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The 9th Annual Community College  
**Honors Research Symposium**  
at UC Berkeley May 7, 2016

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## Conference Committee

<b>Bernie Day</b>	Foothill College
<b>Sarah Harmon</b>	Cañada College
<b>Candace Klaschus</b>	Las Positas College
<b>Sami Kudsi</b>	City College of San Francisco
<b>David Laderman</b>	College of San Mateo
<b>Joyce Lee</b>	Skyline College
<b>Benedict Lim</b>	City College of San Francisco
<b>Mary Lim</b>	UC Berkeley
<b>Bryan Martinez</b>	UC Berkeley
<b>Eva Mo</b>	Modesto Junior College
<b>Jennifer Saito</b>	Los Medanos College
<b>Colin Schatz</b>	Las Positas College
<b>Steve Schessler</b>	Cabrillo College
<b>Letitia Scott-Curtis</b>	Cabrillo College
<b>John Ulloa</b>	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.

<b>Marsha Jaeger</b>	Assistant Vice Chancellor for Educational Partnerships, UCB
<b>Scott Lankford</b>	Keynote Speaker
<b>Aliaksandr Hudzilin</b>	City College San Francisco Honors Graduate, Student Speaker
<b>Brittany Anderson</b>	TAP Coordinator, UCB Center for Educational Partnerships
<b>Christina Tinsley</b>	TAP Coordinator, UCB Center for Educational Partnerships
<b>Maureen Willhoite</b>	Program Layout, Los Medanos College
<b>Ricoh Printing</b>	Program Printing, Las Positas College
<b>Artists in Resonance</b>	





ADMISSIONS AND ENROLLMENT  
CENTER FOR EDUCATIONAL PARTNERSHIPS

Dear Bay Honors Research Symposium Guests,

Welcome to the 9<sup>th</sup> Annual Bay Honors Research Symposium for community college honors students. We are pleased to host the symposium at UC Berkeley for the fourth time and to have this opportunity to offer our congratulations to you on your achievements, your original research and your hard work in challenging Honors courses.

Today's presentations give us an example of the great talent that exists among the many transfer students at community colleges across California. It is clear that you students have the potential to be the future researchers, scholars and leaders of our state, nation and world. With your experience in research and achievements in the honors program, we want to 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 fall class. Among those admitted are many who are the first in their family to go to college, come from low-income families or have otherwise faced 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](mailto: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!

Anne De Luca  
Associate Vice Chancellor  
Admissions and Enrollment

Marsha Jaeger  
Assistant Vice Chancellor  
Center for Educational Partnerships





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**Schedule of Events**

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

**Candy Klaschus & David Laderman, Emcees**

**Scott Lankford, Keynote Speaker**

**Session I Presentations . . . . . 9:45-10:45 a.m.**

**Session II Presentations . . . . . 11:00-12:00 p.m.**

**Lunch . . . . . 12:00-1:00 p.m.**

**Session III Presentations . . . . . 1:15-2:15 p.m.**

**Closing Ceremony - Dwinelle 155 . . . . . 2:30-3:30 p.m.**

**Performance by UC Berkeley’s Artists in Resonance**

**Alex Hudzilin, Student Speaker**

*City College of San Francisco & UC Berkeley Alumnus*

**Bay Honors Consortium Honors Faculty of the Year Award**

**The Katharine Award**

**The Heslet Scholar Award**

**Admissions Workshop- Dwinelle 155. . . . . 3:45-4:30 p.m.**

*Brittany Anderson, Transfer Alliance Program Coordinator, UC Berkeley*

**Campus Tours**







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**Session I Presentations** 9:45-10:45 a.m.

All presenters and attendees are expected to arrive no later than 9:45 a.m. and stay for the entire session. Please refrain from entering the room once the session is in progress.

## **Room 242**

### **Paul Kang**

*Cañada College  
Mentor: Doug Hirzel*

### **Chinese Acupuncture From Traditional to Modern**

Studies the relationship between traditional Chinese acupuncture and modern science.

### **Amanda Oseguera**

*Sacramento City College  
Mentor: Paul Frank*

### **Mental versus Physical Health Is One More Important than the Other?**

An evaluation of current international policies regarding mental health.

### **Lesley Taylor**

*Mission College  
Mentor: Jeffrey Cormier*

### **Yoga Therapy for Mental Health The Mind-Body Approach**

Scientific studies strengthen the argument that mind-body therapies such as yoga can be effective treatment for mental health disorders.

## **Room 243**

### **Margaret Patterson**

*Modesto Junior College  
Mentor: Eva Mo*

### **Illicit Sex: Hidden Affairs of Slave Holders**

Investigates slave/master dynamics within the context of 19th-century American social behavior.

### **David Reyes**

*Citrus College  
Mentor: Brian Waddington*

### **Spurious George: The Thomas Paine Letter**

Contends that Thomas Paine's letter to George Washington indicts him as self-serving and corrupt.

### **Bryan Dean**

*MiraCosta College  
Mentor: Christopher Sleeper*

### **A Dangerous Departure The Loss of American Radicalism**

The loss of American radicalism presents a threat to classical ideals of republicanism in the United States.

## Room 246

### **Gabriela Childree**

*Skyline College*  
*Mentor: Nick Kapp*

### **Fecal Attraction: Predatory Responses to Preys' Feces**

Understanding predatory behavior in captive African lions by introducing them to the scat of various other animals.

### **Sameer Aboufadel Bridget O'Brien**

*MiraCosta College*  
*Mentor: Lynne Miller*

### **The Absence of Darkness Effects on Circadian Rhythms and Sleep**

Examines the correlation between light and sleep and its effect on circadian rhythms.

### **Angel Macias**

*Citrus College*  
*Mentor: Andrew Steele*

### **Mapping Dopaminergic Circuitry**

Investigates the dopaminergic circuitry mediating daily feeding anticipation in circadian intervals of mice.

## Room 247

### **Jacqueline Nares**

*Los Medanos College*  
*Mentor: Jennifer Saito*

### **Miyazaki's Castle**

A comparative analysis of the impact of Hayao Miyazaki's films.

### **Emma Fotheringham**

*Cabrillo College*  
*Mentor: David Sullivan*

### **Snow White to Snow Queen Disney's Princess Protagonists**

Looks at relevant feminist critiques of Disney's princess protagonists and their influence on female children.

### **Tessa Ramsay**

*Cabrillo College*  
*Mentor: David Sullivan*

### **The Babadook Metaphorical Monster of Postcolonialism**

This analysis of Australian horror film *The Babadook* illustrates the psychological trauma of postcolonialism and art's role as sociopolitical commentary.

## Room 250

**Luis Mancilla**  
**Robin Silver**

*Skyline College*  
*Mentor: John Ulloa*

**Masters of Traditional Ceremonies**  
**The Hip-Hop MC and Modern Preachers**

An examination of the social, cultural, and environmental factors in the Black American Experience that eventually influenced the performance of the modern MC.

**Kylie Vandenson**

*Los Medanos College*  
*Mentors: Guy Brookshire*  
*& Jennifer Saito*

**Justice Denied: How would Plato Critique Minimum Sentencing Guidelines?**

Using Socrates and Plato's philosophic principles to challenge the morality of inflexible prison sentencing rules.

**Michael Lieu**

*Skyline College*  
*Mentor: Michael Phipps*

**The Chinese "Cotton Club": Asian Artists of San Francisco's Forbidden City Nightclub**

Historical examination of Asian performers who were caught between two cultures.

## Room 251

**Lloyd Molina IV**

*Cabrillo College*  
*Mentors: Allan Lonnberg*  
*& Dustin McKenzie*

**Killing Me Softly: Obesity and the Reservation System**

Uses Pima communities to consider the effects of the reservation system on the obesity crisis.

**Kushal V Jain**

*Foothill College*  
*Mentors: Bernie Day*  
*& Scott Lankford*

**Climate Change: The New Grim Reaper**

Examines the psychological correlation between how our brains deal with death and climate change.

**Bria Fernandez**

*Sacramento City College*  
*Mentor: Paul Frank*

**Looking Forward to Successful Aging**

A cross-cultural analysis on the theory of "successful aging" according to the current aging populations in Sweden, Japan, and the United States.

## Room 254

**Heather (Hefzibah) Kornblum**

*Footbill College*  
*Mentor: Mark Bauermeister*

**I Feel You: Empathy as a Tool to Promote Safer Sex**

Empathy can promote higher rates of condom use in casual sexual hookups.

**Julio Luis Gopez**  
**Muhammad Shahbaz**

*American River College*  
*Mentor: Dean Murakami*

**Sacrificing Health for Wealth: The Psychosocial Dilemma of American Football**

Investigates the high risk repeated head trauma poses in football and evaluates whether knowing the risks influences participation.

**Dhyani Parekh**

*Las Positas College*  
*Mentor: Candace Klaschus*

**Women in the Military?**

Analysis of what having women serve in the American military entails and its role in the feminist movement.

## Room 255

**Sherry Lee**

*Sacramento City College*  
*Mentor: Paul Frank*

**Suicide: Silent Death Among East Asian Students**

Social and economic pressures on East Asian students have led to increasing rates of suicide.

**Danya Adib**  
**Noelle Gross**

*Footbill College*  
*Mentor: Robert Hartwell*

**The Battling Mind**  
**Music's Role in Overcoming Adversity**

Two suicide survivors use film to explore music's power over listeners.

**Cassidy Cruz**

*Sacramento City College*  
*Mentors: Paul Frank*  
*& Illyana Johnson*

**Not So Easily Bruised**  
**The Millennial Generation of East Asia**

Analyzes the socioeconomic and political impacts of the millennial generation of East Asians.

## **Room 258**

### **Ethan Lee**

*College of San Mateo  
Mentor: Rob Komar*

### **Obsessing Over OCD**

Looks at symptoms, causes, and treatments for obsessive-compulsive disorder.

### **Rolland Tizuela**

*MiraCosta College  
Mentor: Lynne Miller*

### **When God Talks, I Count**

Obsessive-compulsive and schizophrenia sufferers' behaviors may be influential in a religious context.

### **Samantha Trump**

*College of San Mateo  
Mentor: Rob Komar*

### **Lucy In The Sky With Diamonds**

An analysis of the prohibition of LSD and the new science of LSD therapy.

## **Room 259**

### **Tommy Tjandra**

*Footbill College  
Mentor: Scott Lankford*

### **Fueling the Fire We Want to Put Out Indonesia and Climate Change**

Comparative analysis of arguments regarding failure to control fossil fuel production and Indonesia's approaches to handling climate change.

### **Alexandra Lillig**

*Irvine Valley College  
Mentor: Lewis Long*

### **Greener Future: Environmental Impact of Electric Cars**

Assesses three types of electric vehicles for economic sustainability and emission impacts.

### **Nick Firestone**

*College of San Mateo  
Mentors: Rob Komar  
& Christopher Walker*

### **Machine Learning for a Better Tomorrow**

Applications using machine learning algorithms and artificial intelligence may overcome challenges in implementing renewable energy.



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**Session II Presentations**

11-12 p.m.

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## Room 242

Blake Plante

*Riverside City College*  
*Mentors: Dariusz Haghighat*  
*& Ervin Slavic*

### Palestine's Commitment to Sustainable Development

Geopolitical restraints hinder Palestine's ability to adapt to climate change and create a sustainable territory.

Ayah Hamdan

*College of San Mateo*  
*Mentors: Zelte Cranford*  
*& Kimberly Escamilla*

### War Zone Pregnancy

Explores economic, political and cultural issues faced by pregnant Palestinian women living under Israeli occupation

Melody Jimenez

*Sacramento City College*  
*Mentor: Paul Frank*

### Neoliberalism in Latin American Education More Harm than Good?

An assessment of the harmful effects neoliberalism has had on Latin American higher education.

## Room 243

Kathryn La

*Glendale Community College*  
*Mentors: Michael Harnett*  
*& Michael Stewart*

### Semantic Processing for Enhanced Learning

Links the importance of semantic processing to assimilation of new information.

Janette Bustos Barocio  
Sonia Bustos Barocio  
Prabhjot Singh

*Los Medanos College*  
*Mentors: Briana McCarthy*  
*& Jennifer Saito*

### Invasion of the Oxygen Snatchers: The Effects of Phosphate Levels on *Elodea Canadensis* Growth

This study determines conditions promoting growth of dangerous invasive species.

Joshua Meihaus

*MiraCosta College*  
*Mentor: Thao Ha*

### The New Rainbow Flag: Brony Identity and the Construction of Non-Normative Masculinity

Analyzes the neurocognitive effects and sociological implications of hegemonic masculinity for My Little Pony: Friendship is Magic participants.



## Room 246

Daniel Powers

*Skyline College*  
*Mentor: Koskelo Ilkka*

### The Complexity of Air

How to build a wind tunnel on a minimal budget and then interpret the data.

Jessica Artinger  
Hali Dickson

*Orange Coast College*  
*Mentor: Jerome Fang*

### Burning the Standard Candle from Both Ends

Construction of a Hubble Diagram to determine whether galaxies can be used to accurately determine distances.

Nestor Aquino

*Citrus College*  
*Mentors: Rakesh Mogul*  
*& Marianne Smith*

### Planetary Protection: Growth of Mars-Associated Acinetobacter on Spacecraft Cleaning Reagents

Advocates more study be done on planetary protection practices before any further Mars missions.

## Room 247

Youree Choi

*El Camino College*  
*Mentor: Bryan Carey*

### MyPlate and Your Plate: Flaws and Failures of the USDA's Push for Nationwide Health

Exploring criticisms of the USDA's MyPlate infographic and the importance of recognizing different physiological needs.

Vanessa Reynolds

*MiraCosta College*  
*Mentor: John Turbeville*

### Manure Lagoons as Contributors to Climate Change

Concentrated animal feeding operations result in "manure lagoons," which contaminate groundwater and contribute to climate change.

Abigail Mende

*College of San Mateo*  
*Mentors: Paul Hankamp*  
*& Robert Komar*

### The GMO Controversy

Analyzing Genetically Modified Corn

Comparative analysis of benefits and potential risks in insect resistant corn.

## Room 250

Brianne Visaya

*Los Medanos College*  
*Mentor: Jennifer Saito*

### The Engineering Behind Art

The Journey from STEM to STEAM

A comparative analysis of engineering graphics with great masterpieces by David, Cézanne, and Picasso.

Bavly Ibrahim

*El Camino College*  
*Mentor: Teresa Palos*

### Epigenomics in Cancer Management

An explanation of the epigenetic modification's role in giving rise to different types of cancer cells.

Phyllis Gitobu

*MiraCosta College*  
*Mentor: Lynne Miller*

### Glow in the Dark Monkeys

Use of Genetic Engineering in Medicine

The use of several case studies illustrates how genetic engineering can be used to eradicate genetic disorders.

## Room 251

Shaharyar Masood

*College of the Redwoods*  
*Mentors: Susan Nordlof*  
*& George Potamianos*

### The Birth of Film Controversy: The Depolarization of Criticism for D.W. Griffith's "The Birth of a Nation"

Examines reviews of *The Birth of a Nation* to see how critics reconcile the film's racist ideology with its technical excellence.

Brenda Garcia

*Cabrillo College*  
*Mentor: Justina Buller*

### The Presence and Absence of Guns

Portraying Mexican Bandits and Slaves in Film

Examining archaeology and oral history to compare Mexican bandit and slave life and their portrayal in film.

Alam Figueroa Aguilar

*Cabrillo College*  
*Mentor: Justina Buller*

### Thomas Jefferson: The Pseudo-Science of Racism

Examines the scientific context of Thomas Jefferson's beliefs about race and their connection to contemporary racism.

## Room 254

Stella Matteoli McNeil

*College of the Redwoods*  
*Mentors: Dana Maher*  
*& Susan Nordlof*

With Liberty and Justice for the Deaf

Human Rights and America's Deaf Culture

Focuses on three fundamental rights of America's Deaf Culture.

Kathleen Persinger

*Saddleback College*  
*Mentor: Margot Lovett*

Banshees of the Modern Age

Female Irish Nationalists

Highlights the women who were part of the Irish nationalist movement in the early twentieth century.

Jennifer Peterson

*Cañada College*  
*Mentor: Sarah Harmon*

Practicality Over Pride

Can Endangered Languages Truly Be Saved?

Study of several endangered languages and their chances for survival.

## Room 255

Andrea Hofman

*West Valley College*  
*Mentor: Janine Gerzanic*

Prague's Underground Culture

Catalyst for the Velvet Revolution

An analysis of Prague's underground culture, and its influence on the 1989 Velvet Revolution.

Ashlee Shelton

*Cabrillo College*  
*Mentor: Letitia Scott-Curtis*

Beowulf: Ecclesiastic Clues in Archaeology

Recent archaeological discoveries in Western Europe and study of *Beowulf* allow a complex analysis of Anglo-Saxon religion.

Megan McCarthy

*MiraCosta College*  
*Mentor: Jeffrey Murico*

For the Love of God

The Role of Religion in the Modern Age

Argues that religion's deeply functional role aids its survival in the face of rational Enlightenment thinking.

## Room 258

Cody Strohl

*Irvine Valley College*  
*Mentor: Adam Ghuloum*

**Puerto Rico: The American Greece**

An evaluation of the Puerto Rican debt crisis through a cost-benefit analysis of the IMF economists' report.

Juan Rozo

*Cañada College*  
*Mentor: Paul Roscelli*

**Columbia and the Deviation from Comparative Advantage**

Analyzes how Columbia's deviation from comparative advantage has impeded economic development.

Joseph Luck

*El Camino College*  
*Mentor: Kurt Hull*

**Corporate Greed, Corporate Responsibility**

Analysis of utilitarian wealth maximization and cost analysis principles and their effect on corporations.

## Room 259

James Huber

*Fullerton College*  
*Mentor: Jodi Balma*

**How American (Un)Exceptionalism Shapes Policy**

The effect of exceptionalism on U.S. policies and politics compared to Denmark, Sweden, and Germany.

Emily Basnight

*Modesto Junior College*  
*Mentor: Bill Anelli*

**The Unencumbered Community**  
Liberating the Self and Society

Argues for an ethical approach to minority rights to ensure self-definition of all groups.

Amanda Allen

*City College of San Francisco*  
*Mentor: Mitra Sapienza*

**More Money, More Problems**  
Impacts on the Homeless

Explores the inverse relationship between increased funding and lower outcomes for San Francisco's homeless.



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**Session III Presentations**

1:15-2:15 p.m.

All presenters and attendees are expected to arrive no later than 1:15 p.m. and stay for the entire session. Please refrain from entering the room once the session is in progress.

## Room 242

Lili Fan

*College of San Mateo  
Mentors: Rob Komar  
& Christopher Smith*

### Effects of Salinity and Acidity on Urinary Tract Infections

Proposes a method of treating urinary tract infections by using *E. coli*'s nonhalophile and neutrophile properties.

Halleli Mancía

*Los Angeles Harbor College  
Mentor: Kiersten Darrow*

### Salinity's Effects on Tidewater Goby

Study of tidewater goby larvae to see whether increasing salinity affects survival rate.

Akayi Thein

*Skyline College  
Mentor: Christine Case*

### The Critical Role of Microalgae

A nine-week laboratory study was conducted on ecological succession of microalgae and protozoa in their natural benthic sediments.

## Room 243

Bailey Johnson

*Sacramento City College  
Mentor: Ilana Johnson*

### From Sword to Chrysanthemum and Back Again

An examination of the political and cultural struggle to preserve an antimilitarist national identity in contemporary Japan.

Taylor Gonzalez

*Los Medanos College  
Mentors: Curtis Corlew  
& John Schall*

### Sign of the Times

Symbols as Social Justice Movement Tools

Social justice iconography is analyzed to determine its effectiveness.

## Room 246

Tiffany Duarte

*Glendale Community College*  
*Mentor: Michael Harnett*

### Can We Detect a Stare?

Intensity of a stare and the mental status of the staree play roles in stare detection.

Laura Jaber

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

### It's Complicated

The Relationship Between Shopping and Emotions

A study of shopping purchases and the emotions connected with money spent.

Jacqueline Do

*De Anza College*  
*Mentor: W. Craig Williams*

### Smile to Show

Examining visible facial muscle activity between friends to measure the communication of emotion.

## Room 247

Alexandra Escobar

*MiraCosta College*  
*Mentor: Lynne Miller*

### Cultural Tourism: Traditions Turned Commodities

Modern approaches to cultural tourism have increased revenues while still preserving local traditions.

Heather Collins

*Modesto Junior College*  
*Mentor: Susan Kerr*

### Homo Naledi: The Rising Star of Hominids

Examines the implications on cultural evolution of the excavation of *Homo naledi*.

Reagan Smith

*Irvine Valley College*  
*Mentor: Chris Loeffler*

### The Loss of Cultural Identity

Solving America's Curation Crisis

Proposes ending the loss of cultural knowledge by overhauling federal guidelines for archaeological collections management.

## Room 250

Dennis Dang  
Romi Sadlik

*Irvine Valley College*  
*Mentor: Benjamin Mis*

### What's Better than Learning?

Hedonic Contrast in Education

Examines the influence of an entertaining stimulus on one's interest and success in an immediate subsequent academic activity.

Christian Barajas

*Cabrillo College*  
*Mentor: Carla Bundrick-Benejam*

### Losing Our Grip on Penmanship: Implications of Technology on Handwriting Development

Contends that teaching only keyboarding skills impairs motor and cognitive skills.

Mark Vandre

*Santiago Canyon College*  
*Mentor: Tiffany Gause*

### Mission Status Curious, Phase II: The Influence on Veterans of Social Connections

Preliminary research suggests that veterans in college courses who are more socially connected with non-veterans tend to earn a higher GPA.

## Room 251

Hengle Li

*College of San Mateo*  
*Mentor: Judith Hunt*

### Divergence Within: An Ideological Comparison between Han China and Roman Europe

Argues that understanding the ideological differences between Han China and Roman Europe helps explain their modern development.

Omar Haddad

*Orange Coast College*  
*Mentor: Erik Rangno*

### Alain Badiou and Benito Cereno

The Contemporary Neglected Truth

A reading of Melville's *Benito Cereno* through French philosopher Alain Badiou's construct of ethics.

Rachael Persinger

*Saddleback College*  
*Mentor: Margot Lovett*

### A Forgotten Hero: Depictions of Nanny of the Maroons

Examines conflicting legends of Jamaican resistance fighter Nanny of the Maroons and their relationship to Jamaican identity.



## Room 254

Sydney Johnson

*MiraCosta College*  
*Mentor: Lynne Miller*

God, Nation, and the Right to Rape

Yazidi Sexual Slavery by the Islamic State

Examines ISIL's common practice of taking and keeping Yazidi women as sexual slaves.

Kiyoko Bouey

*Sacramento City College*  
*Mentor: Paul Frank*

U.S. Foreign Aid: The Price of Temporary Peace

An examination into how U.S. foreign aid correlates with international terrorism.

## Room 255

Jennifer Gomez

*Las Positas College*  
*Mentor: Nan Ho*

The Danger of Plastics: Testing the Toxicity of Leached Plasticizers in Bottled Water

*Daphnia Magna* cultures were exposed to plastic treated water samples to test the effects on population and reproductive status.

Theresa Da Silva

*MiraCosta College*  
*Mentors: John Turbeville*  
*& Robert Turner*

Hydraulic Fracturing and the Effectiveness of Tracers

Analyzes nanopartical tracers and their potential legal liability for hydraulic fracturing contamination.

Christopher Fabbri

*Los Medanos College*  
*Mentors: Mindy Capes*  
*& Margaret Kenrick*

The Secret Lives of Mushrooms

Determining whether oyster mushrooms can be used to clean contaminated water.

## Room 258

Pooya Khosravi  
Brandon Lehrich

*Irvine Valley College*  
*Mentor: Sanjai Gupta*

### A Mathematical Model for Reaction Rates on Instagram

Focuses on developing a multi-variable logistic model for response rates to Instagram content.

Agustin Pacheco

*Footbill College*  
*Mentor: Jeffrey Anderson*

### Inside the Matrix

Verifying the Dynamics of Pendulums and Springs

Experimental verification of the mathematical model governing the dynamics of harmonics oscillators.

Anthony Rodriguez

*Modesto Junior College*  
*Mentor: John Zamora*

### The (Con)Current State of Software Bugs

The cause and effect of concurrent software bugs on data, computing systems, and our well-being.

## Room 259

Jorge Bravo

*Mt. San Antonio College*  
*Mentor: Edgar Muñiz*

### The Tragic Demise of a Tyrant

Macbeth's Disfigured Soul

Argues that Macbeth's obsession with power derives from his fear of emasculation.

Stephanie Cervantez

*College of San Mateo*  
*Mentors: Madeleine Murphy*  
*& Mick Sherer*

### True Detective? A Comparison of Larsson, Lethem, and Chandler

Examines the evolution of the hardboiled detective archetype from 1930s American into the twenty-first century.

Nicholas Wong

*College of San Mateo*  
*Mentors: Muriel Brennan*  
*& Madeleine Murphy*

### Conformity in "Frankenstein"

A Psychological and Sociological Analysis

This project focuses on the theme of conformity in Mary Shelley's *Frankenstein*.



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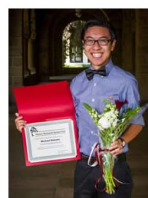


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