



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

Conference Committee

Bernie Day	Foothill College
Sarah Harmon	Cañada College
Candace Klaschus	Las Positas College
Sami Kudsi	City College of San Francisco
David Laderman	College of San Mateo
Joyce Lee	Skyline College
Benedict Lim	City College of San Francisco
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
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
Scott Lankford	Keynote Speaker
Aliaksandr Hudzilin	City College San Francisco Honors Graduate, Student Speaker
Brittany Anderson	TAP Coordinator, UCB Center for Educational Partnerships
Christina Tinsley	TAP Coordinator, UCB Center for Educational Partnerships
Maureen Willhoite	Program Layout, Los Medanos College
Ricoh Printing	Program Printing, Las Positas College
Artists in Resonance	



ADMISSIONS AND ENROLLMENT
CENTER FOR EDUCATIONAL PARTNERSHIPS

Dear Bay Honors Research Symposium Guests,

Welcome to the 9th 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 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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The 9th Annual Community College
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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



The 9th Annual Community College
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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.

All presenters and attendees are expected to arrive no later than 11 a.m. and stay for the entire session. Please refrain from entering the room once the session is in progress.

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.

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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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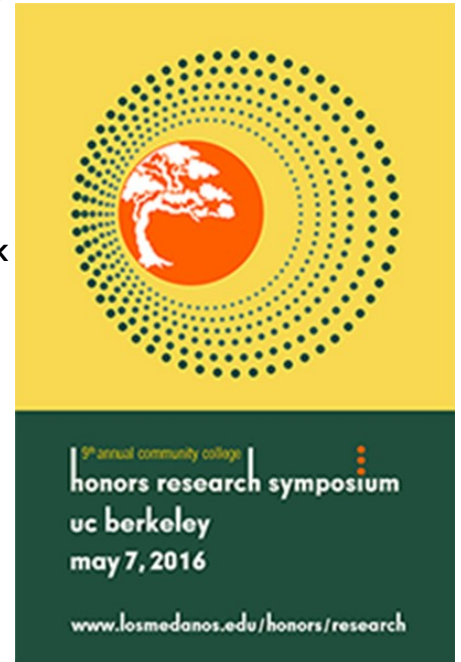
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