevin Urstadt

12:30   Deprivation-Induced Hyperactivity: A Rat Model of Anorexia  
**Taylor Eng**  
Mentor: Nancy K. Dess (Psychology) & Dale Chapman (Psychology)

12:45   Does Food Insecurity Affect Emotionality?: A Comparative Psychology Approach with Occidental Hi-S and Lo-S Rats  
**Alonso Olvera-Gonzalez**  
Mentor: Nancy K. Dess (Psychology)

1:00   Investigating the Healthcare Experiences of LBQT Latina Women  
**Amanda Medina Segura**  
Mentor: Patricia Cabral (Psychology)

**Session 2C: Olive Room**  
Moderator: Christopher Oze

12:30   Comparison of CO2 and Methane Gas Flux in Different Urban and Oil Development Areas of Los Angeles  
**Caleigh Hoffmann**  
Mentor: Christopher Oze (Geology)

12:45   Reconstructing glacial fluctuations and late Holocene hydroclimate variability in the western U.S. from alpine lake sediments  
**Amelia Muscott**  
Mentor: Darren Larsen (Geology)

1:00   Perchlorate Retention and Removal in Martian Regolith  
**Anna Nefedenkova**  
Mentor: Christopher Oze (Geology)
Session 2D: Sycamore Room
Moderator: Broderick Fox

12:30  Art & Activism: Documentary Filmmaking and Collective Art as a Tool for Migrant Detention Abolition
       Julie Riley
       Mentor: Broderick Fox (Media Arts & Culture)

12:45  LA Stories: Intertwining the Built and the Natural Environments in Short Fiction
       Aria Devlin
       Mentor: Sarah Ostendorf (Writing & Rhetoric)

1:00  Interruptions! Printmaking as Resistance
       Johnna Munsen
       Mentor: Linda Lyke (Art & Art History)

Session 2E: Manzanita Room
Moderator: Sharon Cech

12:30  Urban Agriculture Summer Internship: Uncommon Good
       Alyssa Pfitzer Price
       Mentor: Sharon Cech (Urban & Environmental Policy Institute)

12:45  Urban Agriculture Summer Internship: Community Services Unlimited
       Ashten Reese
       Mentor: Sharon Cech (Urban & Environmental Policy Institute)

1:00  Urban Agriculture Summer Internship: The Urban Homestead
       Irene Wickwire
       Mentor: Sharon Cech (Urban & Environmental Policy Institute)

Session 2F: Cottonwood Room
Moderator: Clair Morrissey

12:30  Carbon nanotube-iron complexes as electrolytes for flow batteries
       Edin Custo
       Mentor: Emmanuelle Despagnet-Ayoub (Chemistry)

12:45  Developing borated iron complexes supported on carbon nanotubes for flow batteries
       Hanyun Lou
       Mentor: Emmanuelle Despagnet-Ayoub (Chemistry)

1:00  Oligomerization of Light Olefins to Heavy Olefins using a Nickel Catalyst on Carbon Nanotubes
       Molly Davis
       Mentor: Emmanuelle Despagnet-Ayoub (Chemistry)
Posters, Session Two (1:30-2:30 PM)

Session 2A: California Poppy Hall

Poster #

1. Carbon Nanotubes Covalently Functionalized By Organometallic Complexes For Redox Flow Batteries
   **Chester Cahill**
   Mentor: Emmanuelle Despagnet-Ayoub (Chemistry)

2. Particle Tracking in Turbulent Rayleigh-Bénard Systems
   **Ling Chen**
   Mentor: Janet Scheel (Physics)

3. Using Virus Nanoparticles to Develop an Alternative Antagonist to Heparin
   **Amanda Inglesias**
   Mentor: Andrew Udit (Biochemistry)

4. Using Virus Nanoparticles to Develop an Alternative Antagonist to Heparin
   **Mashly Martinez**
   Mentor: Andrew Udit (Biochemistry)

   **Ella Surposa**
   Mentor: Emmanuelle Despagnet-Ayoub (Chemistry)

6. Converting Carbon Dioxide into Fuel: Nickel Catalyst Oligomerization of Light Olefins to Heavy Olefins for Lubricant Base Stocks
   **Aaliyah Washington**
   Mentor: Emmanuelle Despagnet-Ayoub (Chemistry)

Session 2B: Aster Hall

Poster #

1. Binding mechanism of albumin to Bdellovibrio Bacteriovorus and its effect on predation of E. Coli prey
   **Ho Jung Chung**
   Mentor: Eileen Spain (Chemistry)

2. Unnatural Amino Acid Synthesis via Alkylation of α-tert-Butanesulfanamide Auxiliary-Bound Enolates
   **Claire Luethe**
   Mentor: Jeffrey Cannon (Chemistry)

3. Stereoselective reduction of carbonyls via photoredox catalysis
   **Aerin Mellott**
   Mentor: Jeffrey Cannon (Chemistry)
4 Substrate Scope of Indolizidine Synthesis

**Max Young**
Mentor: Jeffrey Cannon (Chemistry)

5 Photoredox catalysis for forming ketyl radicals

**Rachel Zhang**
Mentor: Jeffrey Cannon (Chemistry)

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**Session 2C: Golden Yarrow Hall**

Poster #

1 Electrochemical Supply for the Controlled Two-Electron Reduction of P450

**Clara Dearden**
Mentor: Michael Hill (Chemistry)

2 Selective oxidation with Ni/Fe layered double hydroxide catalyst

**Griffin Eden**
Mentor: Michael Hill (Chemistry)

4 Modeling Electron Flow from Cytochrome c to the copper A Domain of Cytochrome c Oxidase

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

5 Maintaining Cell Viability during the Electromechanical Reshaping of Cartilage

**Jack Leonard**
Mentor: Michael Hill (Chemistry)

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**Session 2D: Yucca Hall**

Poster #

1 Implementing a Mobile Dental Clinic to Address the Oral Health Needs of San Gabriel Valley Residents

**Sherin Aboobucker Sidiq**
Mentor: Jessica Dirkes (Public Health)

2 Assessing the Impacts of the COVID-19 Pandemic on Cancer Screening

**Matthew De Koch**
Mentor: Jessica Dirkes (Public Health)

3 Understanding the Role of Shared Governance at Community College Campuses

**Emily Kapins**
Mentor: Jessica Dirkes (Public Health)

4 SCANPH: Addressing the Housing Affordability Crisis from Policy to Development.

**Emilio Pardi**
Mentor: Martha Matsuoka (Urban & Environmental Policy)
5 Maximizing Patient Experience at LA Community Health Clinic Through Education, Outreach and Communication
Shanna Yeh
Mentor: Jessica Dirkes (Public Health)

6 Tenant Organizing in LA: The Fight for Housing Justice During and After the Pandemic
Jenn Zaratan
Mentor: Martha Matsuoka (Urban & Environmental Policy)

Session 2E: Bird of Paradise Hall
Poster #

1 Measuring B-Cell Responses against Corynebacterium Pseudotuberculosis Antigens
Alejandra Herrera
Mentor: Roberta Pollock (Biology) & Karen Molinder (Biology)

2 The Blood Suckers of the Sea: Investigations on the Branchellion leech from Southern California and its Microbial Community
Anahy Lizarraga
Mentor: Shana Goffredi (Biology)

3 Helper T cell response to Vaccination with Corynebacterium pseudotuberculosis Antigens
Brian Park
Mentor: Roberta Pollock (Biology) & Karen Molinder (Biology)

4 Communicating Science at Cabrillo Marine Aquarium through Biological Illustration and Exhibit Design
Adriana Pera
Mentor: Shana Goffredi (Biology)

5 Cloning of tba-1 Suppressor Mutation in C. elegans
Noah Rakestraw
Mentor: Renee Baran (Biology)

6 How tank water pH affects phosphorus uptake and the microbiome in epiphytic tank bromeliads
Mira Ranganath
Mentor: Gretchen North (Biology)

7 Leaf heat and drought tolerance of C3, CAM, and C3-CAM epiphytic bromeliads occupying distinct elevations of the tropical forest canopy
Joseph Shiina
Mentor: Gretchen North (Biology)
Talks, Session Three (2:45-3:45 PM)

Session 3A: Jacaranda Room
Moderator: Ryan Preston-Roedder

2:45  Political Language Games
      Liz Frissell
      Mentor: Robert Sanchez (Philosophy)

3:00  Learning from Fiction: Knowledge and Understanding
      Ava Lubetkin
      Mentor: Clair Morrissey (Philosophy)

3:15  The Importance of the Body to Misogyny: Objections to Kate Manne’s Down Girl
      Odelia Raz Zuckerman
      Mentor: Clair Morrissey (Philosophy)

3:30  The Path From Delusion to Moral Maturity in the Philosophy of James Baldwin
      Patrick Walsh
      Mentor: Ryan Preston-Roedder (Philosophy)

Session 3B: Oak Room
Moderator: Jeffrey Cannon

2:45  Combined Photoredox and Titanium Catalysis at carbonyl groups
      Lucien Delgutte
      Mentor: Jeffrey Cannon (Chemistry)

3:00  Synthesis of Indolizidines from L-Pyroglutamic acid using the Ireland-Claisen rearrangement and Ring-closing Metathesis
      Clarissa Kiyomura
      Mentor: Jeffrey Cannon (Chemistry)

3:15  Visible Light Photoredox Catalyzed Functionalization of Alkenes with 1,3-Dicarbonyls
      Kian Shamskhou
      Mentor: Jeffrey Cannon (Chemistry)

Session 3C: Olive Room
Moderator: Mariška Bolyanatz Brown

2:45  Effects of Age on Chilean Voice Quality
      Jackson Eddy
      Mentor: Mariška Bolyanatz Brown (Spanish & French Studies)

3:00  Effects of Gender on Voice Quality in Chilean Spanish
      Ethan Ferrall
      Mentor: Mariška Bolyanatz Brown (Spanish & French Studies)

3:15  “Queering le strade”: An Analysis of Visual Framing Tactics in Italian Pride Parades in Bologna & Rome
      Oli Vorster
      Mentor: Phillip Ayoub (Diplomacy & World Affairs)
3:30 Lobbying American Foreign Policy- The Caesar Sanctions  
Mira Tarabeine  
Mentor: Mary Christianakis (Critical Theory & Social Justice)

Session 3D: Sycamore Room  
Moderator: Martha Matsuoka

2:45 Combatting Global White Supremacist Terror Through Advocacy  
Leela Cullity Younger  
Mentor: Mary Christianakis (Critical Theory & Social Justice)

3:00 The Importance of a Digital Presence for Non-Profit Organizations: Esperanza Immigrant Rights Project as a Case Study  
Femke Teunissen  
Mentor: Mary Christianakis (Critical Theory & Social Justice)

3:15 Affordable Housing Development in Southern California  
Anna Sasser  
Mentor: Martha Matsuoka (Urban & Environmental Policy)

3:30 Making Housing and Community Happen!  
John Gayden  
Mentor: Martha Matsuoka (Urban & Environmental Policy)

Session 3E: Manzanita Room  
Moderator: Amber Stubler

2:45 Understanding the Effects of Ocean Acidification on Gastropods Through the Cosman Shell Collection  
McClaran Shirley  
Mentor: Amber Stubler (Biology)

3:00 From museum to medicine — extracting DNA from museum specimens of fish hunting cone-snails  
Hyun Young Gill  
Mentor: Joseph Schulz (Biology)

3:15 Isolation of Adult Zebrafish Spinal Neurons in Culture  
Danielle Shores  
Mentor: Joseph Schulz (Biology)

3:30 Evolutionary divergence in Yellow Grosbeaks in the forests of Mexico  
Maeve Secor  
Mentor: John McCormack (Biology)
Session 3F: Cottonwood Room
Moderator: Malek Moazzam-Doulat

2:45  The Weight of the Pandemic: A Comprehensive Analysis of Fat Activist TikTokers in the U.S.
Mary Ambriz
Mentor: Caroline Heldman (Critical Theory & Social Justice)

3:00  A Theoretical Examination of American Necropolitics: Understanding the School to Prison Pipeline
Ishaani N. Gokli
Mentor: Malek Moazzam-Doulat (Critical Theory & Social Justice)

3:15  Gentefication: Using Zapatista Frameworks to Understand the Before + Beyond...?
Lis Jimenez
Mentor: Caroline Heldman (Critical Theory & Social Justice)

3:30  Gender as an Expanse; Ballroom at its Horizon
Nina Moore
Mentor: Caroline Heldman (Critical Theory & Social Justice)
Talks, Session Four (3:00-4:00 PM)

Session 4A: Jacaranda Room
Moderator: Marcella Raney

4:00 COVID-19 Induced Changes in Physical Activity at Public Parks in Los Angeles County
Brenna Knapp
Mentor: Marcella Raney (Kinesiology)

4:15 Effects Of COVID-19 On Child Play
Cayleigh Lekven
Mentor: Mary Christianakis (Critical Theory & Social Justice)

4:30 Coalitions, Community, and Covid-19: A Case Study of #PoliceFreeLAUSD
Nathan Tam
Mentor: Martha Matsuoka (Urban & Environmental Policy)

4:45 COVID's Exposure of Already Pressing Faults in Community Outreach
Madeline Aubry
Mentor: Martha Matsuoka (Urban & Environmental Policy)

Session 4B: Oak Room
Moderator: Jorgen Harris

4:00 Women's Work and Low Pay: Testing the Devaluation Hypothesis
Radha Arora
Mentor: Jorgen Harris (Economics)

4:15 Do Differences in State Earned Income Tax Credit Policy Effect Childhood Outcomes
William Covino
Mentor: Jorgen Harris (Economics)

4:30 Who is biased: you or the algorithm? Taking a closer look at Tiktok, the new viral sensation
Shirying Tay
Mentor: Jesse Mora (Economics)

4:45 Investigating the Trend towards German Stability Culture: A Narrative Analysis of Post World War II Monetary Policy
Luca Van der Meer
Mentor: Andrew Jalil (Economics)
Session 4C: Olive Room
Moderator: Julie Prebel

4:00 Do It for the Culture: Black Cultural Agency in Social Media
Britney Aboagye
Mentor: Benjamin Weiss (Sociology)

4:15 Black Indigeneity: Redefining the Plantation and the Plot as a Site of Creation in the United States
Anjolie Charlot
Mentor: Kenjus Watson (Education)

4:30 Narrative Storytelling to Promote Advocacy: Highlighting Women from Ethnically Minoritized Communities
Ezgi Erin Koc
Mentor: Mary Christianakis (Critical Theory & Social Justice)

4:45 The Abjection of Fatness Through Social Media: “Body Positivity” and the Contemporary Maintenance of the Racialized, Female Body
Berret Yuffee
Mentor: Julie Prebel (American Studies)

Session 4D: Sycamore Room
Moderator: Daniel Snowden-Ifft

4:00 Nafcillin-Mediated Sensitization of Methicillin-Resistant *Staphylococcus aureus*
Ryan Hino
Mentor: Cheryl Okumura (Biology)

4:15 Cause of inflammasome activation during Group A Streptococcus (GAS) infection in THP-1 macrophages
Kevin Lord
Mentor: Cheryl Okumura (Biology)

4:30 Development of a GEM based muon detector
Sebastian Lechner
Mentor: Daniel Snowden-Ifft (Physics) & Jean-Luc Gauvreau (Physics)

4:45 Solar Survey - Measuring Existing Panel Capacity for SCE Substations Given Demand and Load Data
Michael Straus
Mentor: Daniel Snowden-Ifft (Physics)
Session 4E: Manzanita Room
Moderator: Sharon Cech

4:00  Urban Agriculture Summer Internship: Alma Backyard Farms
Josh Beissinger
Mentor: Sharon Cech (Urban & Environmental Policy Institute)

4:15  Urban Agriculture Summer Internship: Community Services Unlimited
Mandi Nguyen
Mentor: Sharon Cech (Urban & Environmental Policy Institute)

4:30  Urban Agriculture Summer Internship: Uncommon Good
Isabelle Russell
Mentor: Sharon Cech (Urban & Environmental Policy Institute)

4:45  Urban Agriculture Summer Internship: The Urban Homestead
Julia Hansen
Mentor: Sharon Cech (Urban & Environmental Policy Institute)

Session 4F: Cottonwood Room
Moderator: Stephen Klemm

4:00  Techniques of Exposure: A Developing Ontology of Acting
Cassie Dutton
Mentor: Damian Stocking (Comparative Studies in Literature & Culture)

Sophie Engle
Mentor: Stephen Klemm (Comparative Studies in Literature & Culture)

4:30  From The Furies to Modern Advocates: Reading The Oresteia as a Tool to Condemn Violence Against Women and Call for Criminal Justice Reform
River Lisius
Mentor: Ross Lerner (English)

4:45  From Oppression to Depression: How Do We Deal With Pain?
Bia Pinho
Mentor: Stephen Klemm (Comparative Studies in Literature & Culture)
## Presentations in Alphabetical Order by Student Last Name

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<th>Session Info</th>
<th>Place of Presentation</th>
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## Presentations in Alphabetical Order by Student Last Name

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Student Presenters

Britney Aboagye ‘22
Do It for the Culture: Black Cultural Agency in Social Media
Talk 4C, 4:00 PM
Mentor: Benjamin Weiss
Major: Sociology
Funding: The Andrew W. Mellon Foundation

Sherin Aboobucker Sidiq ‘22
Implementing a Mobile Dental Clinic to Address the Oral Health Needs of San Gabriel Valley Residents
Poster 2D - 1, 1:30-2:30 PM
Mentor: Jessica Dirkes
Major: Biochemistry
Funding: UEP & UEPI Summer Internship - Public Health Program

Mary Ambriz ‘22
The Weight of the Pandemic: A Comprehensive Analysis of Fat Activist TikTokers in the U.S.
Talk 3F, 2:45 PM
Mentor: Caroline Heldman
Major: Critical Theory & Social Justice
Funding: Undergraduate Research Center Summer Research Fellowship

Wren Andres ‘24
Freeway Construction and Human Displacement
Talk 1A, 9:30 AM
Mentor: Amy Lyford
Major: Undeclared
Funding: The Andrew W. Mellon Foundation

Radha Arora ‘23
Women’s Work and Low Pay: Testing the Devaluation Hypothesis
Talk 4B, 4:00 PM
Mentor: Jorgen Harris
Major: Economics
Funding: Ford Research Mentor's Endowment

Ishan Ashford ‘24
Gas from the Ground
Poster 1A - 1, 10:45-11:45 AM
Mentor: Christopher Oze
Major: Undeclared
Funding: Sherman Fairchild Foundation Fellowship

Madeline Aubry ‘23
COVID’s Exposure of Already Pressing Faults in Community Outreach
Talk 4A, 4:45 PM
Mentor: Martha Matsouka
Major: Urban & Environmental Policy
Funding: UEP & UEPI Summer Internship - Affordable Housing Program

Layal Bata ‘21
Modeling Second-Order Theory of Mind through Computational Analogy
Poster 1D - 1, 10:45-11:45 AM
Mentor: Irina Rabkina
Major: Cognitive Science, Computer Science
Funding: Gift from the Jones-Zeller family

Josh Beissinger ‘23
Urban Agriculture Summer Internship: Alma Backyard Farms
Talk 4E, 4:00 PM
Mentor: Sharon Cech
Major: Urban & Environmental Policy
Funding: UEP & UEPI Summer Internship - Urban Agriculture Program
<table>
<thead>
<tr>
<th>Student Presenters</th>
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<tr>
<td><strong>Chester Cahill ’24</strong></td>
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<tr>
<td>Carbon Nanotubes Covalently Functionalized By Organometallic Complexes For Redox Flow Batteries Poster 2A - 1, 1:30-2:30 PM</td>
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<tr>
<td>Mentor: Emmanuelle Despagnet-Ayoub Major: Chemistry Funding: Sherman Fairchild Foundation Fellowship</td>
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<td><strong>Anjolie Charlot ’22</strong></td>
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<tr>
<td>Black Indigeneity: Redefining the Plantation and the Plot as a Site of Creation in the United States Talk 4C, 4:15 PM</td>
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<td><strong>Ling Chen ’24</strong></td>
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<tr>
<td>Particle Tracking in Turbulent Rayleigh-Bénard Systems Poster 2A - 2, 1:30-2:30 PM</td>
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</tbody>
</table>
Student Presenters

William Covino ‘22
Do Differences in State Earned Income Tax Credit Policy Effect Childhood Outcomes?
Talk 4B, 4:15 PM

Mentor: Jorgen Harris
Major: Economics
Funding: Undergraduate Research Center Summer Research Fellowship

Leela Cullity Younger ‘24
Combating Global White Supremacist Terror Through Advocacy
Talk 3D, 2:45 PM

Mentor: Mary Christianakis
Major: Diplomacy & World Affairs
Funding: UEP & UEPI Summer Internship - Immigration Rights & Social Justice Program

Edin Custo ‘23
Carbon nanotube-iron complexes as electrolytes for flow batteries
Talk 2F, 12:30 PM

Mentor: Emmanuelle Despagnet-Ayoub
Major: Biochemistry
Funding: Mark Paulsen ’10 Summer Fellowship in the Chemical Sciences

Molly Davis ‘21
Oligomerization of Light Olefins to Heavy Olefins using a Nickel Catalyst on Carbon Nanotubes
Talk 2F, 1:00 PM

Mentor: Emmanuelle Despagnet-Ayoub
Major: Chemistry
Funding: Miller-Van Gerpen Endowed Summer Research Fellowship

Matthew De Koch ‘23
Assessing the Impacts of the COVID-19 Pandemic on Cancer Screening
Poster 2D - 2, 1:30-2:30 PM

Mentor: Jessica Dirkes
Major: Biochemistry
Funding: UEP & UEPI Summer Internship - Public Health Program

Clara Dearden ‘24
Electrochemical Supply for the Controlled Two-Electron Reduction of P450
Poster 2C - 1, 1:30-2:30 PM

Mentor: Michael Hill
Major: Undeclared
Funding: Professor George H. Cleland Endowed Undergraduate Summer Research Fellowship in Organic Chemistry

Lucien Delgutte ‘23
Combined Photoredox and Titanium Catalysis at carbonyl groups
Talk 3B, 2:45 PM

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: American Chemical Society Petroleum Research Fund

Aria Devlin ‘22
LA Stories: Intertwining the Built and the Natural Environments in Short Fiction
Talk 2D, 12:45 PM

Mentor: Sarah Ostendorf
Major: Urban & Environmental Policy
Funding: The Andrew W. Mellon Foundation

Dyani Dillard ‘22
Analogical Theory of Mind for Multi-Agent Interaction in the Stag-Hunt Game
Poster 1D - 3, 10:45-11:45 AM

Mentor: Irina Rabkina
Major: Computer Science
Funding: Gift from the Jones-Zeller family
Student Presenters

Madeline Doyle ‘22
Variations in Uplift of the Tehachapi Mountains, Ca from Stream Channel Analysis
Poster 1D - 4, 10:45-11:45 AM

Mentor: Ann Blythe
Major: Geology
Funding: Ford Research Mentor's Endowment

Griffin Eden ‘23
Selective oxidation with Ni/Fe layered double hydroxide catalyst
Poster 2C - 2, 1:30-2:30 PM

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

Ben Faith ‘22
The Impact of Holistic Structures on Heat Transport in Narrow Rayleigh-Bénard Convection Systems
Talk 1E, 9:30 AM

Mentor: Janet Scheel
Major: Physics
Funding: Norris Research Endowment

Cassie Dutton ‘23
Techniques of Exposure: A Developing Ontology of Acting
Talk 4F, 4:00 PM

Mentor: Damian Stocking
Major: Comparative Studies in Literature & Culture
Funding: The Andrew W. Mellon Foundation

Taylor Eng ‘23
Deprivation-Induced Hyperactivity: A Rat Model of Anorexia
Talk 2B, 12:30 PM

Mentors: Nancy Dess and Dale Chapman
Major: Psychology
Funding: VanderWeele Student Research Fund

Arelí Fernandez Orozco ‘24
Primary Cell Culture of Adult Zebrafish Neurons
Poster 1A - 2, 10:45-11:45 AM

Mentor: Joseph Schulz
Major: Biology, Music
Funding: Sherman Fairchild Foundation Fellowship

Jackson Eddy ‘22
Effects of Age on Chilean Voice Quality
Talk 3C, 2:45 PM

Mentor: Mariška Bolyanatz Brown
Major: Group Languages (Spanish and Linguistics)
Funding: Ford Research Mentor’s Endowment

Sophie Engle ‘22
Talk 4F, 4:15 PM

Mentor: Stephen Klemm
Major: Comparative Studies in Literature & Culture
Funding: Summer Undergraduate Research Fellowship

Ethan Ferrall ‘22
Effects of Gender on Voice Quality in Chilean Spanish
Talk 3C, 3:00 PM

Mentor: Mariška Bolyanatz Brown
Major: Group Language
Funding: Ford Research Mentor's Endowment
Student Presenters

Olivia Fishman ‘24
Early Critical Reception of the Southern California Light and Space Movement
Talk 1A, 10:00 AM
Mentor: Amy Lyford
Major: Art History
Funding: Undergraduate Research Center Summer Research Fellowship

Karen Garnica ‘24
Meeting the Demands of Immigration Based Non-Profits
Talk 1D, 9:45 AM
Mentor: Mary Christianakis
Major: Undeclared
Funding: UEP & UEPI Summer Internship: Immigration Rights & Social Justice Program

Ishaani N. Gokli ‘22
A Theoretical Examination of American Necropolitics: Understanding the School to Prison Pipeline
Talk 3F, 3:00 PM
Mentor: Malek Moazzam-Doulat
Major: Critical Theory & Social Justice
Funding: Summer Undergraduate Research Fellowship

Andrew Foster ‘22
Talk 2A, 12:30 PM
Mentor: Amy Holmes-Tagchungdarpa
Major: Religious Studies
Funding: Ford Research Mentor's Endowment

John Gayden ‘22
Making Housing and Community Happen!
Talk 3D, 3:30 PM
Mentor: Martha Matsuoka
Major: Computer Science
Funding: UEP & UEPI Summer Internship: Affordable Housing Program

Hunter Gries ‘23
Examining Power Structures and Pushing for a More Equitable Future in Alhambra and Monterey Park
Poster 1B - 1, 10:45-11:45 AM
Mentor: Martha Matsuoka
Major: Urban & Environmental Policy
Funding: UEP & UEPI Summer Internship: Affordable Housing Program

Liz Frissell ‘22
Political Language Games
Talk 3A, 2:45 PM
Mentor: Robert Sanchez
Major: Philosophy, Cognitive Science
Funding: Ford Research Mentor's Endowment

Hyun Young Gill ‘22
From museum to medicine — extracting DNA from museum specimens of fish hunting cone-snails
Talk 3E, 3:00 PM
Mentor: Joseph Schulz
Major: Biochemistry, Music
Funding: Ford Research Mentor's Endowment

Gus Grunau ‘22
Examining Connections Between Conservation and Eugenics in the Rhetoric of Theodore Roosevelt
Talk 1C, 9:45 AM
Mentor: Maryanne Horowitz
Major: History, Psychology
Funding: Summer Undergraduate Research Fellowship
<table>
<thead>
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<tr>
<td><strong>Elizabeth Hagopian ‘22</strong></td>
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<td>Stress reactivity in sensitive discussions among young adults</td>
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<td>Poster 1C - 1, 10:45-11:45 AM</td>
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<tr>
<td>Mentor: Patricia Cabral</td>
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<tr>
<td>Major: Psychology</td>
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<tr>
<td>Funding: Ford Research Mentor's Endowment</td>
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</tbody>
</table>

| **Alejandra Herrera ‘22** |
| Measuring B-Cell Responses against *Corynebacterium Pseudotuberculosis* Antigens |
| Poster 2E - 1, 1:30-2:30 PM |
| Mentors: Roberta Pollock and Karen Molinder |
| Major: Biology: Cell & Molecular Biology Concentration |
| Funding: Virginia Reid Moore '37 Summer Research Fellowship |

| **Tehreem Hai ‘23** |
| Star Clusters in Interacting Dwarf Galaxies |
| Talk 1E, 10:00 AM |
| Mentor: Sabrina Stierwalt |
| Major: Physics |
| Funding: Ford Research Mentor's Endowment |

| **Julia Hansen ‘22** |
| Urban Agriculture Summer Internship: The Urban Homestead |
| Talk 4E, 4:45 PM |
| Mentor: Sharon Cech |
| Major: Urban & Environmental Policy |
| Funding: UEP & UEPI Summer Internship: Urban Agriculture Program |

| **Caleigh Hoffmann ‘22** |
| Comparison of CO2 and Methane Gas Flux in Different Urban and Oil Development Areas of Los Angeles |
| Talk 2C, 12:30 PM |
| Mentor: Christopher Oze |
| Major: Geology |
| Funding: Ford Research Mentor's Endowment |

| **Ryan Hino ‘22** |
| Nafcillin-Mediated Sensitization of Methicillin-Resistant Staphylococcus aureus |
| Talk 4D, 4:00 PM |
| Mentor: Cheryl Okumura |
| Major: Biochemistry |
| Funding: The Fletcher Jones Foundation |

| **Rowan Hoffmann ‘22** |
| Protesting and Polarization: How Media Has Influenced Public Perception of Protests in The United States |
| Talk 1C, 10:00 AM |
| Mentor: Jane Hong |
| Major: History, Media Arts and Culture |
| Funding: Ray A. Billington Endowment |

| **Wesley Hsiao ‘21** |
| Probing Cytochrome p450 biocatalysis via anaerobic redox titrations |
| Poster 1E - 2, 10:45-11:45 AM |
| Mentor: Andrew Udit |
| Major: Chemistry |
| Funding: American Heart Association: Institutional Research Enhancement Award (AIREA) |

| **Michelle Huang ‘23** |
| Reshaping Cornea Using Electrochemistry |
| Talk 1B, 9:30 AM |
| Mentor: Michael Hill |
| Major: Chemistry |
| Funding: Christine Chui and Robert T. K. Chui Summer Research Fellow |
Student Presenters

Sierra Hunter ‘21
Modeling Electron Flow from Cytochrome c to the copper A Domain of Cytochrome c Oxidase
Poster 2C - 4, 1:30-2:30 PM
Mentor: Michael Hill
Major: Chemistry
Funding: John Stauffer Summer Research in Chemistry/Biochemistry Endowment

Amanda Iglesias ‘24
Using Virus Nanoparticles to Develop an Alternative Antagonist to Heparin
Poster 2A - 3, 1:30-2:30 PM
Mentor: Andrew Udit
Major: Biology
Funding: Sherman Fairchild Foundation Fellowship

Gianna Innocenti ‘23
Anaerobic Titrations of Heme Protein/Surfactant Systems
Poster 1E - 5, 10:45-11:45 AM
Mentor: Andrew Udit
Major: Biology
Funding: American Heart Association: Institutional Research Enhancement Award (AIREA)

Rachel Iskanian ‘24
Life’s a Leech: The Microbial Community Inside of the Southern Californian Marine Leech Pterobdella abditovesculata
Poster 1A - 3, 10:45-11:45 AM
Mentor: Shana Goffredi
Major: Biology
Funding: Sherman Fairchild Foundation Fellowship

Pilli Jaquez ‘24
Meeting the Demands of Immigration Based Non-Profits
Talk 1D, 9:30 AM
Mentor: Mary Christianakis
Major: Sociology
Funding: UEP & UEPI Summer Internship: Immigration Rights & Social Justice Program

Emmaline Jeansson ‘22
Gen-Z’s Online Political Choices in the Age of the Echo-Chamber
Poster 1C - 2, 10:45-11:45 AM
Mentor: Aleksandra Sherman
Major: Cognitive Science, Comparative Studies in Language & Culture
Funding: Ford Research Mentor’s Endowment

Lis Jimenez ‘22
Gentefication: Using Zapatista Frameworks to Understand the Before + Beyond...?
Talk 3F, 3:15 PM
Mentor: Caroline Heldman
Major: Critical Theory & Social Justice
Funding: Walter B. Gerken Summer Research Fellowship

Emily Kapins ‘22
Understanding the Role of Shared Governance at Community College Campuses
Poster 2D - 3, 1:30-2:30 PM
Mentor: Jessica Dirkes
Major: Psychology
Funding: UEP & UEPI Summer Internship - Public Health Program

Elena Kervitsky ‘22
Challenging Divine Authority - Gilgamesh’s Rejection of Ishtar and Sacred Marriage
Talk 2A, 12:45 PM
Mentor: Amy Holmes-Tagchungdarpa
Major: Religious Studies
Funding: Ford Research Mentor’s Endowment
<table>
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<tr>
<td><strong>Eliza Kirk ‘24</strong></td>
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<tr>
<td>Humanizing Healthcare: Studying the Implementation of the PPE Portrait Project at LAC+USC Medical Center</td>
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<td>Talk 1A, 10:15 AM</td>
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<td>Mentor: Mary Beth Heffernan</td>
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<tr>
<td>Major: Philosophy</td>
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<td>Funding: The Andrew W. Mellon Foundation</td>
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<td><strong>Brenna Knapp ‘22</strong></td>
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<td>COVID-19 Induced Changes in Physical Activity at Public Parks in Los Angeles County</td>
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<td>Talk 4A, 4:00 PM</td>
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<td>Mentor: Marcella Raney</td>
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<tr>
<td>Major: Kinesiology</td>
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<td>Funding: Mary S. Caswell Fund for Summer Research</td>
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<td><strong>Clarissa Kiyomura ‘22</strong></td>
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<td>Synthesis of Indolizidines from L-Pyroglutamic acid using the Ireland-Claisen rearrangement and Ring-closing Metathesis</td>
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<td>Talk 3B, 3:00 PM</td>
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<td>Mentor: Jeffrey Cannon</td>
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<tr>
<td>Major: Biochemistry</td>
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<td>Funding: Chemistry/Biochemistry Summer Research Endowment</td>
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<td><strong>Ezgi Erin Koc ‘24</strong></td>
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<td>Narrative Storytelling to Promote Advocacy: Highlighting Women from Ethnically Minoritized Communities</td>
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<td>Talk 4C, 4:30 PM</td>
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<td>Mentor: Mary Christianakis</td>
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<tr>
<td>Major: Critical Theory &amp; Social Justice</td>
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<td>Funding: UEP &amp; UEPI Summer Internship: Immigration Rights &amp; Social Justice Program</td>
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<td><strong>Kel Kline ‘24</strong></td>
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<td>Environmental Ethics: A case study of monarch migration</td>
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<td>Poster 1A - 4, 10:45-11:45 AM</td>
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<td>Mentors: Gretchen North and Clair Morrissey</td>
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<td>Major: Undeclared</td>
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<tr>
<td>Funding: Sherman Fairchild Foundation Fellowship</td>
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<td><strong>Rachel Kolpa ‘22</strong></td>
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<td>Retrograde tracing reveals inputs to the ventral palladium in the rat brain</td>
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<td>Poster 1C - 3, 10:45-11:45 AM</td>
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<td>Mentor: Kevin Urstadt</td>
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<tr>
<td>Major: Cognitive Science</td>
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<td>Funding: Summer Undergraduate Research Fellowship</td>
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<td><strong>Sebastian Lechner ‘24</strong></td>
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<td>Development of a GEM based muon detector</td>
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<td>Talk 4D, 4:30 PM</td>
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<td>Mentors: Daniel Snowden-Ifft and Jean-Luc Gauvreau</td>
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<tr>
<td>Major: Physics</td>
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<td>Funding: Mary S. Caswell Fund for Summer Research</td>
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<td><strong>Zerlina Lai ‘24</strong></td>
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<tr>
<td>Understanding migration patterns in the Western Kingbird to assess impacts of climate change</td>
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<td>Poster 1A - 5, 10:45-11:45 AM</td>
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<tr>
<td>Mentor: John McCormack</td>
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<tr>
<td>Major: Computer Science</td>
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<tr>
<td>Funding: Sherman Fairchild Foundation Fellowship</td>
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<tr>
<td><strong>Cayleigh Lekven ‘22</strong></td>
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<tr>
<td>Effects Of COVID-19 On Child Play</td>
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<td>Talk 4A, 4:15 PM</td>
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<tr>
<td>Mentor: Mary Christianakis</td>
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<tr>
<td>Major: Critical Theory &amp; Social Justice</td>
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<td>Funding: Undergraduate Research Center Summer Research Fellowship</td>
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</table>
Student Presenters

Miaja Lemieux '22
Exploring Individual Differences in Bitter/Sweet and Salt Taste Perception Through Rat Studies
Poster 1C - 4, 10:45-11:45 AM
Mentor: Nancy Dess
Major: Psychology
Funding: Ford Research Mentor's Endowment

Jack Leonard '22
Maintaining Cell Viability during the Electromechanical Reshaping of Cartilage
Poster 2C - 5, 1:30-2:30 PM
Mentor: Michael Hill
Major: Chemistry
Funding: Mary S. Caswell Fund for Summer Research

Zhuoheng Li '22
Identities and Mobilization in 1911 Chinese Revolution: Sichuan as an example
Talk 1C, 10:15 AM
Mentor: Alexander F. Day
Major: East Asian Studies, Diplomacy & World Affairs
Funding: Mary S. Caswell Fund for Summer Research

River Lisius '22
From The Furies to Modern Advocates: Reading The Oresteia as a Tool to Condemn Violence Against Women and Call for Criminal Justice Reform
Talk 4F, 4:30 PM
Mentor: Ross Lerner
Major: English, Politics
Funding: Arnston Memorial Essay Award

Kathy Liu '23
Recognizing Intent in the Stag Hunt Game through Analogical Theory of Mind
Poster 1D - 5, 10:45-11:45 AM
Mentor: Irina Rabkina
Major: Computer Science
Funding: Undergraduate Research Center Summer Research Fellowship

Anahy Lizarraga '23
The Blood Suckers of the Sea: Investigations on the Branchellion leech from Southern California and its Microbial Community
Poster 2E - 2, 1:30-2:30 PM
Mentor: Shana Goffredi
Major: Biology
Funding: National Science Foundation: Integrative and Organismal Systems Award

Kevin Lord '22
Cause of inflammasome activation during Group A Streptococcus (GAS) infection in THP-1 macrophages
Talk 4D, 4:15 PM
Mentor: Cheryl Okumura
Major: Biochemistry
Funding: Chemistry/Biochemistry Summer Research Endowment

Hanyun Lou '22
Developing borated iron complexes supported on carbon nanotubes for flow batteries
Talk 2F, 12:45 PM
Mentor: Emmanuelle Despagnet-Ayoub
Major: Chemistry, Cognitive Science
Funding: Gordon D. and Jacqueline A. Carpenter Chemistry Endowment

Ava Lubetkin '22
Learning from Fiction: Knowledge and Understanding
Talk 3A, 3:00 PM
Mentor: Clair Morrissey
Major: Philosophy, Cognitive Science
Funding: Arnston Memorial Essay Award
Student Presenters

Claire Luethe ‘22
Unnatural Amino Acid Synthesis via Alkylation of α-tert-Butanesulfinamid Auxiliary-Bound Enolates
Poster 2B - 2, 1:30-2:30 PM
Mentor: Jeffrey Cannon
Major: Chemistry
Funding: RUI: National Science Foundation

Luigi Maruani ‘22
Ethanol Studies Rat Lab
Poster 1C - 6, 10:45-11:45 AM
Mentor: Nancy Dess & Dale Chapman
Major: Psychology
Funding: VanderWeele Student Research Fund

Aerin Mellott ‘22
Stereoselective reduction of carbonyls via photoredox catalysis
Poster 2B - 3, 1:30-2:30 PM
Mentor: Jeffrey Cannon
Major: Kinesiology
Funding: American Chemical Society Petroleum Research Fund

Gisela Martinez ‘22
Derivatization Studies of 3-Allyl Substituted Isobenzofuranones
Poster 1E - 3, 10:45-11:45 AM
Mentor: Raul Navarro
Major: Biochemistry
Funding: Research Grant for Faculty at Principally Undergraduate Institutions from Organic Syntheses, Inc.

Mashly Martinez ‘24
Using Virus Nanoparticles to Develop an Alternative Antagonist to Heparin
Poster 2A - 4, 1:30-2:30 PM
Mentor: Andrew Udit
Major: Undeclared
Funding: Sherman Fairchild Foundation Fellowship

Tim McClure ‘22
Synthesis and Evaluation of Substituted Allylic Esters for The Decarboxylative Allylation of Isobenzofuranones
Poster 1E - 4, 10:45-11:45 AM
Mentor: Raul Navarro
Major: Chemistry
Funding: American Chemical Society: SURF

Amanda Medina Segura ‘22
Investigating the Healthcare Experiences of LBQT Latina Women
Talk 2B, 1:00 PM
Mentor: Patricia Cabral
Major: Psychology, Latino/a & Latin American Studies
Funding: Ford Research Mentor’s Endowment

Nina Moore ‘22
Gender as an Expanse; Ballroom at its Horizon
Talk 3F, 3:30 PM
Mentor: Caroline Heldman
Major: Critical Theory & Social Justice
Funding: Undergraduate Research Center Summer Research Fellowship

Johnna Munsen ‘22
Interruptions! Printmaking as Resistance
Talk 2D, 1:00 PM
Mentor: Linda Lyke
Major: Diplomacy & World Affairs
Funding: The Andrew W. Mellon Foundation
Amelia Muscott ‘22
Reconstructing glacial fluctuations and late Holocene hydroclimate variability in the western U.S. from alpine lake sediments
Talk 2C, 12:45 PM
Mentor: Darren Larsen
Major: Geology
Funding: The Kenneth T. & Eileen L. Norris Foundation

Anna Nefedenkova ‘22
Perchlorate Retention and Removal in Martian Regolith
Talk 2C, 1:00 PM
Mentor: Christopher Oze
Major: Geology, Computer Science
Funding: Ford Research Mentor's Endowment

Mandi Nguyen ‘22
Urban Agriculture Summer Internship: Community Services Unlimited
Talk 4E, 4:15 PM
Mentor: Sharon Cech
Major: Sociology
Funding: UEP & UEPI Summer Internship: Urban Agriculture Program

Alonso Olvera-Gonzalez ‘24
Does Food Insecurity Affect Emotionality?: A Comparative Psychology Approach with Occidental Hi-S and Lo-S Rats
Talk 2B, 12:45 PM
Mentor: Nancy Dess
Major: Psychology
Funding: VanderWeele Student Research Fund

Emilio Pardi ‘22
SCANPH: Addressing the Housing Affordability Crisis from Policy to Development.
Poster 2D - 4, 1:30-2:30 PM
Mentor: Martha Matsuoka
Major: Economics
Funding: UEP & UEPI Summer Internship - Affordable Housing Program

Brian Park ‘22
Helper T cell response to Vaccination with Corynebacterium pseudotuberculosis Antigens
Poster 2E - 3, 1:30-2:30 PM
Mentors: Roberta Pollock and Karen Molinder
Major: Biochemistry
Funding: Chemistry/Biochemistry Summer Research Endowment

Adriana Pera ‘21
Communicating Science at Cabrillo Marine Aquarium through Biological Illustration and Exhibit Design
Poster 2E - 4, 1:30-2:30 PM
Mentor: Shana Goffredi
Major: Art & Art History
Funding: National Science Foundation: Integrative and Organismal Systems Award

Alyssa Pfitzer Price ‘23
Urban Agriculture Summer Internship: Uncommon Good
Talk 2E, 12:30 PM
Mentor: Sharon Cech
Major: Biology - Marine Biology Concentration
Funding: UEP & UEPI Summer Internship: Urban Agriculture Program

Bia Pinho ‘23
From Oppression to Depression: How Do We Deal With Pain?
Talk 4F, 4:45 PM
Mentor: Stephen Klemm
Major: Comparative Studies in Literature & Culture
Funding: Mary S. Caswell Fund for Summer Research
Divya Prakash ‘23

Diachronic changes to journalistic orality: the (re)technologization of the word
Poster 1B - 2, 10:45-11:45 AM

Mentor: Jacob Mackey
Major: Comparative Studies in Language & Culture, Cognitive Science
Funding: The Andrew W. Mellon Foundation

Odelia Raz Zuckerman ‘22

The Importance of the Body to Misogyny: Objections to Kate Manne’s Down Girl
Talk 3A, 3:15 PM

Mentor: Clair Morrissey
Major: Philosophy, Politics
Funding: Center Summer Research Fellowship

Isabelle Russell ‘23

Urban Agriculture Summer Internship: Uncommon Good
Talk 4E, 4:30 PM

Mentor: Sharon Cech
Major: Urban & Environmental Policy, Spanish
Funding: Undergraduate Research Center Summer Research Fellowship

Noah Rakestraw ‘22

Cloning of tba-1 Suppressor Mutation in C. elegans
Poster 2E - 5, 1:30-2:30 PM

Mentor: Renee Baran
Major: Biochemistry
Funding: Undergraduate Research Center Summer Research Fellowship

Ashten Reese ‘22

Urban Agriculture Summer Internship: Community Services Unlimited
Talk 2E, 12:45 PM

Mentor: Sharon Cech
Major: Urban & Environmental Policy
Funding: UEP & UEPI Summer Internship: Urban Agriculture Program

Connor Saludares ‘21

Development of a Decarboxylative Allylic Alkylation of Isobenzofuranones: Synthesis and Evaluation of Backbone-Substituted Phthalides
Poster 1E - 6, 10:45-11:45 AM

Mentor: Raul Navarro
Major: Chemistry
Funding: Donald R. Deardorff Endowed Undergraduate Summer Research Fellowship for Chemistry

Mira Ranganath ‘23

How tank water pH affects phosphorus uptake and the microbiome in epiphytic tank bromeliads
Poster 2E - 6, 1:30-2:30 PM

Mentor: Gretchen North
Major: Biology
Funding: Ford Research Mentor’s Endowment

Julie Riley ‘22

Art & Activism: Documentary Filmmaking and Collective Art as a Tool for Migrant Detention Abolition
Talk 2D, 12:30 PM

Mentor: Broderick Fox
Major: Media Arts & Culture
Funding: The Andrew W. Mellon Foundation

Melina Sanchez ‘24

Understanding migration patterns in the Painted Bunting to assess impacts of climate change
Poster 1A - 6, 10:45-11:45 AM

Mentor: John McCormack
Major: Biology
Funding: Sherman Fairchild Foundation Fellowship
<table>
<thead>
<tr>
<th>Student Presenters</th>
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</table>
| Anna Sasser ’22 | Affordable Housing Development in Southern California.  
Talk 3D, 3:15 PM |
| Mentor: Martha Matsuoka  
Major: Urban & Environmental Policy  
Funding: UEP & UEPI Summer Internship: Affordable Housing Program |
| Maggie Saucedo ‘22 | The Divine Donald: Christian Nationalism, Spiritual Warfare Discourse, and Presidential Amorality in the Making of the Capitol Insurrection  
Talk 2A, 1:00 PM |
| Mentor: Amy Holmes-Tagchungdarpa  
Major: Religious Studies  
Funding: Undergraduate Research Center Summer Research Fellowship |
| Maeve Secor ‘22 | Evolutionary divergence in Yellow Grosbeaks in the forests of Mexico  
Talk 3E, 3:30 PM |
| Mentor: John McCormack  
Major: Biology  
Funding: Sarah H. Roberts ’68 and David H. Roberts ’67 Annual Research Fellowship in the Natural Sciences |
| Clara Sena-Gersh ‘22 | Meeting the Demands of Immigration Based Non-Profits  
Talk 1D, 10:00 AM |
| Mentor: Mary Christianakis  
Major: Latina/o & Latin American Studies, Spanish  
Funding: UEP & UEPI Summer Internship: Immigration Rights & Social Justice Program |
| Kian Shamskhou ‘22 | Visible Light Photoredox Catalyzed Functionalization of Alkenes with 1,3-Dicarboxyls  
Talk 3B, 3:15 PM |
| Mentor: Jeffrey Cannon  
Major: Biochemistry  
Funding: The Fletcher Jones Foundation |
| Joseph Shiina ‘22 | Leaf heat and drought tolerance of C3, CAM, and C3-CAM epiphytic bromeliads occupying distinct elevations of the tropical forest canopy  
Poster 2E - 7, 1:30-2:30 PM |
| Mentor: Gretchen North  
Major: Biology  
Funding: Norris Research Endowment |
| McClaran Shirley ‘22 | Understanding the Effects of Ocean Acidification on Gastropods Through the Cosman Shell Collection  
Talk 3E, 2:45 PM |
| Mentor: Amber Stubler  
Major: Biology  
Funding: The Kenneth T. & Eileen L. Norris Foundation |
| Danielle Shores ‘22 | Isolation of Adult Zebrafish Spinal Neurons in Culture  
Talk 3E, 3:15 PM |
| Mentor: Joseph Schulz  
Major: Biology - Cell & Molecular Biology Concentration  
Funding: Ford Research Mentor's Endowment |
| David Simpson-Heil ‘22 | Testing Cosmological Predictions with Dwarf Galaxy groups  
Poster 1D - 6, 10:45-11:45 AM |
| Mentor: Sabrina Stierwalt  
Major: Physics  
Funding: Astronomy & Astrophysics Research Grant from the National Science Foundation |
## Student Presenters

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Student Presenters

Luca Van der Meer '22
Investigating the Trend towards German Stability Culture: A Narrative Analysis of Post World War II Monetary Policy
Talk 4B, 4:45 PM
Mentor: Andrew Jalil
Major: Economics
Funding: Ford Research Mentor's Endowment

Benjamin Ventresca '22
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Mentor: Jason Wong
Major: Economics
Funding: Walter B. Gerken Summer Research Fellowship

Oli Vorster '22
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Talk 3C, 3:15 PM
Mentor: Phillip Ayoub
Major: Diplomacy & World Affairs
Funding: Undergraduate Research Center Summer Research Fellowship

Patrick Walsh '22
The Path From Delusion to Moral Maturity in the Philosophy of James Baldwin
Talk 3A, 3:30 PM
Mentor: Ryan Preston-Roedder
Major: Philosophy
Funding: Arnston Memorial Essay Award

Aaliyah Washington '24
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Poster 2A - 6, 1:30-2:30 PM
Mentor: Emmanuelle Despagnet-Ayoub
Major: Undeclared
Funding: Sherman Fairchild Foundation Fellowship

Irene Wickwire '23
Urban Agriculture Summer Internship: The Urban Homestead
Talk 2E, 1:00 PM
Mentor: Sharon Cech
Major: Urban & Environmental Policy
Funding: UEP & UEPI Summer Internship: Urban Agriculture Program

Camille Williams '23
Awe & Our Internal Clock: Exploring Experiences of Awe In an Immersive Environment
Poster 1C - 5, 10:45-11:45 AM
Mentor: Aleksandra Sherman
Major: Cognitive Science
Funding: Undergraduate Research Center Summer Research Fellowship

Thea Wilson '24
Meeting the Demands of Immigration Based Non-Profits
Talk 1D, 10:15 AM
Mentor: Mary Christianakis
Major: Undeclared
Funding: UEP & UEPI Summer Internship: Immigration Rights & Social Justice Program

Jeffrey Yang '23
The Dependence of Lyapunov Exponents on Rayleigh Number for Rayleigh-Bénard Convection
Talk 1E, 9:45 AM
Mentor: Janet Scheel
Major: Physics
Funding: George M. Schmiedeshoff Summer Research Fellowship in Physics
Olivia Yang ‘23
Looking for Black Holes in Dwarf Galaxies
Talk 1E, 10:15 AM

Mentor: Sabrina Stierwalt
Major: Physics
Funding: Astronomy & Astrophysics Research Grant from the National Science Foundation

Noah Yee Yick ‘22
Dialect Contact in Los Angeles: An Emerging Linguistic Safe Haven
Poster 1D - 7, 10:45-11:45 AM

Mentor: Mariška Bolyanatz Brown
Major: Diplomacy & World Affairs, Group Language
Funding: Undergraduate Research Center Summer Research Fellowship

Shanna Yeh ‘22
Maximizing Patient Experience at LA Community Health Clinic Through Education, Outreach and Communication
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Mentor: Jessica Dirkes
Major: Biology
Funding: UEP & UEPI Summer Internship - Public Health Program

Joanne Yi ‘22
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Talk 1B, 10:15 AM

Mentor: Eileen Spain
Major: Biology
Funding: Mary S. Caswell Fund for Summer Research

Max Young ‘22
Substrate Scope of Indolizidine Synthesis
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Mentor: Jeffrey Cannon
Major: Chemistry
Funding: RUI: National Science Foundation

Berret Yuffee ‘24
The Abjection of Fatness Through Social Media: “Body Positivity” and the Contemporary Maintenance of the Racialized, Female Body
Talk 4C, 4:45 PM

Mentor: Julie Prebel
Major: Undeclared
Funding: Undergraduate Research Center Summer Research Fellowship

Jenn Zaratan ‘22
Tenant Organizing in LA: The Fight for Housing Justice During and After the Pandemic
Poster 2D - 6, 1:30-2:30 PM

Mentor: Martha Matsuoka
Major: Cognitive Science
Funding: Undergraduate Research Center Summer Research Fellowship

Rachel Zhang ‘23
Photoredox catalysis for forming ketyl radicals
Poster 2B - 5, 1:30-2:30 PM

Mentor: Jeffrey Cannon
Major: Chemistry
Funding: Research Grant for Faculty at Principally Undergraduate Institutions from Organic Syntheses, Inc
Funding

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- Walter B. Gerken Fellowship in Public Policy
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- Prof. Dennis K. Mitchell
- National Institutes of Health
- National Science Foundation
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- Prof. Marcella A. Raney ’01
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- Erin J. Richey ’07
- Sarah H. Roberts ’68 and David H. Roberts ’67 Annual Research Fellowship in Natural Sciences Fund
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- Priscilla and Donald F. Smith ’55 Endowed Fund for Summer Undergraduate Research
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- Summer Faculty/Student Research Endowment
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- Michael J. Zlotoff ’05

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Celia Chen  Joseph Schulz
Susan Grayson  Damian Stocking
Daniel Pondella  Clair Morrissey (Ex officio)
Seva Rodnyansky

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Undergraduate Research Center Staff

Pacita Del Balso
URC Summer Office Assistant

Karla J. Hernández
URC Department Coordinator

Clair Morrissey
URC Director
In Memory of Andrea Hopmeyer, Professor of Psychology

Psychology Professor Andrea Hopmeyer, a longtime participant in undergraduate research, passed away on Nov. 20, 2020 after a valiant three-year battle against breast cancer. She was 53.

Andrea joined the Oxy faculty in 1996. A prolific scholar, she published more than two dozen articles and book chapters on the social and emotional development of children, adolescents, and emerging adults, focusing on such issues as loneliness, peer victimization, and popularity. She was proud of the number of articles she co-authored with her students, some of which were the product of her participation in the Summer Research Program.

One student who benefitted from Andrea’s mentorship was psychology major Alex Morse ’18, who came to Oxy from Phoenix. “I always feel like when we’re talking, especially about our research, that she’s preparing me for whichever angle I decide to go with and being very real with me,” Morse said in a 2018 interview. Her relationship with Andrea extended beyond teaching and research, she added. “She’s definitely my personal local expert on what I am doing with my life next. We talk about school and about life and about what’s coming next for me.”

Andrea’s courses on such subjects as Developmental Psychology and Psychological Methods were ranked highly in student evaluations. She regularly presented her work at conferences in the United States and Canada.

A native of Montreal, Andrea was a summa cum laude, Phi Beta Kappa graduate of Clark University. She earned her master's and doctorate in psychology at the University of Illinois at Urbana-Champaign.

She is survived by her daughter, Jennifer Gorman, her sisters, Joann and Miriam, and her parents.