Conference Committee

Bernie Day Foothill College
Sarah Harmon Cañada College
David Laderman College of San Mateo
Joyce Lee Skyline College
Mary Lim UC Berkeley
Bryan Martinez UC Berkeley
Eva Mo Modesto Junior College
Jennifer Saito Los Medanos College
Colin Schatz Las Positas College
Steve Schessler Cabrillo College
Letitia Scott-Curtis Cabrillo College
Christina Tinsley UC Berkeley
John Ulloa Skyline College

Acknowledgements

The Bay Honors Consortium thanks the Center for Educational Partnerships for supporting this opportunity for community college honors students. We also acknowledge the following people for their invaluable contributions. They rock.

Marsha Jaeger Assistant Vice Chancellor for Educational Partnerships, UCB
Beth Piatote Keynote Speaker, Associate Professor of Ethnic Studies, UCB
Michael Nakada Student Speaker, American River College Honors Graduate
Kathy Rodgers Emcee, American River College
Leilt Habte Transfer Workshop, CCTC/TAP Assistant Director, UCB
Johnny Leon Event Coordination, Center for Educational Partnerships, UCB
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Emily Berg Program Editing, Reedley College
Mehrdad Khosravi Moderator Coordinator, De Anza College
Ricoh Printing Program Printing, Las Positas College
Marylou Heslet
Katharine Harer
Candy Klaschus
Ballet Folklorico Reflejos de Mexico
OFFICE OF UNDERGRADUATE ADMISSIONS
CENTER FOR EDUCATIONAL PARTNERSHIPS

Dear Bay Honors Research Symposium Guests,

Welcome to the 11th Annual Bay Honors Research Symposium for community college honors students. We are pleased to host the symposium at UC Berkeley and to congratulate you on your achievements, original research and success in challenging Honors courses.

Today’s presentations give us an example of the great talent that exists among students at community colleges across California. You are the future researchers, scholars and leaders of our state, nation and world. With your experience in research and achievements in the honors program, we strongly encourage you to continue on the pathway of academic excellence and to apply to Berkeley and other top research universities.

Berkeley is strongly committed to admitting transfer students, who typically make up about one-third of our incoming class. Many are the first in their family to go to college, come from low-income families or have overcome educational barriers. Once enrolled at Berkeley, transfer students do very well, graduating with similar grade point averages and at similar rates as students who started Berkeley as freshmen. The wealth of life experiences and diverse perspectives that community college transfers bring to the campus contributes greatly to the quality of discourse in the classroom and to the rich and vibrant fabric of the UC Berkeley community.

Berkeley has a number of resources to assist you in preparing and applying for transfer. Our Community College Transfer Center (CCTC) provides assistance to students across the state and offers in-person drop-in advising to students in many Northern and Southern California community colleges. The Center also houses the very successful Transfer Alliance Project (TAP), which offers on-going assistance and academic enrichment opportunities to selected high achieving community college students who are the first in their family to go to college or who have faced significant educational barriers. For further information about CCTC or TAP, please email transfer@berkeley.edu or call (510) 643-7159. And once you are here at Berkeley, our Transfer Student Center, Re-entry Student Program and Student Parent Center offer a variety of programs and services that are designed to help students succeed.

Again, we are delighted to have this opportunity to celebrate your achievements and welcome you to Berkeley. Enjoy your day!

Amy Jarich
Assistant Vice Chancellor & Director
Undergraduate Admissions

Marsha Jaeger
Assistant Vice Chancellor
Center for Educational Partnerships
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Presentation Session Descriptions

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Schedule of Events

Opening Ceremony - Dwinelle 155 .......................... 9:30-10:00 a.m.

Dr. Kathy Rodgers, Emcee, American River College

Dr. Beth Piatote, Keynote Speaker, UC Berkeley Department of Ethnic Studies

Session I Presentations ................................. 10:15-11:15 a.m.

Session II Presentations ................................. 11:30-12:30 p.m.

Lunch ....................................................... 12:30-1:30 p.m.

Session III Presentations ............................... 1:30-2:30 p.m.

Closing Ceremony - Dwinelle 155 ....................... 2:45-3:45 p.m.

Performance by UC Berkeley’s Ballet Folklorico Reflejos de Mexico

Michael Nakada, Student Speaker
American River College & UC Berkeley Alumnus

Bay Honors Consortium Honors Faculty of the Year Award

The Katharine Award

The Heslet Scholar Award

Admissions Workshop - Dwinelle 155 ..................... 4:00-5:00 p.m.

Leilt Habte, Transfer Center/Transfer Alliance Program Assistant Director, UC Berkeley
All presenters and attendees are expected to arrive no later than 10:15 a.m. and stay for the entire session. Please refrain from entering the room once the session is in progress.
Elan Tulberg
MiraCosta College
Mentor: Thao Ha

**Tomboys and Girly Girls: Internalized Misogyny and the Construction of Devalued Femininity**
A quantitative analysis of media’s devaluation of feminine attributes that creates "horizontal hostility."

Flannery Fitch
Cabrillo College
Mentor: Michael Mangin

"Worst of All": Women in Battle During the Civil War
A survey of the forgotten women soldiers and spies during the Civil War.

Amy Nguyen
Mission College
Mentor: Jeff Cormier

**Masculinity: A Man’s Fear**
An examination of the concept of traditional masculinity and its effects on the daily lives of fifteen men.

Ashneel Pratap
College of San Mateo
Mentor: Peter Von-Bleichert

**The Complexities Surrounding Minimum Wage**
An analysis of the options of increasing the federal minimum wage or instituting an alternative living wage.

Michelle Huang
Skyline College
Mentor: John Ulloa

**Does Tax Amnesty Promote Indonesian Economic Growth?**
An examination of the Indonesian tax amnesty program implemented from 2016 to 2017.

Smeet Patel
Mission College
Mentors: Jeff Cormier & Joanna Sobala

**Conventionalizing An Experimental Economic Policy with Quantitative Easing**
Simplifying the Federal Reserve’s controversial monetary policy during the global financial crisis of 2007-2008.
Room 130

Nicole Beachboard
MiraCosta College
Mentor: Christopher Sleeper
Press, Propaganda, & Perversity
The Caustic Elections of 1800 and 2016
A comparison of the fragile political and social times of the 1800 and 2016 U.S. Presidential elections.

Isabelle Tapia
College of San Mateo
Mentor: David Laderman
The Manifestation of Reaganism in Romantic Comedy Films
Analyzing the perpetuation of Ronald Reagan’s ideals in 1980s romantic comedy films.

David Mattson
Cosumnes River College
Mentor: Georgine Hodgkinson
How Memes, Trolls, & the International Community Changed Our Country
Social Media & the 2016 Presidential Election
Analysis of user data from social media captured during the final days of the election to identify online trends and abnormalities in the electoral process.

Room 179

Antoneil Carter
College of San Mateo
Mentors: René Anderson & Sara Lawrence
Examining Intersectionality
Blackness, Womanhood, & the Fight for Agency
An analysis of the historic and contemporary status of black women in America.

Alina Zarate
Pasadena City College
Mentor: Shane Underwood
Universal Values of Tokenism
How Honor Kills, Harms, and Harasses Women
An examination of the universal code of honor that shapes power relationships between men and women and allows for “honor killings”, harassment, assault, and abuse.

Alex Connoy
El Camino College
Mentor: Agnes Davies
Finding Mr. Teacher: Scarcity of Male Teachers
The impact that the lack of males in early childhood education may have on the value of male instructors as role models.
Session I: 10:15 – 11:15 a.m.

Room 182

Harloveleen Hundal  
Modesto Junior College  
Mentor: Kerri Stephens  
**Power, Politics, and the "Glass Slipper"**  
*Women in Corporate America*  
An economic and political analysis of the shifting culture surrounding sexual discrimination.

Nicole Bernal  
Irvine Valley College  
Mentor: Andrew Grimalda  
**The Future of Intimate Partner Violence for Women in Peru**  
Examining the socio-economic and domestic violence factors that influence intimate partner violence (IPV) rates in Peru.

Yvette Sanders  
El Camino College  
Mentor: Kassia Wosick  
**Reframing "Yes": The Evolution of Consent**  
Discussing the limitations of "Affirmative Consent" prevention programs targeting sexual violence.

Room 183

Tasneem Sadok  
De Anza College  
Mentor: David Gray  
**The Missing Link: How Glial Astrocytes Can Explain Neurodegenerative Disease**  
A study of glial astrocytes as indicators, preventatives, and possible restoratives of neurodegenerative disease.

Sandra Sandria  
MiraCosta College  
Mentor: Kent McKorkle  
**Schizophrenic Breakdown: The Critical Role of Kynurenic Acid in Cognitive Dysfunction**  
Understanding the role of kynurenic acid as contributing to schizophrenia can lead to more effective treatments.

Claudia David  
El Camino College  
Mentor: Teresa Palos  
**Harmful Effects of Alcohol**  
*How Chronic Consumption Causes Corneal Tissue Damage*  
An analysis of alcoholism induced oxidative stress in the eye as assessed by the increased presence of Aldehyde Dehydrogenase.
Room 187

**Mariam Zahran**  
*Saddleback College*  
*Mentor: Margot Lovett*

**Egypt for Egyptians: A 19th Century Transformation**

Analysis of Egypt’s 1882 Urabi revolt that caused a social transformation that consolidated all social classes.

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**Michael Rosenkrantz**  
*Saddleback College*  
*Mentor: Margot Lovett*

**Three Days in August**  
*The Reshaping of Iranian Democracy*

An examination of the covert methods the CIA used during the coup of the democratically elected Mohammed Mossadegh.

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**Walter Castillo**  
*Saddleback College*  
*Mentor: Bill Billingsley*

**A Struggle for Themselves: Apartheid, Internationalism, and Independence in Southern Africa**

Examining proxy wars in southern Africa during the Cold War.

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Room 205

**Marissa Anderson  
Audrey Lim  
Mohammad Qahoush  
Samyar Seifollahi**  
*Irvine Valley College*  
*Mentors: Kurt Meyer & Jodi Titus*

**Trigger Warning! Restricting Speech on Campus May be Hazardous**

An investigation of free speech rights to inform best practices for colleges, faculty, and especially students, to safeguard intellectual merit, free speech, and independent thought.

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**Chelsea Brown  
Luis Mendez**  
*Cañada College*  
*Mentors: Patty Hall & Paul Roscelli*

**A Clear and Present Danger: Taking the Temperature of the First Amendment on College Campuses**

An examination of the state of free speech on campuses across the country, in light of polarizing events such as Milo Yiannopoulos’ speech at UC Berkeley.

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**Jacob Neel**  
*Los Medanos College*  
*Mentors: Albert Ponce & Jennifer Saito*

**Locke-step**  
*John Locke’s Influence on the Alt-Right*

Tracing Alt-Right ideologies towards race to the work of political theorist John Locke.
<table>
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<tr>
<th>Room 209</th>
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<tbody>
<tr>
<td><strong>Khalid Yasseen</strong></td>
<td><strong>Antibacterial Activity of Cinnamon Oil Against <em>Enterococcus faecalis</em></strong></td>
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<tr>
<td><em>Saddleback College</em></td>
<td>Finding that cinnamon oil increases the inhibition of <em>E. faecalis</em> growth when</td>
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<tr>
<td><em>Mentor: Marcelo Pires</em></td>
<td>combined with vancomycin.</td>
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<tr>
<td><strong>Khadijah Khokhar</strong></td>
<td><strong>Total DNA Extraction from Conjugated <em>E. coli</em> Bacteria</strong></td>
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<tr>
<td><em>De Anza College</em></td>
<td>Discussing the optimization to extract both transferrable plasmid DNA and</td>
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<td>genomic DNA of <em>E.coli</em> bacteria to maximize total DNA yield and quality.</td>
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<td><strong>Lara Khosrovian</strong></td>
<td><strong>A Perfect Bar of Soap for Grandpa</strong></td>
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<tr>
<td><strong>Maria Vardapetyan</strong></td>
<td>The testing of natural and synthetic tannins to formulate soaps beneficial for</td>
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<td><em>Glendale Community College</em></td>
<td>removal of 2-trans-nonenal.</td>
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<tr>
<td><strong>Aryanna Dashtgerd</strong></td>
<td><strong>The Effect of Inflammatory Propaganda on Women’s Reproductive Health Rights</strong></td>
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<tr>
<td><em>Irvine Valley College</em></td>
<td>An examination of how sensationalistic and emotional appeals have contributed to the</td>
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<td>recent rise of anti-abortionism.</td>
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<tr>
<td><strong>Chinwe Idika</strong></td>
<td><strong>Integrative Medicine as a Remedy for Eurocentrism in Public Health Policy</strong></td>
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<tr>
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<td>An analysis of the implications of eurocentrism on the development of progressive</td>
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<td>international healthcare policies.</td>
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<tr>
<td><strong>Heather Collins</strong></td>
<td><strong>Graveyards and Ghosts: Death of the Coral Reefs</strong></td>
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<tr>
<td><em>Modesto Junior College</em></td>
<td>An interdisciplinary examination of the socio-economic repercussions of the world’s</td>
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<td><em>Mentor: Noah Hughes</em></td>
<td>diminishing coral reefs.</td>
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Session II Presentations  11:30-12:30 p.m.

All presenters and attendees are expected to arrive no later than 11:30 a.m. and stay for the entire session. Please refrain from entering the room once the session is in progress.
<table>
<thead>
<tr>
<th>Room 105</th>
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</table>
| **John Villanueva**  
Los Medanos College  
Mentor: Jennifer Saito |
| **The Free Basics Initiative**  
The First Steps Toward Digital Colonialism |
| An in-depth analysis of this initiative's effects on censorship and market dominance in the developing world. |
| **Genevieve Kjesbu**  
College of the Redwoods  
Mentor: Maria Friedman |
| **Monopoly: Biopiracy Edition** |
| Detailing an interactive game that introduces the concept of the environmental justice issue of biopiracy. |
| **Juliana Duperron**  
Daisy Rosalez  
Shiva Upadhye  
Leticia Matsubara de Morais  
Foothill College  
Mentor: Konstantin Kalaitzidis |
| **Headed towards Doom**  
Using AI to Visualize Anthropogenic Destruction |
| Visualizing the statistical computation of the fate of humanity and identifying variables that can reverse the path to destruction. |

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| **Meleana Chun-Moy**  
College of San Mateo  
Mentor: Tatiana Irwin |
| **Victoria Woodhull: Presidential Candidate in 1872** |
| An analysis of the first female presidential candidate and her progressive tactics towards equal rights. |
| **Sabrina Frey**  
Saddleback College  
Mentor: Gina Shaffer |
| **Effects of Mao-Era Legislation on Later Feminism in China** |
| An exploration of Chinese Communist Party's legislation, detailing its effects on women's rights in China. |
| **Xinyi Hu**  
Zijie Zhao  
Foothill College  
Mentor: Scott Lankford |
<p>| <strong>Chinese Youth Climate Activists on the Move</strong> |
| Detailing case studies of Chinese youth climate activists and their approaches to fighting within the political environment. |</p>
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<tr>
<td>Moritz Wodtke</td>
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<td>Mentors: Nicholas Rowell &amp; Steve Schessler</td>
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<td>Spencer Merritt</td>
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<td>Cabrillo College</td>
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<td>Mentor: Nicholas Rowell</td>
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<td>William Scott-Curtis</td>
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<td>Yaritza Hernandez</td>
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<td>Mentors: Tracy Carrera &amp; Joseph Lin</td>
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<tr>
<td>Nicholas Denstaedt</td>
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<tr>
<td>Mt. San Antonio College</td>
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<tr>
<td>Mentor: Edgar Muñiz</td>
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<td>Elona Dahi</td>
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<tr>
<td>Mt. San Antonio College</td>
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<td>Mentors: Edgar Muñiz</td>
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Room 182

Pansy Lu
Foothill College
Mentor: Paula Vaughan

Exploring Homosexuality through Mythology
An examination of how the portrayal of homosexuality in mythology reflects the cultural beliefs of Ancient Greece and China.

Chris Chamberlain
Modesto Junior College
Mentor: Chad Redwing

The Seven Stars of Revelation: A Mystery Unveiled
A comparative analysis linking sacred text, shrines, and astronomy.

Muhammad Shahbaz
American River College
Mentors: William Wrightson & William Zangeneh-Lester

Parallel Histories
Comparing the Islamic and European Renaissance

Room 183

Pargoal Arab
Crafton Hills College
Mentor: T.L. Brink

Attitudes about Climate Change
The Influence of Personality?
Examining a correlation between personality traits and an individual’s concern for climate change.

Daniel Jacobson
Foothill College
Mentor: Robert Cormia

Barriers to Decarbonization
Public Perception vs. State Energy Policy
Discussing the extent to which public attitudes toward energy technology drives state policy differences.

Alejandro Padilla
Sacramento City College
Mentor: Daniel Kirsch

An Environmentally Unfriendly Endeavor: The Bush Administration’s Politicization of Environmental Policy
An analysis of the Environmental Protection Agency’s implementation of the NOx trading program and its possible contemporary significance.
<table>
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<th>Room 187</th>
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| **Peihan Huo**  
**Adarsh Parthasarathy**  
*De Anza College*  
Mentor: Monika Thomas |
| **The Silent Spring: California’s Undocumented Farmworkers and Their Unspoken American Dream** |
A discussion of an empirical study that highlights the necessity of legalizing farmworkers for California’s agriculture. |

| **Benjamine Sasounian**  
*College of San Mateo*  
Mentor: Steven Lehigh |
| **Tracking US Farm Subsidies** |
An investigation of the negative health effects of US federal farm subsidies. |

| **Felix Haro III**  
*Reedley College*  
Mentors: John Heathcote & Samuel Rodriguez |
| **Green Thumbs: Will Legal Cannabis Have an Effect On Food Prices in California?** |
A study on the effect of manufacturing, cultivation, and legal sale of cannabis on food prices. |

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| **Ziqi Jin**  
*College of San Mateo*  
Mentors: Kamran Eftekhari & Christopher Walker |
| **The Potential of Parallel Programming** |
Exploring time efficiency differences between parallel and serial computer processing to argue that parallelism will be an increasingly important trend. |

| **Alexander Penney**  
*Reedley College*  
Mentors: John Heathcote & Patrick McDougall |
| **Wire Me a Pizza**  
A *Preliminary Design Study of a Parcel Delivery System* |
Discussing the groundwork for the design of an automated parcel delivery technology with physical and mathematical models. |

| **Luka Radosavljevic**  
*Cañada College*  
Mentors: Joseph Fullerton & Michael Hoffman |
| **Shedding Light on the Power of the Sun** |
An exploration of Solar Power as a prevailing solution to the major poverty crisis in South Africa. |
Session II: 11:30 a.m. – 12:30 p.m.

Room 209

**Pavin Johnson**  
**Crystal Kamada**  
Reedley College  
Mentors: Tracy Carrera & Bernard Navarro

**Gitta Ka-Sa-Nin**  
**Reconstructing Dhegiha Tribal Culture**  
Quapaw Dhegiha tribal efforts to disprove anthropological misconceptions by reclaiming cultural heritage.

**Alexiana Royer**  
MiraCosta College  
Mentor: Lynne Miller

**The Plight of Western Influence**  
**How International Policy Hinders Traditional Cultures**  
Analyzing the unintended consequences faced by traditional cultures when Western influence results in dramatic policy change.

**Elissa Jimenez**  
City College of San Francisco  
Mentor: Rebecca Ancheta

**Does Urban Restoration Lead to Cultural Deconstruction?**  
An observational account of gentrification in San Francisco’s Mission District and its impact on low-income communities of color.

Room 215

**Lucian Baxter**  
Los Medanos College  
Mentors: Edward Haven & Luis Zuniga

**Dead Inside: The Macabre, The Terrifying, and The Pursuit of Wholeness in Liszt and Rachmaninoff**  
A comparative analysis of Liszt’s *Totentanz: Paraphrase of the Dies Irae* and Rachmaninoff’s “Isle of the Dead” through Heidegger’s existential theory.

**Nurhan Elgamil**  
Saddleback College  
Mentor: Margot Lovett

**Evolution of Exploitation in the Frenchmen’s “Orient”**  
An examination of the exploitation of French Orientalist artists to support their colonial intentions and rhetoric.

**Daniel Shih**  
American River College  
Mentor: Kathleen O’Brien

**The Genealogy of Amorality**  
**A Nietzschean Reading of Blood Meridian**  
An interpretation of Cormac McCarthy’s *Blood Meridian* as a commentary on Nietzsche’s ideal of the Transvaluation of Values.
All presenters and attendees are expected to arrive no later than 1:30 p.m. and stay for the entire session. Please refrain from entering the room once the session is in progress.
Room 105

**Paradox of the Plenty: The Link between Authoritarianism and Oil Export Dependence**
Ruth Kachatorian
Glendale Community College
Mentor: Michael Harnett

Tracing the potential correlation between countries that rely on petroleum resources and their democratic ideals.

**Comparing Authoritarianism and Democracy in South Korea**
Daniel Rubinstein
American River College
Mentor: Alana Jeydel

An analysis of South Korea's authoritarianism and democracy periods to determine which is more viable for economic development and social services.

**Democracy for Which it Stands**
Alexis Zaragoza
Modesto Junior College
Mentor: Kerri Stephens

Linking the flaws of democratic systems that facilitate destabilization and terrorism within the global south.

Room 109

**Coltan Mining and its Effects on the Environment, Animals, and People of Congo**
Vanessa Newman
MiraCosta College
Mentor: John Turbeville

An examination of Coltan mining in Congo that is instrumental in modern electronics but also leads to war and environmental havoc.

**A Microevolution In Finnish Tawny Owls?**
Jon Andre Parrilla
Mt. San Antonio College
Mentor: Cindy Shannon

A determination of whether climate change has caused a microevolution in tawny owls in Southern Finland.

**Melting of Ancestors: The Opposite of the Ice Age**
Pedro Cruz
Reedley College
Mentor: John Heathcote

An examination of the rates of the melting glaciers to forecast the future for glaciers on the planet.
Room 130

Isabel Corser  
*Cabrillo College*  
*Mentor: Rebecca Jackson*

**What’s So Funny? An Exploration of Laughter**
An analysis of human’s use of laughter as communication by examining it from physiological, ontogenetic, function, and phylogenetic perspectives.

Daniel de la Calle  
*College of San Mateo*  
*Mentors: Jim Clifford & Sara Lawrence*

**The Cognitive Mechanics of Creativity**
Analyzing the neurological attributes of how memory is encoded, compartmentalized, and retrieved to argue that creativity is an inherent property of memory.

Natalie Rosas  
*Modesto Junior College*  
*Mentor: Bill Anelli*

**Herding Cats**  
*Can Philosophers Agree on What Philosophy Is?*
An interpretive defense of the nature of philosophy through definitional exploration.

Room 179

Sam Caldwell  
*Cabrillo College*  
*Mentors: Steve Schessler & Letitia Scott-Curtis*

**“chill from his rippling rest”**  
*The Tragic Poetry of Hart Crane*
An evaluation of Hart Crane’s success in “The Bridge” in building upon Walt Whitman’s lyrical epic *Leaves of Grass.*

Kristin Suthard  
*Los Angeles City College*  
*Mentors: Danielle Muller & Jeffrey Nishimura*

**Men of Renaissance: Rebirth in Dante and Derrida**
Deconstructing the mutual faith of Dante and Derrida to find that the *Commedia* offers an “open” ontology while Derrida’s proffered ontology is more “closed.”

Dmitrii Ponomarev  
*College of San Mateo*  
*Mentor: David Laderman*

**Trapped between Wars**  
*France and Poetic Realist Films*
Discussion of how the films of Poetic Realism reflected French society of the 1930s.
Room 182

Grant Swonk
Saddleback College
Mentor: Margot Lovett

The Empire’s Sophistry: British Arguments Concerning the Jallianwala Bagh Massacre of 1919
A formal analysis of the polarized reactions from the British press, politicians, and military who employed fallacious reasoning to rationalize the mass murder.

Joseph Merrill
Las Positas College
Mentor: John Rosen

Surviving the Smallpocalypse: Responses to Smallpox in the 16th to 18th Centuries
An examination of the evolution of Native American and European American responses to the apocalyptic impact of smallpox.

Fatiatamai Folau
Sacramento City College
Mentor: Sherri Patton

"Blackbirding": Slavery in the South Pacific
Exploring the negative effects of the widely unknown slavery of Polynesians/Melanesians called “Blackbirding.”

Room 183

Joyce Hu
Lo Lam Kwok
Yi Qing Lim
Tzu-Hsuan (Grace) Liu
Amit Pai
Maria Reyes-Fabregat
Foothill College
Mentors: Dadbeh Rouhbakhsh & Gillian Schultz

Bilingualism and Brain Waves
Investigating the Brain’s Behavior in Language Use
An examination of brainwave patterns in native Mandarin Chinese speakers conversing in Mandarin Chinese and English.

Mondana Bathai
College of San Mateo
Mentor: Chris Dowling

Comics: A Powerful and Unappreciated Educational Tool
Analysis of how comics can enhance critical thinking skills and media literacy.

Michaela Vanier
Los Medanos College
Mentor: Mara Landers

Greater Than or Less Than?
Inequality in California’s Math Education
A comparative analysis of 5th grade math implementation of Common Core Standards in public, private and homeschool settings.
Daniel Gibbard
Las Positas College
Mentor: Michael Ansell

Separation of Secondary Metabolites from Fungi and Plants
Discussing research conducted to search for new antibacterial products, an important step in the fight against new antibiotic-resistant diseases.

Shenhav David
Las Positas College
Mentor: Michal Shuldman

Antimicrobial Properties in Garlic Against *E. coli*
A discussion of research findings for testing the antimicrobial properties of five different plants on *E. coli*.

Andrew Bowen
Reedley College
Mentor: John Heathcote

Do Looks Matter?
Identifying Infected Plants Through Appearance
Examining the correlation between the appearance of *Vitis vinifera* leaves and their *Xylella fastidiosa* DNA concentrations.

Room 205

Anthony Fabbro
Los Medanos College
Mentors: Liana Padilla-Wilson & Kim Wentworth

Level Playing Field
Minority Head Coaches in the National Football League
A statistical analysis to determine whether there is a team success advantage in hiring a minority head coach.

Isabella Garcia
MiraCosta College
Mentor: Christopher Sleeper

The Forgotten Fifth: Emerging Parallels between Loyalists in the American Revolution and Contemporary American Minorities
Comparing the parallels in abuse suffered between the British Tory Loyalists after the American Revolution and minorities after the 2016 Election.

Samiha Shaheed
Mt. San Antonio College
Mentor: Sierra Powell

The Dangers of Repeating History
An analysis of the 1913 California Alien Land Act and its similarity to Donald Trump’s Travel Ban.
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Bethany Houalla
Glayol Kashani
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Khalid Yasseen
Irvine Valley College
Mentor: Benjamin Mis

Antidepressant Efficacy
The Effect Size of Five Antidepressants
Discovering that pharmaceutical companies that spend less on marketing antidepressants may explain the gap between drug efficacy and public knowledge.

Marissa Anderson
Irvine Valley College
Mentors: Kurt Meyer & Virginia Shank

The Antigen of Truth
Inoculating Anti-Vaccine Proponents
An examination of the relationship between the modern resurgence of the anti-vaccine movement fueled by the Internet and major outbreaks of preventable disease in the United States.

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Mohammad Qahoush
Irvine Valley College
Mentor: June McLaughlin

The Man Behind the Scenes
Plea Bargaining and Prosecutors
An investigation into how the criminal justice system incentivizes prosecutors to contribute towards mass incarceration.

Alan Hernandez
MiraCosta College
Mentor: Thao Ha

Macro Is The New Micro
How Sociology Can Help the Older Adult Suicide Rate
Examining sociology’s power for practitioners to accurately predict older adult suicide rates.

Casey Heaney
MiraCosta College
Mentor: Christopher Sleeper

Destroying Die Morphiumsucht
Lessons from America’s First War on Drugs
Examining opioid treatments from the first epidemic after the Civil War to provide more effective treatments today.
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