



The 11th Annual Community College
Honors Research Symposium
at UC Berkeley

May 5, 2018

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	<i>Keynote Speaker</i> , Associate Professor of Ethnic Studies, UCB
Michael Nakada	<i>Student Speaker</i> , American River College Honors Graduate
Kathy Rodgers	<i>Emcee</i> , American River College
Leilt Habte	<i>Transfer Workshop</i> , CCTC/TAP Assistant Director, UCB
Johnny Leon	<i>Event Coordination</i> , Center for Educational Partnerships, UCB
Maureen Willhoite	<i>Program Layout</i> , Los Medanos College
Emily Berg	<i>Program Editing</i> , Reedley College
Mehrdad Khosravi	<i>Moderator Coordinator</i> , De Anza College
Ricoh Printing	<i>Program Printing</i> , Las Positas College
Marylou Heslet	
Katharine Harer	
Candy Klaschus	
Ballet Folklorico Reflejos de Mexico	



OFFICE OF UNDERGRADUATE ADMISSIONS
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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!

A stylized, cursive signature in black ink, appearing to read "Amy Jarich".

Amy Jarich
Assistant Vice Chancellor & Director
Undergraduate Admissions

A stylized, cursive signature in black ink, appearing to read "Marsha Jaeger".

Marsha Jaeger
Assistant Vice Chancellor
Center for Educational Partnerships



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Table of Contents

Conference Schedule	1
Presentation Session Descriptions	
Session I	4-8
Session II	10-14
Session III	16-20
Index of Presenters	22-23
Index of Moderators	27



The 11th Annual Community College
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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



The 11th Annual Community College
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Session I Presentations 10:15-11:15 a.m.

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.

Room 105

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.

Room 109

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.

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

Jeremy Stark

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.

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.

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.

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.

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.

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.

Room 209

Khalid Yasseen

Saddleback College
Mentor: Marcelo Pires

Antibacterial Activity of Cinnamon Oil Against *Enterococcus faecalis*

Finding that cinnamon oil increases the inhibition of *E. faecalis* growth when combined with vancomycin.

Khadijah Khokhar

De Anza College
Mentor: Brian McCauley

Total DNA Extraction from Conjugated *E. coli* Bacteria

Discussing the optimization to extract both transferrable plasmid DNA and genomic DNA of *E. coli* bacteria to maximize total DNA yield and quality.

Lara Khosrovian
Maria Vardapetyan

Glendale Community College
Mentor: Asmik Oganesyan

A Perfect Bar of Soap for Grandpa

The testing of natural and synthetic tannins to formulate soaps beneficial for removal of 2-trans-nonenal.

Room 215

Aryanna Dashtgerd

Irvine Valley College
Mentor: Lewis Long

The Effect of Inflammatory Propaganda on Women's Reproductive Health Rights

An examination of how sensationalistic and emotional appeals have contributed to the recent rise of anti-abortionism.

Chinwe Idika

Footbill College
Mentor: Benjamin Stefonik

Integrative Medicine as a Remedy for Eurocentrism in Public Health Policy

An analysis of the implications of eurocentrism on the development of progressive international healthcare policies.

Heather Collins

Modesto Junior College
Mentor: Noah Hughes

Graveyards and Ghosts: Death of the Coral Reefs

An interdisciplinary examination of the socio-economic repercussions of the world's diminishing coral reefs.



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Room 105

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

Footbill 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.

Room 109

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

Footbill College
Mentor: Scott Lankford

Chinese Youth Climate Activists on the Move

Detailing case studies of Chinese youth climate activists and their approaches to fighting within the political environment.

Room 130

Moritz Wodtke

Cabrillo College
Mentors: Nicholas Rowell
& Steve Schessler

Assessing the Effects of Partisan Gerrymandering

A close examination of the negative impacts gerrymandering has using the political theory of Robert Dahl.

Spencer Merritt

Cabrillo College
Mentor: Nicholas Rowell

The Pay to Play Primary

Campaign Donations and Incumbent Advantage

A discussion of the cost of unseating an incumbent U.S. senator and its implications on the overall role of money in democracy.

William Scott-Curtis

Cabrillo College
Mentor: Nicholas Rowell

The Proportionality Project: The Equalization of Votes in the US House of Representatives

A data analysis of the 2016 US House of Representatives elections to determine the partisan efficiency gap and outcome of a theoretical proportional mixed-member election.

Room 179

Yaritza Hernandez

Reedley College
Mentors: Tracy Carrera
& Joseph Lin

Life as an Endless Pilgrimage: Chaucer's *The Canterbury Tales* and Understanding Group Relations

An analysis of the archetypes presented in Chaucer's text and how they can serve to improve group relations.

Nicholas Denstaedt

Mt. San Antonio College
Mentor: Edgar Muñiz

A Rose by any Other Name

Examining the Use of Names in *Henry IV*

Examining the cultural, historic, and psychological implications of names in William Shakespeare's *Henry IV*.

Elona Dahi

Mt. San Antonio College
Mentors: Edgar Muñiz

Not to Be: The Tragedy of Ophelia

A feminist analysis of Shakespeare's *Hamlet*, which argues that Ophelia is ultimately more tragic than the title character.

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
A historical analysis of the Golden Age of Islam and its influence on the European Renaissance reveals the surprising interconnections of civilizations.

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.

Room 187

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.

Room 205

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.

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 Amoralism

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.



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Session III Presentations

1:30-2:30 p.m.

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Room 105

Ruth Kachatorian

Glendale Community College
Mentor: Michael Harnett

**Paradox of the Plenty: The Link between
Authoritarianism and Oil Export Dependence**

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

Daniel Rubinstein

American River College
Mentor: Alana Jeydel

**Comparing Authoritarianism and Democracy
in South Korea**

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

Alexis Zaragoza

Modesto Junior College
Mentor: Kerri Stephens

Democracy for Which it Stands

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

Room 109

Vanessa Newman

MiraCosta College
Mentor: John Turbeville

**Coltan Mining and its Effects on the
Environment, Animals, and People of Congo**

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

Jon Andre Parrilla

Mt. San Antonio College
Mentor: Cindy Shannon

A Microevolution In Finnish Tawny Owls?

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

Pedro Cruz

Reedley College
Mentor: John Heathcote

Melting of Ancestors: The Opposite of the Ice Age

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 *Commedi* 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

Footbill College
Mentors: Dadbeb Roubbakhsb
& 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.

Room 187

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.

Room 209

Bethany Houalla
Glaiol Kashani
Taylor Khan
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.

Room 215

Mohammad Oahoush

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.



The 11th Annual Community College
Honors Research Symposium
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Index of Presenters

Index of Presenters

Name	Session	Room
Anderson, Marissa	I	205
Anderson, Marissa	III	209
Arab, Pargoal	II	183
Bathai, Mondana	III	183
Baxter, Lucian	II	215
Beachboard, Nicole	I	130
Bernal, Nicole	I	182
Bowen, Andrew	III	187
Brown, Chelsea	I	205
Caldwell, Sam	III	179
Carter, Antoneil	I	179
Castillo, Walter	I	187
Chamberlain, Chris	II	182
Chun-Moy, Meleana	II	109
Collins, Heather	I	215
Connoy, Alex	I	179
Corser, Isabel	III	130
Cruz, Pedro	III	109
Dahi, Elona	II	179
Dashtgerd, Aryanna	I	215
David, Claudia	I	183
David, Shenhav	III	187
de la Calle, Daniel	III	130
Denstaedt, Nicholas	II	179
Duperron, Juliana	II	105
Elgamil, Nurhan	II	215
Fabbro, Anthony	III	205
Fitch, Flannery	I	105
Folau, Fatiatamai	III	182

Name	Session	Room
Frey, Sabrina	II	109
Garcia, Isabella	III	205
Gibbard, Daniel	III	187
Haro III, Felix	II	187
Heaney, Casey	III	215
Hernandez, Alan	III	215
Hernandez, Yaritza	II	179
Houalla, Bethany	III	209
Hu, Joyce	III	183
Hu, Xinyi	II	109
Huang, Michelle	I	109
Hundal, Harloveleen	I	182
Huo, Peihan	II	187
Idika, Chinwe	I	215
Jacobson, Daniel	II	183
Jimenez, Elissa	II	209
Jin, Ziqi	II	205
Johnson, Pavin	II	209
Kachatorian, Ruth	III	105
Kamada, Crystal	II	209
Kashani, Glayol	III	209
Khan, Taylor	III	209
Khokhar, Khadijah	I	209
Khosrovian, Lara	I	209
Kwok, Lo Lam	III	183
Kjesbu, Genevieve	II	105
Lim, Audrey	I	205
Lim, Yi Qing	III	183
Liu, Tzu-Hsuan (Grace)	III	183

Index of Presenters

Name	Session	Room
Lu, Pansy	II	182
Matsubara de Morais, Leticia	II	105
Mattson, David	I	130
Mendez, Luis	I	205
Merrill, Joseph	III	182
Merritt, Spencer	II	130
Neel, Jacob	I	205
Newman, Vanessa	III	109
Nguyen, Amy	I	105
Padilla, Alejandro	II	183
Pai, Amit	III	183
Parrilla, Jon Andre	III	109
Parthasarathy, Adarsh	II	187
Patel, Smeet	I	109
Penney, Alexander	II	205
Ponomarev, Dmitrii	III	179
Pratap, Ashneel	I	109
Qahoush, Mohammad	I	205
Qahoush, Mohammad	III	215
Radosavljevic, Luka	II	205
Reyes-Fabregat, Maria	III	183
Rosalez, Daisy	II	105
Rosas, Natalie	III	130
Rosenkrantz, Michael	I	187
Royer, Alexiana	II	209
Rubinstein, Daniel	III	105
Sadok, Tasneem	I	183
Sanders, Yvette	I	182
Sandria, Sandra	I	183

Name	Session	Room
Sasounian, Benjamine	II	187
Scott-Curtis, William	II	130
Seifollahi, Samyar	I	205
Shahbaz, Muhammad	II	182
Shaheed, Samiha	III	205
Shih, Daniel	II	215
Stark, Jeremy	I	183
Suthard, Kristin	III	179
Swonk, Grant	III	182
Tapia, Isabelle	I	130
Tulberg, Elan	I	105
Upadhye, Shiva	II	105
Vanier, Michaela	III	183
Vardapetyan, Maria	I	209
Villanueva, John	II	105
Wodtke, Moritz	II	130
Yasseen, Khalid	I	209
Yasseen, Khalid	III	209
Zahran, Mariam	I	187
Zaragoza, Alexis	III	105
Zarate, Alina	I	179
Zhao, Zijie	II	109



The 11th Annual Community College
Honors Research Symposium
at UC Berkeley May 5, 2018

Index of Moderators

Moderator	College	Session	Room
Ancheta, Rebecca	City College of San Francisco	II	209
Anelli, Bill	Modesto Junior College	II	182
Anelli, Bill	Modesto Junior College	III	130
Arias, Joachin	Los Angeles Harbor College	I	183
Berg, Emily	Reedley College	III	182
Cabral, Scott	Los Medanos College	I	209
Cannon, Judy	Crafton Hills College	III	183
Castro, Luciana	Skyline College	III	209
Coleman, Yolanda	Mission College	I	105
Coleman, Yolanda	Mission College	II	183
Frank, Paul	Sacramento City College	III	215
Hall, Patty	Cañada College	I	205
Haven, Edward	Los Medanos College	I	109
Heathcote, John	Reedley College	II	187
Irwin, Tatiana	College of San Mateo	I	179
Komas, Rob	College of San Mateo	III	205
Laderman, David	College of San Mateo	I	130
Lankford, Scott	Skyline College	II	109
Lin, Joseph	Reedley College	II	179
Lovett, Margot	Saddleback College	I	187
Mangin, Michael	Cabrillo College	III	109
Mo, Eva	Modesto Junior College	I	215
Robello, Ariel	Cabrillo College	II	130
Schessler, Steve	Cabrillo College	III	179
Shuldman, Michal	Las Positas College	III	187
Smith, Jennifer	Los Medanos College	II	105
Stephens, Kerri	Modesto Junior College	I	182
Stephens, Kerri	Modesto Junior College	III	105
Walker, Chris	College of San Mateo	II	205
Zuniga, Luis	Los Medanos College	II	215

