

# **Western Regional Honors Council Conference 2022**



**Revolutions and Constellations:  
The Dawning of New Paradigms**

**Conference Program**

April 8-10, 2022 · Albuquerque, New Mexico

# A SPECIAL THANK YOU TO OUR SPONSORS

We'd like to thank our sponsors for contributing to the success of our conference. Please see below the complete list of all our Sponsors for the 2022 WRHC Conference.



## Gold Tier Sponsors

- UNM Anderson School of Management Graduate Programs
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## A special thanks to

- Hotel Andaluz
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- Meow Wolf
- Jennifer Silva - UNM Honors College
- Jeannie Baca - UNM Honors College
- Dr. Troy Lovata - UNM Honors College
- Greg Golden - Lobo Prevention Pack, UNM Dean of Students Office
- Cheryl Wallace - UNM Student Union Building
- Courtney Holmes - UNM School of Engineering
- Cathy Chalk - UNM Career Services

# SPECIAL ACKNOWLEDGMENTS

We would like to thank the individuals who have worked diligently to make this conference possible. Please see below a list of those who have contributed to the success of the 2022 WRHC Conference.

## WRHC Class Instructors

- Dr. Myrriah Gómez
- Professor Amaris Ketcham

## Conference Contributors

- Dean Eric Lau
- Shelby Smith
- Sarah Fryberger
- Flannery Cowan
- Raven Otero-Symphony

## WRHC Class Staff Members

- Madeline Carroll
  - McKenzie Cordova
  - Ana Danh
  - Jeannette DeDios
  - Leo Duran
  - Rika Fukuda
  - Lyndsey Gabaldon
  - Matthew Goldman
  - Raina Harper
  - Vineet Narayanan
  - Toai Ton-That
- Fall Semester
- Herschel Heath
  - Katrina Keller
  - Colin Nguyen
  - U.T. Tran

## Land Acknowledgment

### UNM Indigenous People's Land and Territory Acknowledgement

Founded in 1889, the University of New Mexico sits on the traditional homelands of the Pueblo of Sandia.

The original peoples of New Mexico - Pueblo, Navajo, and Apache - since time immemorial, have deep connections to the land and have made significant contributions to the broader community statewide.

We honor the land itself and those who remain stewards of this land throughout the generations and also acknowledge our committed relationship to Indigenous peoples.

**We gratefully recognize our history.**

Developed by the Special Assistant for American Indian Affairs to the UNM President  
in consultation with the Native American Faculty Council.  
Approved and adopted by President Garnett S. Stokes, February 2020

Art by Jennifer Ober

## QUICK NAVIGATION

[Schedule Overview](#)[Sat. Lunch Menu](#)[Map](#)[Descriptions](#)[Session 1](#)[Session 2](#)[Session 3](#)[Session 4](#)[Session 5](#)[Session 6](#)[Poster A](#)[Poster B](#)



## Keynote Speaker Vince Kadlubek

Vince Kadlubek is a Founder of Meow Wolf, an art collective that has transformed into an award winning Art and Entertainment Production Company that specializes in immersive, open-world walk through experiences. Vince acted as leader and CEO for Meow Wolf through its formidable years, having created the business plan for Meow Wolf's House of Eternal Return and leading the team towards the project's completion in March of 2016. In January of 2017 Kadlubek formed Meow Wolf, Inc as a full fledged arts production company and creative studio positioned to create the largest, most innovative and audacious monumental art exhibits in the world. After raising series A funding he announced two new Meow Wolf exhibits in Las Vegas and Denver, opening in 2021. Kadlubek has been a force of vision in the realm of experiential art, and in 2020 launched a creative consulting agency called Spatial Activations as a platform to usher in a new era of experiential art in modern developments and everyday life. Vince is most passionate about co-creating fully-realized alternative realities that bring paradigm-shifting transformation and inspiration to the world.

Please feel free to contact our Google Phone Number  
with any questions/concerns: 505-373-1353

# SCHEDULE OVERVIEW

## Friday, April 8th

- Meow Wolf's House of Eternal Return Exhibit | On-site learning experience
  - 10:30 AM - Meow Wolf participants check-in
  - 11:00 AM - Shuttle leaves Hotel Andaluz
  - 12:30 PM - Arrive at Meow Wolf
  - 3:30 PM - Depart from Santa Fe
  - 4:30 PM - Arrive back at Hotel Andaluz
- 11:00 AM - Optional - Campus Tour - meets at Hotel Andaluz (Lobby)
- 12:00 PM - Optional - Place as Text begins at Hotel Andaluz (Lobby)
- 3:00 PM - Optional - Place as Text wrap-up at Hotel Andaluz (Lobby)
- 5:00 PM - Registration check-in begins at Hotel Andaluz (Lobby)
- 6:00 PM - Dinner begins for Scribendi Reception in the Hotel Andaluz Ballroom (Mezzanine)
- 7:00 PM - Scribendi Reception begins in Ballroom (Mezzanine)

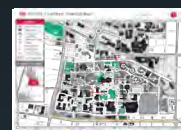
## Saturday, April 9th

- 8:00 AM - Registration
- 8:45 AM - Welcome
- 9:00 AM - Session 1
- 10:00 AM - Session 2
- 11:00 AM - Session 3 and Poster A
- 12:00 PM - Lunch
- 1:30 PM - Session 4 and Poster B
- 2:30 PM - Session 5
- 3:30 PM - Session 6
- 5:30 PM - Dinner
- 7:00 PM - Keynote

## Sunday, April 10th

- 9:00 AM - Business meeting at UNM Honors College

[CLICK HERE](#)



[TO VIEW MAP](#)

# SCHEDULE

## SATURDAY, APRIL 9TH

### SESSION ONE: 9:00 AM - 9:50 AM

**WORKSHOP 1:** "Davidson Honors College - Honors Pathways Project"

Bethany Applegate - University of Montana  
HC 1040

**WORKSHOP 2:** "Write Yourself: Mastering Artist Statements and Author Bios"

Nell Johnson - The University of New Mexico  
John Scott - The University of New Mexico  
Drew Sowers - The University of New Mexico  
Ashley Apodaca - The University of New Mexico  
HC 1020

**WORKSHOP 3:** "Teaching for Action: Climate Change, Community, and Mental Health"

Peter McDonough - University of Montana  
Kennedy-Anne Marx - University of Montana  
HC 1004

"Integrating Personal and Professional Development in the Honors Experience:  
The Student Perspective"

Kylla Benes - University of Montana  
Kaetlyn Cordingley - University of Montana  
Amelia Hawes - University of Montana  
Isabelle Melton - University of Montana  
Sandee Sepulveda - University of Montana  
CTLB 230

**SCIENCE I:** "Solving the Issue of Inefficiency for Multiple Faceted Variable Energy Systems"

Gabriel Gurule - The University of New Mexico  
"Purification and Crystallization of BaIK for Structural and Mechanistic Studies"  
Carolina Mata - California State Polytechnic University, Pomona  
"A Walk through the Desert"  
Nadya Rued - Chapman University  
CTLB 210

**HUMAN RIGHTS:** "Attitudes Towards the Treatment of Prisoners"

Aleece Hanson - California State University - Long Beach  
"Why Is It Taking So Long? Political Factors That Played into the Passing of Previous  
U.S. Immigration Reforms that Point the Way to Reform Today"  
Celeste Sanchez - California State University - Long Beach  
"The Design Process: Turning a Heavy Asphalt Parking Lot into a Green Urban Oasis"  
Victoria Trujillo - The University of New Mexico  
CTLB 300

CLICK HERE



TO VIEW MAP

# SATURDAY, APRIL 9TH

SESSION ONE: 9:00 AM - 9:50 AM

**INTERNATIONAL** "Hypersonics: A Non-Distant Regime"

**POLITICS:** Zachary Curd - The United States Air Force Academy

"A Look at the Correlation between Voter Turnout, Inequality, and Education Spending"

Kufre McIver - The University of New Mexico

"The United States Military's Role in Pakistan and India's Continually Strained Relationship in Political, Economic, and Social Engagements, Post War on Terror"

Sophie Dinning - University of Nevada - Reno

CTLB 330

**SOCIAL JUSTICE I:** "Eliminating Racial Disparities for Black Students in Higher Education"

Julian Sorapuru - University of San Francisco

"The Oneida Community: The Making of Super Babies"

Rolando Pineda - MiraCosta College

CTLB 130

**FINANCE I:** "Financial Literacy and Borrowing Behavior in Different Age Groups"

Andrew Brands - California State Polytechnic University, Pomona

"Predatory Lending and Low-Income Latinx Communities"

Jessica Valencia Alvarado - California State University - Long Beach

GSM 128

## SESSION TWO: 10:00 AM - 10:50 AM

**WORKSHOP 4:** "Women in Leadership: Emotional Intelligence in the Workplace"

Lauren Odette - Central Washington University

HC 1040

**WORKSHOP 5:** "Student Leadership in Honors: Recruitment, Retention, Learning, and Community Building"

Timothy Nichols - University of Montana

Isabelle Melton - University of Montana

Joshua Martelon - University of Montana

Kylie Crist - University of Montana

Ruby Loeffelholz - University of Montana

Sarah Hibbard - University of Montana

HC 1020

"Bearing Witness: Honors Curriculum and the Voices of Incarcerated Youth"

Erin Saldin - University of Montana

Lauren Collins - University of Colorado - Boulder

Amelia Hawes - University of Montana

Jorgia Hawthorne - University of Montana

HC 1004

# SATURDAY, APRIL 9TH

## SESSION TWO: 10:00 AM - 10:50 AM

[CLICK HERE](#)



[TO VIEW MAP](#)

"The Ins and Outs of Submitting to a Magazine with the Scribendi Staff"

Abigail Campbell - The University of New Mexico

Anna Abeyta - The University of New Mexico

Emma Ziegler - The University of New Mexico

CTLB 230

"Feeding the Mind When the Body is Hungry"

Dylan Justus - The University of New Mexico

Elizabeth Dodson - The University of New Mexico

Kiana Frederick - The University of New Mexico

CTLB 210

**HEALTH AND HEALING:** "How Does That Make You Feel? A Correlational Study on Emotional Intelligence and Empathy"

Alyssa Meier - Whitworth University

"Have Pandemic Working Conditions Impacted Essential Workers' Death Anxiety and Mental Health?"

Jillian Munoz - California State Polytechnic University, Pomona

"Tracing the Nonlinearity of Healing in Open Water"

Anissah Madrid - Mt. San Antonio College

CTLB 300

**AGRICULTURE AND FOOD:** "How to Leverage AI-based Computer Vision for Dietary Intake Assessment: How to Make Image Sourcing More Efficient?"

Yue Jin - University of California - Davis

"Factory Farms Contribution to Pollution and Solutions"

Melina Vugrin - The University of New Mexico

"How to Prevent the Next Pandemic: The Controversial Weapon No One Wants to Talk About"

Valerie Naing - Mt. San Antonio College

CTLB 130

**ENVIRONMENT AND LANGUAGE:** "Creative Nonfiction in Conservation Messaging"

Kate Valentine - Washington State University

"The Effect of State and Non-State Actors on Environmental Conflict Resolution"

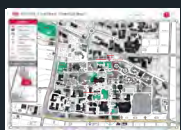
Aislinn Matagulay - University of California, Davis

"Ecoacoustics: Music and Environmental Activism"

Sylvia Wood - University of Montana

CTLB 130

CLICK HERE



TO VIEW MAP

# SATURDAY, APRIL 9TH

## SESSION TWO: 10:00 AM - 10:50 AM

**ART AND SOCIETY I:** "Keening Underwater: An Ecocritical Reframing of Ethical Considerations for Aquatic Organisms"

Arwen Baxter - University of Montana

"Film as a Weapon: How Latin American Filmmakers Used Movies as a Political Tool"

Dylan Haworth - The University of New Mexico

"Magic, Mythology, and Meditation: W.B. Yeats' Symbolic Vision of Ireland"

Kristen Chastain - University of California - Irvine

GSM 128

## SESSION THREE: 11:00 AM - 11:50 AM

**WORKSHOP 6:** "Crafting Personal Statements for Scholarships"

Kylla Benes - University of Montana

Julye Bidmed - University of Montana

Daniel Villanueva - University of Montana

John Orr - University of Montana

HC 1040

**WORKSHOP 7:** "Re-Envisioning the Future: How Can the Academy Mitigate Climate Change?"

Megan Jacobs - The University of New Mexico

Kineo Memmer - The University of New Mexico

HC 1020

**WORKSHOP 8:** "Honoring Creativity: Promoting Student Creative Works by Starting an Honors College Arts Magazine—A Roundtable"

Maria Jerinic - University of Nevada - Las Vegas

Tracy Fuentes - University of Nevada - Las Vegas

Vlada Stark - University of Nevada - Las Vegas

HC 1004

"Honors' Curriculum: A Logical Necessity"

Prakash Chenjeri - Southern Oregon University

Chris Santos - Southern Oregon University

Kaysa Pfannmuller - Southern Oregon University

CTLB 230

"Honors Living Learning Community: Developing A Unique Residential Experience for Honors Students"

Julia Wynne - University of Montana

Joshua Martelon - University of Montana

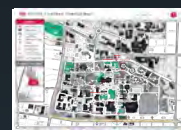
John Shupert - University of Montana

CTLB 210

# SATURDAY, APRIL 9TH

## SESSION THREE: 11:00 AM - 11:50 AM

[CLICK HERE](#)



[TO VIEW MAP](#)

### POLITICS AND INTERNATIONAL STUDIES:

"The Fundamental Goal of the Party in George Orwell's 1984"

Lucas Yantis - United States Air Force Academy

"Issues in Refugee Adaptation after Resettlement"

Natasha Byrd - Utah Valley University

"Activism and ARMY's: K-Pop as Political Engagement in Transnational Advocacy"

Patricia Brigitte (Georgie) Suico - California State University - Long Beach

CTLB 300

### HISTORICAL ANALYSIS:

"Veiled Patriarchy: Vestal Priestesses as the Ideal Roman Woman"

Ashley Burton - University of Portland

"The City of Heroes: The Image of Mariupol in Post-Maidan Ukraine"

Daniil Tourashev - United States Air Force Academy

"British Sailors of the 18th Century: Art on the Frontier of the Atlantic World"

Alexander Runyan - University of Nevada - Reno

CTLB 330

### BUSINESS:

"From Then to Now: Financial Planning & Ideas of Wealth"

Mariah Ramirez - California State University - Long Beach

"NEXT: An Acknowledgment of the Exotic and the Familiar"

Sarah Pascarella - California State University - Long Beach

"Fintech Literacy, Community and Student Loans"

Andee Gonzalez - California State University - Long Beach

CTLB 130

### HEALTH:

"The Damaging Intersectional Rhetoric between Abortion and Pregnancy Loss"

Kiesa Keller - Utah Valley University

"Healthcare in the United States: A Disparity in Equitable Access"

Spenser Golon - Scottsdale Community College

"Mental Health is for You! Health and Wellness for Everyone"

Samara Rangel - Southern Utah University

GSM 128

### HONORS EDUCATION I:

"Mindfulness, the Environment, and Creative Nonfiction Writing:

A Multidisciplinary Intersection"

Annie Lampman - Washington State University

"The Pedagogy of James Baldwin: What Undergraduate Peer Educators Stand to Learn from Emancipatory Learning Processes"

Arwen Baxter - University of Montana

GSM Upstairs

# SATURDAY, APRIL 9TH

## LUNCH MENU

Three food trucks will be available for your lunch selection. Your lunch ticket is valid for one meal at one of the vendors. A volunteer will collect your ticket when you order. Drinks will be available in nearby coolers.

### KIMO'S HAWAIIAN BBQ

Teriyaki Chicken Plate with Rice  
+ choice of mac salad OR garden salad

Teriyaki Beef Plate with Rice  
+ choice of mac salad OR garden salad

· Kalua Pork Plate with Rice  
+ choice of mac salad OR garden salad

### CORN BREADS

Shrimp Burger  
+ with chips

Street Tacos  
+ with lime wedges

Hot Wings  
+ with carrots and celery

### BLAXICAN COCINA

Taco Plate  
4 tacos: regular size corn tortilla with chicken served with onion, cilantro, lime, grilled onions, jalapeño toriado, and chile tatemado

Vegan Plate\*\*  
beans, rice, tortillas, salsa, and grilled onion

Quesadilla\*  
12" flour tortilla folded in half with asadero cheese and meat of choice. Served with sour cream and chile

Loaded Nachos\*  
Corn chips topped with nacho cheese, beans, meat of choice, onion, cilantro, and jalapeños.

\* Vegetarian options available

\*\* Vegan options available

# SATURDAY, APRIL 9TH

## SESSION FOUR: 1:30 PM - 2:20 PM



## SESSION FOUR: 1:30 PM - 2:20 PM

### WORKSHOP 9: "Food and Housing Insecurity in Higher Education"

Sarita Cargas - The University of New Mexico  
Marygold Walsh-Dilley - The University of New Mexico  
Kyla Fugate - The University of New Mexico  
Kiana Frederick - The University of New Mexico  
HC 1040

### WORKSHOP 10: "Electric Thread: The Future of Functional Fashion"

Colleen McCullouch - Colorado School of Mines  
HC 1020

### "From Student to Instructor: Creating and Presenting a Digital Literacies Course to Older Adults"

Jacob Johnson - University of Nevada - Reno  
Amber Thaxton - University of Nevada - Reno  
Alina Evans - University of Nevada - Reno  
HC 1004

### "From Reflection to Action— Honors First Year Course"

Timothy Nichols - University of Montana  
Mattie Budine - University of Montana  
Daazhrai Alexander - University of Montana  
Kylie Crist - University of Montana  
Judah Garcia - University of Montana  
Sarah Hibbard - University of Montana  
Kevin Northey - University of Montana  
Hope Sampson - University of Montana  
CTLB 230

### COVID-19 STUDIES: "Investigation of the Peptide Binding Groove in Mutations of the Human Immunological Protein HLA-B27 and How That May Impact SARS CoV-2 Binding Interactions"

Liesl Jensen - Metropolitan State University of Denver

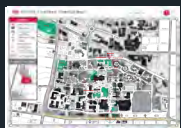
### "The Impact of Inequitable Distribution of Ventilators for COVID-19 Treatment on Non-White Population within the U.S."

Jennifer Kepler - University of Portland

### "Higher Education Response to Challenges during the COVID-19 Pandemic"

Luke Byram - University of Washington - Tacoma  
CTLB 210

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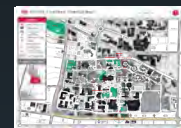


TO VIEW MAP

# SATURDAY, APRIL 9TH

## SESSION FOUR: 1:30 PM - 2:20 PM

CLICK HERE



TO VIEW MAP

**POLITICAL HISTORY:** "A Brief History of Graphs"  
Nishaad Trivedi - Chapman University  
"Abolishing the Monarchy in Fantasy Fiction"  
Vikram Branch - Chapman University  
CTLB 300

**MEDICAL SCIENCE:** "The Role of GM1 Gangliosides on Dendritic Growth Regulation in Sympathetic Neurons"  
Joshua Galla - Saint Mary's College of California  
"Exploring How Topical Intracellular Phosphodiesterase Inhibitors Can Impact Immune-Mediated Inflammatory Skin Diseases"  
Margaret DiRuggiero - United States Air Force Academy  
"Pyllelic: A Software Suite for Examining Allelic DNA CpG Methylation Patterns in Genomic Datasets"  
Dylan Poch - Metropolitan State University of Denver  
CTLB 330

**COLLEGE EXPERIENCE:** "Mentorship in Creative Writing Programs: Helping Students Find Their Genre"  
Callie King-Stevens - Southern Utah University  
"Analyzing How Practical Are the Writing Tutoring Sessions in ESL Students"  
Jessica Ducuara - Salt Lake Community College  
"Being Visible in Vital"  
Alexandra Hutchinson - Southern Utah University  
CTLB 130

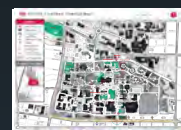
**SOCIAL JUSTICE II:** "Perceptions of Gender and Racial Equity in the University of Montana Athletics"  
Beatrix Frissell - University of Montana  
"Thoughts of a Teenager: A Collection of Poetry about the Contemporary Teenage Experience"  
Madison Kleinrock-Andrews - University of Nevada - Las Vegas  
"Witness Preparation for the Female Rape Victim"  
Cassie Gibbs - Metropolitan State University of Denver  
GSM 128

**HONORS EDUCATION II:** "Better Access, Improved Transfer: Evolving a Community College Honors Program"  
Chris Prentice - Central New Mexico Community College  
"Amplifying Honors Education with ePortfolio"  
Kathy Tran-Peters - Salt Lake Community College  
GSM Upstairs

# SATURDAY, APRIL 9TH

SESSION FIVE: 2:30 PM - 3:20 PM

[CLICK HERE](#)



[TO VIEW MAP](#)

## SESSION FIVE: 2:30 PM - 3:20 PM

### WORKSHOP 11: "Wicked Stories: Empathy Exhibitions"

Jennifer Kinch - Colorado School of Mines

HC 1040

### WORKSHOP 12: "Presenting Culture Shock in Refugee Populations"

Kiera O'Hara-Heinz - St. Mary's College of California

HC 1020

### "Cramming Interdisciplinarity into Seven Weeks: Lessons Learned from UA Honors Catalyst Seminar"

Claire McLane - University of Arizona

Jennie McStotts - University of Arizona

HC 1004

### SCIENCE II: "Clustering Techniques in the Hadronic High Mass Pair Search"

Dariusz Imani - University of California - Davis

"Searching for Life Below the Ice: The Fate of Organic Compounds in Ocean Worlds"

Jack Diab - Southern Oregon University

"Nanoparticles: Potential Future of Cancer Treatment and Diagnosis"

Diana Gonzalez - Mt. San Antonio College

CTLB 230

### SOCIAL "Expanding the Awareness of and Evaluating the Prevalence of Adverse Childhood

ISSUES: Experiences in the Sikh Community"

Harjeet Mann - University of California - Davis

"Culture, Health, and Clean Water: An Exploratory Study into Waterborne Diseases in the Philippines"

Leticia Lourdes Yutuc - Southern Utah University

"Impacts and Treatment of Historical Trauma"

Jolie Martin - Utah Valley University

CTLB 210

### SOCIAL "Language in the Social Cybersphere"

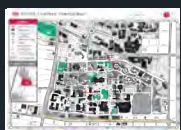
MEDIA: Dakota Brown - University of Idaho

"We Live in a Society: Meme, Irony, and Postmodernism"

Francis Packard - The University of New Mexico

CTLB 300

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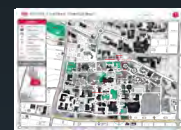


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# SATURDAY, APRIL 9TH

## SESSION FIVE: 2:30 PM - 3:20 PM

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TO VIEW MAP

**CULTURE IN SOCIETY:** "Misrepresentation of Native Americans in Media"  
Jeanette DeDios - The University of New Mexico

"Between the Church and State: A Brief Examination of Rule, Identity, and Development in Mexico"

Hugo Peralta Ramirez - MiraCosta College

"The True Essence of Vanitas Art"

Lucas Yantis - United States Air Force Academy

CTLB 330

**SOCIAL JUSTICE III:** "We Got Us: An Institutional Ethnography of Community Centered Collaboration in Albuquerque Grassroots Justice Movements"  
Monserat Rodriguez-Rico - The University of New Mexico

"Access Matters: Disability in the Outdoors"

Eleanor Jeffers - Whitworth University

"The Role of Disability Cultural Centers in Creating a Supportive and Transformational Experience for Students with Disabilities"

Zane Landin - California State Polytechnic University, Pomona

CTLB 130

**EDUCATION:** "Paid Internships for Biology Students: A Growing Need"  
Sarah Forsberg - Southern Utah University

"Experienced Educators' Reflection on Mathematics Teaching and Learning"

Allison Kim - California State University, Long Beach

GSM 128

**RELIGION AND CULTURE:** "Religion and Recreational Pole Dancing"  
Any Smith - University of Montana

"'To Fear Our Tears or to Suppress Our Anger': How the American Evangelical Church Contributes to the Loss of Identity in Chicanas"

Christy Frederick - The University of New Mexico

"Aztlán Ahora"

Ailin Gallart Martin - The University of New Mexico

GSM Upstairs



# SATURDAY, APRIL 9TH

## SESSION SIX: 3:30 PM - 4:20 PM



## SESSION SIX: 3:30 PM - 4:20 PM

### WORKSHOP 13: "Art of Inquiry: Practices in an Honors Research Methods and Ethics Course"

Holly Riley - University of Montana  
Lauren Collins- University of Colorado, Boulder  
Anya Smith - University of Montana  
Beatrix Frissell- University of Montana  
HC 1040

### WORKSHOP 14: "Everyone Needs a Mentor: An Open Discussion of the Mentorship Program Design with the Pathmaker Program"

Matthew Goldman - The University of New Mexico  
Ryla Cantergiani - The University of New Mexico  
Katie James - The University of New Mexico  
Julia Flores- The University of New Mexico  
HC 1020

### "Diversify the Honors College. Now What?': Equitable Inclusion and Indigeneity in the Honors College at SOU"

Cherstin Lyon - Southern Oregon University  
Warren Hedges - Southern Oregon University  
Tasi Pereira - Southern Oregon University  
Tiana Gilliland - Southern Oregon University  
HC 1004

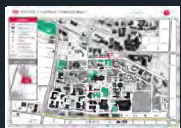
### "COVID-19's Impact on University of Montana Students"

Trinity Holden - University of Montana  
Sebastian Driver - University of Montana  
Sandee Sepulveda - University of Montana  
CTLB 230

### "Food Insecurity Among College Students: Honors Student Projects"

Veronica Montoya - The University of New Mexico  
Amiah Dutra - The University of New Mexico  
Julio Chavez - The University of New Mexico  
CTLB 210

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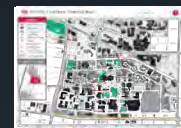


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# SATURDAY, APRIL 9TH

SESSION SIX: 3:30 PM - 4:20 PM

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TO VIEW MAP

**CLINICAL STUDIES:** "Significance of the Translation Initiation Machinery Recruiting Structures in the Blackcurrant Reversion Virus RNA 1"

Julie Lee - Metropolitan State University of Denver

"Meeting of the Minds: Discovering Spatial Structuring of Brain through Mathematical Biology"

Clare Spinner - University of Portland

"Clinically Relevant SMAC Mimetics Do Not Enhance Human T Cell Proliferation or Cytokine Production"

Ashley Burton - University of Portland

CTLB 300

**CLIMATE** "Sol Technology"

**CHANGE:** Pamela Trujillo - California State University - Northridge

"Trypanosoma Cruzi in the Face of Climate Change: Current and Future Directions for Treatment and Research"

Zoe Kellermeyer - University of Portland

"Collective Environmentalism"

Diana Chinenkova - The University of New Mexico

CTLB 330

**IDENTITY:** "Perceptions of Okinawan Self-Identity as Shaped through War and Continued Military Occupation"

Jeffrey Sapp - Metropolitan State University of Denver

"Constructing Complex Identities as Chinese Adoptees"

Kelli Nakamura - California State University, Long Beach

"The Shape of Consciousness: Eastern Mysticism, Modern Physics, and Existential Pragmatism"

Michael Gynn - Dixie State University

CTLB 130

**ART AND** "The Politics of Superman"

**SOCIETY:** Andrew Schumann - The University of New Mexico

"Resonance of Opportunity: An Exploration of El Norte (1983)"

Raina Harper - The University of New Mexico

"What Does a Woman See When She Walks through a Museum?"

Natalie Rovello - The University of New Mexico

GSM 128

# POSTER GROUP A: 11:00 AM - 11:50 AM

## JACKSON STUDENT CENTER

1	Jared Gomez	"Barriers to Access Affirming Care for Transgender and Gender Non-Conforming People of Color; A Snapshot of Inequity and Oppression."
2	Elizabeth Sheber	Search by Sign: An ASL to English Language Dictionary App
3	Melina Liedtke	Genetic Monitoring for the Endangered Sonoran Pronghorn ( <i>Antilocapra americana sonoriensis</i> )
4	Louise Holland	Awareness and Communication of On-Campus Mental Health Resources: A Comparison Study of Fort Lewis' Counseling Center
5	Amaya Holliday, Kennedy Gleim	Restorative Justice and Sexual Misconduct
6	Cassidy Goering, Connor Alcorn	Academic Integrity in the Digital Age: A Restorative Justice Model at Fort Lewis College
7	Jess Dorn	A Restorative Justice Approach to Academic Disqualification
8	Austin Quintero	"When You Wish Upon a Star": The Magic of Stars in Disney Films
9	Felicia Song	Simultaneous Comparison of Intraoperative Brain Function Monitoring: Sedline and BIS on Depth of Sedation
10	Stephen Fawcett	Characterization of Novel Cell Lines
11	Noor Naji	Marfey's Reagent to Derivative D-Alanylglycine in Plants for Quantification via HPLC-UV
12	Katie Gilbertson	The Future of the Live Entertainment Tax in Southern Nevada
13	Manette Perez	Being Pregnant in Systemic Oppression
14	Dorothy Elder	Investigative Journalism: Examining an essential democratic guardrail
15	Jose Hernandez-Romero	Screening of Magnetic Nanoparticles for Magnetic Hyperthermia Application by Finite Element Method
16	Justine Lauren Constantino	The Role of Emotions in the Encoding and Retrieval of Memories

## POSTER GROUP A: 11:00 AM - 11:50 AM

### JACKSON STUDENT CENTER

17	Maya Shattuck	Effects of $\Delta 9$ -Tetrahydrocannabinol on Embryonic Growth and Development
18	Christian Aquino	The impact of teaching about patterns of human variation on nonbiology major students' views of human races
19	Hannah Taylor	Community for Students, By Students
20	Jevahjire France	Educational Equity for English Language Learners (ELLs)
21	Emma Crowe	A Feminist Critique of J.M. Coetzee's Waiting for the Barbarians: How One Piece of 1980's Literature Continues to Perpetuate Misogynistic Ideology
22	Clara Ehinger	Mobile and Remote Air Quality Sensing Technology for Sustainability
23	Emma Ziegler	Who Were Freya and Frigg?
24	Bridgit Lujan	Flamenco and Environmental Justice
25	Rachael Buffett	Hacks: A Revolutionary Take on Feminist Comedy
26	Spenser Willden	Housing Honors
27	Karel Aceituno	Fmoc-amino Acid Inhibition of Butyrylcholinesterase
28	Peter Grema	Nevada's Workforce Development Agenda and Community College Governance: A Comparative Analysis of the Mountain West

# POSTER GROUP B: 1:30 PM - 2:20 PM

## JACKSON STUDENT CENTER

- |    |                                     |   |
|----|-------------------------------------|---|
| 1  | Sela Zakula                         | Economic Class Impact on Eating Disorder Development  |
| 2  | Ethan Masse                         | Computer Algebra Systems  |
| 3  | Brian Rogers                        | Toward Complementary Metal Oxide Semiconductor (CMOS) based secure communication with low power chaos implementation  |
| 4  | Amy Norzagaray                      | The Physics of Blood Clots  |
| 5  | Dhanush Karthikeyan                 | Topology Driven Virality Detection in Malicious Cascades  |
| 6  | Jonah Lindsey                       | Fostering Student Engagement in Science and Discovery via the Western Harvester Ant ( <i>Pogonomyrmex occidentalis</i> ).   |
| 7  | Maranda Hernandez                   | Analysis of successful completion of endurance horses undergoing the Tevis Cup 160-km ride from 2005 to 2021  |
| 8  | Adrienne Dizon                      | COVID-19 Impact on Relational Intimacy and Relationship Satisfaction  |
| 9  | Zoe Walker                          | Diabetes Prevention Through Lifestyle Changes in African American Women   |
| 10 | Matteya Proctor,<br>Caitlin Ottaway | Sleep Loss and Risk-Taking: An Integrative Review   |
| 11 | Minerva Melendrez                   | Understanding Latinx Political Heterogeneity through the Lens of Linked Fate: The Contributing Effects of Country-of-Origin, Citizenship Status, and Political Partisanship |
| 12 | Olivia Cheche                       | Perceived Racial Discrimination, Black Lives Matter, and Political Participation in 2020  |
| 13 | Riley Zemlicka                      | Picture Memory Study  |
| 14 | Natalie Teeter                      | The Rise of Alternative Healing Methods in the United States  |

## POSTER GROUP B: 1:30 PM - 2:20 PM

### JACKSON STUDENT CENTER

15	Emma Phillips	Assessment of Communication Effectiveness in Computer-Mediated Therapy vs. Face-to-Face Therapy
16	Mackenzie Zappe	Analysis and Prevention of Security Vulnerabilities in a Smart City
17	Melita Mehzabin	Who cares, and why do they? Understanding a covert care force of relatives, friends, and neighbors providing child care in the USA
18	Alexandra Kraft	Consensually Non-Monogamous Relationships: Shedding Light on Their Intriguing Benefits
19	Georgina Ocegüera	Utilizing CRISPR-Cas9 to determine the role of Thioredoxin in HIV-1 Nef mediated infectivity
20	Nathan Pereira	Implicit Bias in UX Research Methodologies
21	Eliza Wenger	Rights to Starry Nights
22	Emily Taylor	Post-Traumatic Growth: A Paradigm for Psychological Change
23	Justin Pilgrim	Universal, Soft Scalable Actuator Module (USSAM)
24	Daniel Romero	Air Quality Evaluation on I-210 Freeway Before-and-After Safer-at-Home Order during the COVID-19 Pandemic
25	Shivani Kapadia	Uner Tan Syndrome
26	Paul Didham	An Exploration of Personality, Subjective Well-being, and Behaviors in the Nomological Network of Trait Boredom: A Meta-Analysis
27	April Vihilidal	The Constellations of 1) Orion, 2) Taurus where in the Pleiades reside, 3) Boötes, 4) Ursa Major and the encoding of Celestial Events in the Odyssey by Homer
28	Syeda Jamshed	Climbing the Social Ladder: Asian American Education and Social Mobility across the United States

# DESCRIPTIONS

**Karel Aceituno** - California State University, Long Beach

"Fmoc—amino Acid Inhibition of Butyrylcholinesterase"

Protein—inhibitor docking simulations of Fmoc—amino acid derivatives were performed to identify interactions within the butyrylcholinesterase binding pocket to accompany experimental results that have applications towards therapeutics for Alzheimer's Disease.

**Bethany Applegate** - University of Montana

"Davidson Honors College — Honors Pathways Project"

The Davidson Honors College's Honors Pathways Project provides a template for academic programs and departments at University of Montana to chart an academic trajectory for honors students that preemptively identifies overlapping coursework and experiential opportunities that simultaneously meet degree requirements and honors requirements.

**Christian Aquino** - California State Polytechnic University, Pomona

"The impact of teaching about patterns of human variation on nonbiology major students' views of human races"

The purpose of this study is to address misconceptions about socio—political race by assessing whether a scientific curriculum on patterns of human diversity affects undergraduate non—biology majoring students' understanding of the biological aspects of race and genetics.

**Laura Barraza** - Mt. San Antonio College

"Masks on pollution and CO2 levels"

My research is an investigation on how disposable masks vs reusable masks impact our environment. Due to the pandemic the U.S has had a huge spike in mask production and usage. This has not only made a huge impact on a persons lifestyle but also our environment.

**Arwen Baxter** - University of Montana

"Keening Underwater"; An Ecocritical Reframing of Ethical Considerations for Aquatic Organisms"

Climate Change, ecological deterioration, and unsustainable resource uses threaten the aquatic world. This interdisciplinary project outlines a history of perceptions of aquatic life from philosophical, ecocritical, and ecological vantage points, and explores how our thinking needs to evolve to protect such creatures from extinction and ethical mistreatment.

The Pedagogy of James Baldwin; What Undergraduate Peer Educators Stand to

"Learn from Emancipatory Learning Processes"

This talks explores educational paradigm shifts advocated for by James Baldwin and how his characterization of education as revolution divergent from societal expectations; a process of "Enlarging one's world," might be reflected and amplified through peer teaching initiatives such as Learning Assistant programs.

**Genesis Benedith** - Pima Community College

**"Increasing Emotional Intelligence"**

Given that the promotion of emotional intelligence will be the factor for success in education and future life of students and community members, this presentation will be based on the effect of training of self—care behaviors on the emotional intelligence of college students Pima Community College.

**Kylla Benes** - University of Montana

**"Crafting Personal Statements for Scholarships"**

Learn how to craft an effective and engaging personal statement that you can use for applications to scholarships, graduate school, and more. We'll also highlight some of the major upcoming scholarships.

**"Integrating Personal and Professional Development in the Honors Experience: The Student Perspective"**

Join us for the student perspective on personal and professional development in and outside of the classroom. The Davidson Honors College strives to give students tools they can use well beyond college, and we've done this through classes and experiential learning around career development, community engagement, and scholarship advising.

**Vikram Branch** - Chapman University

**"Abolishing the Monarchy in Fantasy Fiction"**

Many fantasy works still promote monarchical values even as democratic republics have become a more accepted model of governance. To advance as republics, questioning the values of these popular works is necessary. This project critiques monarchical values in the fantasy genre and suggests potential norms for pro—democratic fantasy fiction.

**Andrew Brands** - California State Polytechnic University, Pomona

**"Financial Literacy and Borrowing Behavior in Different Age Groups"**

This honors research project contributes to the growing literature on financial literacy by examining the factors that affect financial literacy among different ages, genders, and racial groups. The research explores the contributors to financial literacy differences and the impacts financial literacy has on various borrowing behaviors.

**Dakota Brown** - University of Idaho

**"Language in the Social Cybersphere"**

Have you ever wondered why we portray our online selves differently from the real—life version? This presentation aims to give multiple perspectives from social media users about their online language habits. Come learn about the language used to network within social circles online and compare it to the real world.

**Rachael Buffett** - The University of New Mexico

**"Hacks: A Revolutionary Take on Feminist Comedy"**

I look specifically at the 2021 comedy television show, Hacks, with a feminist lens; in examining this media, I want to look towards traditional comedic theory and apply it to content that is women—driven. With artwork and research guiding my presentation, I will show the power of feminist comedy today.

**Ashley Burton** - University of Portland

**"Clinically relevant SMAC mimetics do not enhance human T cell proliferation or cytokine production"**

SMAC mimetics are being tested in dozens of clinical trials to treat cancer and have been suggested to activate human T cells, thereby promoting anti—tumor immunity. This study looks at the effect of three clinically relevant SMAC mimetics on the proliferation and activation of primary human T cells.

**"Veiled Patriarchy: Vestal Priestesses as the Ideal Roman Woman"**

The religious cult of the Vestal Virgins spanned the entirety of the Roman Empire and placed the priestesses in an elevated position in Roman society. Due to this position Vestals represented a social ideal for Roman women that was put in place by the patriarchy to champion chastity and obedience.

**Luke Byram** - University of Washington, Tacoma

**"Higher Education Response to Challenges during the COVID—19 Pandemic"**

Experience the COVID—19 pandemic from the views of faculty members, and the experience of students in a discussion on higher education response to the pandemic. Discover the impact of the global supply chain on higher education. Learn about challenges, successes, and lessons learned because of the pandemic and remote learning.

**Natasha Byrd** - Utah Valley University

**"Issues in Refugee Adaptation After Resettlement"**

This paper presents the challenges refugees—Asylum Seekers have when they arrive to a resettlement country. These topics include cultural adaptation, mental health, education, women and religious persecution. Refugees come from home security to uncertainty, and must learn to navigate a new system to support their families, a new language, etc.

**Abigail Campbell** - The University of New Mexico

**"The Ins and Outs of Submitting to a Magazine with the Scribendi Staff"**

Join members of the Scribendi staff as they lead you through the process of submitting to and being published in a magazine. From finding the right magazine to submit to, copyediting, and the process of layout and design you will get a look at what goes on behind the curtain.

**Sarita Cargas** - The University of New Mexico

"Food and Housing Insecurity Among Students in Higher Education"

This interactive workshop will focus on ameliorating basic needs insecurity (food and housing) among college and university students. Researchers (students and faculty) from the Basic Needs Project at the University of NM will share data and tools for assessing and addressing the problem on college campuses: our survey and solutions.

**Kristen Chastain** - University of California, Irvine

"Magic, Mythology and Mediation: W.B. Yeats' Symbolic Vision of Ireland"

I will explore the construction of a symbolic system in W.B. Yeats' *A Vision*, using an intertextual analysis of his poetry and plays to analyze the role Celtic bodies play in bringing the Irish Nationalist movement to the global stage.

**Olivia Cheche** - University of Nevada, Las Vegas

"Perceived Racial Discrimination, Black Lives Matter, and Political Participation in 2020"

This study investigates how Black Lives Matter protests and perceived racial discrimination influence political participation. Individual—level survey responses are matched with data on protest locations. Regression models test the effects of the independent variables on political engagement. The interactive effect between protests and perceived racial discrimination is also tested.

**Prakash Chenjeri** - Southern Oregon University

"Honor's Curriculum: A Logical Necessity"

Building on the assumption that logic has to be a critical, intentional, and integral part of any honors curriculum, if we are to prepare a thoughtful citizenry, this panel presents an overview of a standalone sophomore seminar series in the subject developed in the Honors College at Southern Oregon University.

**Diana Chinenkova** - The University of New Mexico

"Collective Environmentalism"

My research examines the importance of utilizing group mentality and social identity in the fight against climate change. I discuss the psychology of collective action and how this can have impact on local and global levels. It will furthermore contend the importance of strengthening the political identity of an environmentalist.

**Justine Lauren Constantino** - Mt. San Antonio College

"The Role of Emotions in the Encoding and Retrieval of Memories"

This literature review will analyze the role of emotions (specifically, emotions related to positivity and negativity) and their role in the encoding and retrieval of memories.

**Tessa Conti** - Metropolitan State University of Denver

**"Healing Harmonies: The Benefits of Music Therapy For Mental Health"**

Along with being something many of us hold dear, music can also be used to improve your mental wellbeing through the practice of music therapy. Come learn about the science behind music therapy and build a repertoire of tools that can be used to better your mental health!

**Emma Crowe** - Central Washington University

**"A Feminist Critique of J.M. Coetzee's Waiting for the Barbarians: How One Piece of 1980's Literature Continues to Perpetuate Misogynistic Ideology"**

In a poster presentation titled, A Feminist Critique of J.M. Coetzee's Waiting for the Barbarians: How One Piece of 1980's Literature Continues to Perpetuate Misogynistic Ideology, Emma Crowe will analyze and discuss the representation of women in the aforementioned novel and the ways in which that representation is harmful.

**Zachary Curd** - United States Air Force Academy

**"Hypersonics: A Nondistant Regime"**

This oral presentation will discuss the current state of hypersonics, the United States' history with regard to hypersonics, current capabilities, and the need for a new hypersonic test vehicle.

**Jeanette DeDios** - The University of New Mexico

**"Misrepresentation of Native Americans in Media"**

The long tradition of misrepresenting Native Americans in media depicts them as racist and stereotypical figures in both television and film. By offering realistic portrayals of Native Americans in media, we can bring this suppressed race to the modern era that offers a positive and accurate portrayal to the masses.

**Jack Diab** - Southern Oregon University

**"Searching for Life Below the Ice: The Fate of Organic Compounds in Ocean Worlds"**

Water is an integral component in the generation of life as we know it. The search for biological compounds is an active research topic in planetary bodies containing global oceans known as Ocean Worlds. This presentation presents the importance, challenges, and current state of such research.

**Paul Didham** - California State University, Long Beach

**"An Exploration of Personality, Subjective Well—being, and Behaviors in the Nomological Network of Trait Boredom: A Meta—Analysis"**

This study investigated three aspects of conflicting findings within the trait boredom literature. First, how does trait boredom interrelate to the big five personality traits; second, how does trait boredom relate to subjective well—being; and lastly, does trait boredom influence behaviors. To do so, we conducted a meta—analysis.

**Sophie Dinning** - University of Nevada, Reno

"The United States Military's Role In Pakistan and India's Continually Strained Relationship in Political, Economic, and Social Engagements, Post War on Terror"

The US has been involved in military counterterrorism efforts in Pakistan since the country's founding. Historically, this had created tension in the relationship between India and Pakistan in a social, political, and economic sense. Explore the new influence the US Military will have in the region, post War on Terror.

**Margaret DiRuggiero** - United States Air Force Academy

"Exploring How Topical Intracellular Phosphodiesterase Inhibitors Can Impact Immune—Mediated Inflammatory Skin Diseases"

A meta—analysis exploring how the blockade of intracellular phosphodiesterase—4 (PDE—4) increases cyclic adenosine monophosphate (cAMP) and subsequently downregulates inflammatory cascades associated with immune—mediated inflammatory skin diseases, specifically psoriasis and atopic dermatitis.

**Adrianne Dizon** - University of Nevada, Las Vegas

"COVID—19 Impact on Relational Intimacy and Relationship Satisfaction"

This research project aims to understand economic, social, and public health—related consequences of the COVID—19 pandemic on relationships. Overall, social isolation has been the main culprit affecting couples' intimacy and satisfaction during this period. This work provides a vital discussion on the short—term and long—term implications of social isolation.

**Jessica Ducuara** - Salt Lake Community College

"Analyzing how practical are the Writing tutoring sessions in ESL students"

In SLCC, one of the most important goals is to assure the effectiveness of the tutoring programs offered to the students, including the ESL students. The purpose is to collect data through a survey and compare how practical are the tutoring session and continuously improve its results.

**Clara Ehinger** - Washington State University

"Mobile and Remote Air Quality Sensing Technology for Sustainability"

An inexpensive, compact, and mobile sensor was developed to remotely monitor air quality. This sensor can help create detailed maps of air quality through the deployment of a network of these inexpensive devices. This system could also facilitate multidisciplinary research into human health and environment as pertains to air quality.

**Dorothy Elder** - Fort Lewis College

"Investigative Journalism: Examining an essential democratic guardrail"

Through a historical case analysis in which a story by the press has revealed government exploitation and interviews with investigative reporters, this project analyzes the efficacy of investigative journalism as it appears in different forms, scopes, and contexts to better understand the current condition and future function of investigative journalism.

**Stephen Fawcett** - Washington State University

**"Characterization of Novel Cell Lines"**

This project is designed to describe two novel cell lines derived from live animal tissue and their potential applications in a laboratory setting. These cell lines are from *Carrollia perspicillata* (short tailed bat) and *Peromyscus maniculatus* (deer mouse). Potential applications include easier and more accessible approaches to studying viruses.

**Hannah Flamm** - Fort Lewis College

**"A Restorative Justice Approach to Academic Disqualification"**

Academic Disqualification at Fort Lewis College is a punitive system. The goal is to change this to a restorative justice system. Students should have more accountability and involvement in the Academic Disqualification policy. There needs to be more communication and resources provided for students.

**Sarah Forsberg** - Southern Utah University

**"Paid Internships for Biology Students: A Growing Need"**

This presentation highlights the numerous challenges faced by nonmedical biology students seeking job experience, proposing paid internship programs offered by universities as a possible method to ease some of the burden on aspiring biological scientists, wildlife managers, and conservationists.

**Jevahjire France** - Salt Lake Community College

**"Educational Equity for English Language Learners (ELLs)"**

This presentation will address how our educational system is not equitable in terms of meeting the needs of English Language Learner (ELL) students. I will discuss how intersectionality is crucial in not only examining the biases and inequities, but also important in providing solutions in meeting ELL student needs.

**Christy Frederick** - The University of New Mexico

**"To Fear Our Tears or to Suppress Our Anger": How the American Evangelical Church Contributes to Loss of Identity in Chicanas"**

This presentation will address how women of color experience colonization within the predominantly white Evangelical Church and how the Evangelical Chicana identity as a liminal space allows Evangelical Chicanas to move beyond the pressure to choose between faith or culture and embrace both.

**Kiana Frederick** - The University of New Mexico

**"Food Insecurity Among College Students: Honors Student Projects"**

Honors students from the University of NM Honors College will present the projects they designed for a human rights course which focused on food insecurity in higher education. They each combined research and advocacy to produce a tool for ameliorating it.

**Beatrix Frissell** - University of Montana

**"Perceptions of Gender and Racial Equity in University of Montana Athletics"**

This study analyzes the perceptions of diversity and equity within University of Montana Athletic Department by performing semi—structured interviews with athletic leadership and coaches. Transcripts of interviews are analyzed for themes to find factors that contribute to inequity and research is applied by proposing solutions within the department.

**Joshua Galla** - St. Mary's College of California

**"The Role of GM1 Gangliosides on Dendritic Growth Regulation in Sympathetic Neurons"**

This presentation explores research performed during the summer of 2021 with the Saint Mary's College of California Summer Research Program, discussing the methodology, results, and importance of studying the function of GM1 gangliosides on dendritic growth regulation in sympathetic neurons of the peripheral nervous system.

**Martin Ailin Gallart** - The University of New Mexico

**"Aztlán Ahora"**

Aztlán is a very beautiful thing to all sorts of people. What once started as a myth, has become a way of life, and a way of mind. In my Essay, I discuss the current standing of Aztlán as it affects its young generations.

**Cassie Gibbs** - Metropolitan State University of Denver

**"Witness Preparation for the Female Rape Victim"**

This presentation will explore the finding of a literature review and Action—Based Research Project looking to produce useful information addressing the most effective ways to aid female rape victims in trial settings and facilitate forensic psychologists, along with other witness preparation experts, in providing help to this vulnerable population.

**Katie Gilbertson** - University of Nevada, Las Vegas

**"The Future of the Live Entertainment Tax in Southern Nevada"**

The Live Entertainment Tax (LET) in Nevada generated nearly one billion dollars during the 2019—2020 fiscal year. Clark County generated 97% of that funding, yet it all funnels to the State General Fund. Lawmakers should remedy this asymmetric allocation so Las Vegas can remain the Entertainment Capital of the World.

**Cassidy Goering** - Fort Lewis College

**"Academic Integrity in the Digital Age: A Restorative Justice Model at Fort Lewis College"**

An action research project on how Fort Lewis could implement a restorative justice system that would encourage students to recognize and accept the consequences of breaking the academic integrity policy to rebuild trust and confidence between the student and the community.

**Matthew Goldman** - The University of New Mexico

"Everyone Needs a Mentor: An Open Discussion of Mentorship Program Design with the Pathmaker Program"

Come to learn about the Honors Pathmaker Program, a mentorship program for all first—year students at University of New Mexico's Honors College. Stay to participate in an open discussion about building and growing mentorship programs. Share what strategies currently work for you in meeting evolving student needs.

**Spenser Golon** - Scottsdale Community College

"Healthcare in the United States: A Disparity in Equitable Access"

This oral presentation covers the current disparity in equitable access of healthcare in the United States, specifically among low—income families. Research findings will be presented in the order of an introduction/background, points of exigence, current solution proposals, and a unique solution set.

**Jared Gomez** - Salt Lake Community College

"Barriers to Access Affirming Care for Transgender and Gender Non—Conforming People of Color; A Snapshot of Inequity and Oppression."

A poster and oral presentation examining the systemic, systematic barriers Trans People of Color face accessing gender—affirming healthcare and the cultural, structural, and direct violence directed at Trans POC in America today.

**Andee Gonzalez** - California State University, Long Beach

"Fintech Literacy, Community and Student Loans"

This is a series of studies examining financial literacy when lending online, experiences with credit cards and student loans, and examining pro—social P2P lending in English and Spanish using data from a Hispanic Serving Institution (HSI), California State University Long Beach (CSULB).

**Diana Gonzalez** - Mt. San Antonio College

"Nanoparticles: Potential future of cancer treatment and diagnosis"

This literature review compares and contrasts the effectiveness of chemotherapy versus nanoparticle technology in cancer treatments. It will explain the difference in how each treatment is applied once done on a patient.

**Rachel Gravina** - Pima Community College

"Terrorism, Trauma and Cultural Identity"

My research was conducted while part of a larger group project labeled Terrorism, Trauma, and Cultural Identity. I will be speaking on my research which focused on how trauma impacts individuals as well as society. Questions will be asked for the audience as well as a sharing circle.

**Peter Grema** - University of Nevada, Las Vegas

**"Nevada's Workforce Development Agenda and Community College Governance: A Comparative Analysis of the Mountain West"**

Suggestions to rebuild Nevada's economy following COVID—19 include policy reforms that provide residents with opportunities to train for technical careers. I analyze and compare Nevada's workforce development structure and the role community colleges play in economic outcomes with the peer Mountain West states of Arizona, Colorado, New Mexico, and Utah.

**Gabriel Gurule** - The University of New Mexico

**"Solving The Issue of Inefficiency for Multiple Faceted Variable Energy Systems"**

This project studies inefficiency in multiple faceted variable systems. These systems are composed of multiple energy—generating technologies such as wind and solar into different hybrid devices and their applications. This project also researches sustainable manufacturing processes and the accessibility of these renewable energy technologies around the world.

**Michael Guynn** - Dixie State University

**"The Shape of Consciousness: Eastern Mysticism, Modern Physics, and Existential Pragmatism"**

In this paper I explore the origins of human consciousness and its intimate connections to language. Next I discuss the limits of symbolic thought in science using examples from modern quantum physics. Lastly, I draw connections between physics and Eastern mystical traditions which seek to transcend language altogether.

**Aleece Hanson** - California State University, Long Beach

**"Attitudes Towards the Treatment of Prisoners"**

The prison population in California suffers from increasingly hot temperatures in the summer. Along with extreme heat, California's inmates are also exploited by unfair labor practices. This research project considered public opinion towards prison conditions in these two realms.

**Raina Harper** - The University of New Mexico

**"Resonance of Opportunity: An Exploration of El Norte (1983)"**

I became immediately struck by the passion and beauty on display with the presentation of El Norte (1983). Here, I'll show there are uncountable benefits toward making all aspects of film representing what this film does more representative in terms of who the perspective and driving force is coming from.

**Dylan Haworth** - The University of New Mexico

**"Film as a Weapon: How Latin American Filmmakers Used Movies as a Political Tool"**

My presentation would explore the political origins of film and its later articulations as a tool for anti—authoritarian movements in the Global South. This would include looking at the artist's methodologies and the political history of the continent.

**Maranda Hernandez** - California State Polytechnic University, Pomona

"Analysis of successful completion of endurance horses undergoing the Tevis Cup 160—km ride from 2005 to 2021"

The project will focus on answering the descriptive scientific question, "What are the main factors that characterize patterns found in completion rates of the Tevis Cup endurance ride from 2005 to 2021?" Analyzing the completed results will help determine which factors may help aid in the finishing of endurance rides.

**Jose Hernandez-Romero** - California State Polytechnic University, Pomona

"Screening of Magnetic Nanoparticles for Magnetic Hyperthermia Application by Finite Element Method"

In this study, a computational model was developed in COMSOL Multiphysics to investigate the heating efficacy of various magnetic nanoparticle (MNP) compounds for magnetic hyperthermia application in a 3D thermal model of a liver tumor.

**Trinity Holden** - University of Montana

"COVID—19's Impact on University of Montana Students"

This presentation will share findings from an Honors student research project surveying University of Montana students about the impacts of the COVID—19 pandemic. We will share our literature review, approach, and results relating to students' academic performance, mental and physical health, and social engagement. Recommendations will be discussed.

**Louise Holland** - Fort Lewis College

"Awareness and Communication of On—Campus Mental Health Resources: A Comparison Study of Fort Lewis' Counseling Center "

A study focusing on the comparison of Fort Lewis College's Counseling Center website, CSU's website, and CMU's website; accompanied by interviews and a student survey to create recommendations on how to better the Fort Lewis College Counseling Center website.

**Amaya Holliday** - Fort Lewis College

"Restorative Justice and Sexual Misconduct"

This is an action research project which explores the possibility of implementing a restorative justice option for cases of sexual misconduct on college campuses.

**Alexandra Hutchinson** - Southern Utah University

"Being Visible is Vital"

This experiential Honors capstone project, informed by cutting—edge research, showcases the comprehensive portfolio of an engineering student at Southern Utah University. This project also further illustrates the need for design students of all disciplines to be curating digital portfolios.

**Dariusz Imani** - University of California, Davis

“Clustering Techniques in the Hadronic High Mass Pair Search”

A search for physics beyond the Standard Model is conducted through analysis of data from the Compact Muon Solenoid (CMS) experiment at CERN . The proposed decay model is presented, along with the algorithm for reconstructing such events from observed jets of hadrons detected in the CMS tracker.

**Megan Jacobs** - The University of New Mexico

“Re—envisioning the Future: How Can the Academy Mitigate Climate Change?”

What actions can higher education take to help mitigate climate change? This panel intends to help us re—envision our environmental responsibilities within the framework of the academy. Using case studies that illustrate how research, education, and creative works can support sustainability through community building, we plan a lively, interactive conversation.

**Syeda Jamshed** - University of Nevada, Las Vegas

“Climbing the Social Ladder: Asian American Education and Social Mobility Across the United States”

Despite the rapid growth of the Asian American community in the United States, Asian Americans are constantly facing various obstacles in our society. This presentation examines whether education influences socioeconomic advancement of Asian Americans, and whether the relationship between the two variables is conditioned by other factors, including social capital.

**Eleanor Jeffers** - Whitworth University

“Access Matters: Disability in the Outdoors”

As a disabled student with a passion for the outdoors, I want to examine disability accommodations within the National Parks and other natural spaces. I attempt to answer this question: how do disabled people engage in outdoor recreation, and how can accessibility be improved throughout these programs nationwide?

**Liesl Jensen** - Metropolitan State University of Denver

“Investigation of the Peptide Binding Groove in Mutations of the Human Immunological Protein HLA—B27 and how that may impact SARS CoV—2 Binding Interactions”

Investigation of the Vasoactive Intestinal Peptide Type 1 Receptor protein and Human Lymphocyte Antigen B27 mutations. Investigation of this interaction within the peptide binding groove using Chimera and HDock. The peptide binding behavior between VIPR and HLA—B27 was used to determine HLA—B27 and SARS—CoV—2 spike protein binding interactions.

**Maria Jerinic** - University of Nevada, Las Vegas

“Honoring Creativity: Promoting Student Creative Works by Starting an Honors College Arts Magazine — A Roundtable”

This roundtable, run by the editor-in-chief, managing editor, and faculty advisor for From the Brush plans to generate conversation on starting and running a student publication. The presenters will share their process and challenges. They will invite discussion of benefits for students and Honors programs/colleges resulting from supporting student-run publications.

**Yue Jin** - University of California, Davis

“How to Leverage AI-based Computer Vision for Dietary Intake Assessment: How to Make Image Sourcing More Efficient?”

This work organizes food image datasets for computer vision models that will be used to identify and classify foods from images. This is part of a broader computer-vision-based project aimed at predicting glycan content from photographs and can reduce the resources required for image sourcing for other computer vision applications.

**Nell Johnson** - The University of New Mexico

“Write Yourself: Mastering Artist Statements and Author Bios”

Ever stared blankly at Submittable trying to come up with something to say about yourself or your work? Conquer your fears, tear down your mental blocks, and attend this workshop, meant to help you write concise, meaningful author bios and artist statements.

**Jacob Johnson** - University of Nevada, Reno

“From Student to Instructor: Creating and Presenting a Digital Literacies Course to Older Adults”

Three students discuss their research on dis/misinformation targeted toward older adults and the digital literacies course the students created and presented to older adults in their community. These students will also discuss their collaboration process and offer workable options for other students seeking to share their research outside the classroom.

**Shivani Kapadia** - The University of New Mexico

“Uner Tan Syndrome”

Uner Tan Syndrome is a rare autosomal-recessive disorder characterized by the phenotypes of quadrupedal gait and various cerebellar abnormalities. This poster discusses the genetic abnormalities that have been found in those affected with Uner Tan Syndrome. Additionally, future directions and the ethics of additional research are discussed.

**Dhanush Karthikeyan** - California Polytechnic University, Pomona

“Topology Driven Virality Detection in Malicious Cascades”

The motivation behind this research is to construct classification models that anticipate hacktivism campaigns and mass-adoptions of cyber threats using structural features extracted from the cascade. This task can be accomplished through the identification of a viral cascade in its early stages through binary classification of its topological features.

**Joanne Kasem** - California State University, Long Beach

**"California Whistleblowers During a Pandemic"**

This thesis brings to light the many whistleblower retaliation cases that occurred in the California healthcare industry from March 2020 to November 2021 that have been directly and indirectly instigated by the COVID—19 Pandemic. This research gains insight into healthcare professionals' Freedom of Speech and working conditions.

**Kiesa Keller** - Utah Valley University

**"The Damaging, Intersectional Rhetoric Between Abortion and Pregnancy Loss"**

This research addresses the problematic rhetoric around women's sexual reproductive health by analyzing abortion rhetoric under a pregnancy loss post on Instagram. This research dissects the rhetoric and explores its potential implications. Finally, this research provides some clarity around the issue and leaves room for further considerations.

**Zoe Kellermeyer** - University of Portland

**"Trypanosoma cruzi in the face of climate change: current and future directions for treatment and research"**

The effects of climate change are projected to increase the range of Trypanosoma cruzi and its insect vector further into the United States and potentially across the world. New treatments are needed, and this review covers problems with current treatments as well as proposes directions for further and new research.

**Jennifer Kepler** - University of Portland

**"The Impact of Inequitable Distribution of Ventilators for COVID—19 Treatment on Nonwhite Populations Within the U.S."**

Existing triage protocols used to distribute ventilators in high demand for COVID—19 treatment compound health inequities for nonwhite populations in the U.S. by amplifying structural inequities. Evidence suggests that nurses play a critical role in reforming the resource allocation triage process and mitigating these equity violations.

**Allison Kim** - California State University, Long Beach

**"Experienced Educators' Reflection on Mathematics Teaching and Learning"**

This project is a collection of ideas and methods identified in math education from different educators.

**Callie King-Stevens** - Southern Utah University

**"Mentorship in Creative Writing Programs: Helping Students Find Their Genre"**

An oral presentation on the importance of mentorship programs in undergraduate creative writing programs, specifically in helping students pick their preferred genre and become successful after graduation. The presentation will discuss best mentorship practices based on research in the field and the proposed plans for more research.

**Madison Kleinrock-Andrews** - University of Nevada, Las Vegas

"Thoughts of a Teenager: A Collection of Poetry About the Contemporary Teenage Experience"

Contemporary teenagers face a drastically different set of challenges than their parents did as teenagers. In response to these unique challenges, I am writing a collection of poetry about the contemporary teenage experience titled Thoughts of a Teenager. I will discuss the previously mentioned challenges and then read some poems.

**Alexandra Kraft** - Chapman University

"The Age Of Consensual Non—Monogamy"

Consensually non—monogamous (CNM) relationships are on the rise. This unique form of romance brings even more unique insights into love, trust, and happiness. This project investigates consensual non—monogamy and the surprising advantages of partaking in it.

**Annie Lampman** - Washington State University

"Mindfulness, the Environment, and Creative Nonfiction Writing: A Multidisciplinary Intersection"

Honors students often face high levels of stress and anxiety along with other mental health challenges and simultaneously face the pressing reality of climate crisis, but by utilizing creative nonfiction writing, an Honors—based mindfulness program, and a focus on the environment, the classroom can turn into a place of transformation.

**Zane Landin** - California State Polytechnic University, Pomona

"The Role of Disability Cultural Centers in Creating a Supportive and Transformational Experience for Students with Disabilities"

In higher education, disability goes beyond academic accommodations. Higher education needs to address the cultural experience of disability to encourage inclusivity, a sense of belonging, and community. Universities have created disability cultural centers (DCC) to achieve this. This research outlines why more universities should implement DCCs.

**Melissa Le** - University of Nevada, Las Vegas

"You Never Walk Alone: How BTS Supports ARMY Mental Health & Well—being"

I will be doing a poster presentation on how Korean pop music has increasingly improved listener mental health and well—being through a case study of the seven—membered South Korean boy band BTS and their fans ARMY. I will do a thematic analysis of the qualitative survey data using phenomenology.

**Julie Lee** - Metropolitan State University of Denver

"Significance of the Translation Initiation Machinery Recruiting Structures in the Blackcurrant Reversion Virus RNA 1"

The 3' cap—dependent translation enhancers (CITEs) of plant viruses are used to initiate translation due to the absence of a mRNA 5' cap. This study focuses on how the BRV 3' CITE and 5' UTR structures/putative kissing interaction affect translation initiation.

**Melina Liedtke** - University of Idaho

"Genetic Monitoring for the Endangered Sonoran Pronghorn (*Antilocapra americana sonoriensis*)"

The objective of this study is to determine individual identification, abundance estimates, sex ratios, age structure, and kin selection variables for the endangered Sonoran Pronghorn (*Antilocapra americana sonoriensis*) using non—invasive genetic monitoring.

**Jonah Lindsey** - University of Montana Western

"Fostering Student Engagement in Science and Discovery via the Western Harvester Ant (*Pogonomyrmex occidentalis*)"

Ongoing student research into the western harvester ant (*Pogonomyrmex occidentalis*), at southwest Montana's Hogsback formation, will be discussed, including its relevance to NASA's mission and undergraduate STEM.

**Maximus Luevanos** - Pima Community College

"Unit 731 and the Tuskegee Syphilis Study: The Development of Bioethics in Japan and the United States"

For my anthropology class, the goal of my project was to choose two groups to compare and contrast: one historically—marginalized cultural group within the U.S.; and one from outside the U.S. Thus, I chose to focus on the discriminatory practices in medicine done by Japan and the United States.

**Bridgit Lujan** - The University of New Mexico

"Flamenco and Environmental Justice"

Katherine Dunham introduced the concepts of dance anthropology and research—to—performance. In this presentation Bridgit Luján will introduce her research of the embodied and cultural connection (or lack of) to the natural environment in flamenco dance. Sharing her research to performance process, introducing her vision of "eco—flamenco."

**Cherstin Lyon** - Southern Oregon University

"So you have Diversified the Honors College. Now What?': Equitable Inclusion and Indigeneity in the Honors College at SOU"

The Honors College at SOU diversified the student population, then followed with a multi-pronged approach to equitable inclusion to support the success of diverse students. This included changes in our approach to admissions, the curriculum, co-curricular activities, and programs designed to incorporate indigeneity more fully into the first-year experience.

**Harjeet Mann** - University of California, Davis

"Expanding the Awareness of and Evaluating the Prevalence of Adverse Childhood Experiences in the Sikh Community"

Adverse Childhood Experiences were defined around the categories of childhood abuse and household dysfunction. However, it is important to understand the role of trauma through community factors particularly for minorities who face discrimination. Sikhs are greatly exposed to the expanded ACEs of bullying and discrimination in their classroom and community.

**Jolie Martin** - Utah Valley University

**"Impacts and Treatment of Historical Trauma"**

I will be discussing what historical trauma is and why it is an important subject of study. I also will be making a case for the inclusion of historical trauma into the upcoming 6th edition of the Diagnostic and Statistical Manual under the Trauma and Stress Related Disorders section.

**Ethan Masse** - Paradise Valley Community College

**"Computer Algebra Systems"**

An overview of the definition and early history of computer algebra systems, followed by a description of a basic equation solving program written in Java which does only one of the many functions of modern CAS software. Concluded by a description of modern CAS software and its common usage.

**Carolina Mata** - Washington State University

**"Purification and Crystallization of BaiK for Structural and Mechanistic Studies"**

BaiK is being isolated and purified via metal affinity chromatography and size exclusion chromatography for structural and mechanistic studies using bioinformatics, homology modeling, and preliminary screenings for crystallization.

**Aislinn Matagulay** - University of California, Davis

**"The Effect of State and Non—State Actors on Environmental Conflict Resolution"**

My research uses a mixed—methods approach to study 75 cases of environmental conflict in East Africa over the past 50 years. Using both quantitative and qualitative methods, I analyze the correlation between the types of actors involved in environmental conflict resolution and the outcome of the resolution process.

**CJ McClelland** - Colorado School of Mines

**"Wicked Stories: Empathy Exhibitions"**

Actively participate in empathy exhibits and immerse yourself in stories of grand challenges that take many forms: simulated objects, scenarios, interactive narratives, websites, games, and more. This workshop features students who will actively walk you through their wicked stories and share their reflections on their experiences.

**Colleen McCulloch** - Colorado School of Mines

**"Electric Thread: The Future of Functional Fashion"**

Electric thread is a seemingly minute innovation that has opened up limitless opportunities when it comes to smart tech textiles. From lighting up LEDs to internal heaters and sensors, the exploration of conductive sewing is to be discovered through a simple hands—on workshop.

**Peter McDonough** - University of Montana

**"Teaching for Action: Climate Change, Community, and Mental Health"**

You're preparing to take or teach a class on climate change and the thought alone makes you want to stay in bed. Where do you begin? Join the director and students of the University of Montana's Climate Change Studies program to workshop climate education that engages and affirms.

**Kufre McIver** - The University of New Mexico

**"A Look at the Correlation Between Voter Turnout, Inequality, and Education Spending"**

Political economics research running regressions to determine how strongly income inequality and voter turnout affect education spending within the United States.

**Claire McLane** - University of Arizona

**"Cramming Interdisciplinarity into 7 weeks: Lessons Learned from UA Honors Catalyst Seminar"**

Curious about the pros and cons of an intensive interdisciplinary first-year student experience? Join us in a discussion about what we learned designing and implementing an introductory honors course that uses dynamic student-centered activities to explore the practice of interdisciplinarity — all in one unit!

**Melita Mehzabin** - California State University, Northridge

**"Who cares, and why do they? Understanding a covert careforce of relatives, friends, and neighbors providing child care in the USA"**

We are using the 2012 National Survey of Early Care and Education to generate profiles of a seldom-studied group of child care providers: family, friend, and neighbor caregivers. Such profiles can inform public policy and the organizations in charge of supporting them on a local level.

**Alyssa Meier** - Whitworth University

**"How Does That Make You Feel?: A Correlational Study on Emotional Intelligence and Empathy"**

Whitworth University's capstone Psychology course is an opportunity for students to design and carry out an independent research project. This researcher's study sought to answer the question; do higher emotional intelligence scores relate to higher empathy scores? Through vignettes and a self-report measure, researchers found a significant correlation between variables.

**Minerva Melendrez** - University of California, Davis

**"Understanding Latinx Political Heterogeneity through the Lens of Linked Fate: The Contributing Effects of Country-of-Origin, Citizenship Status, and Political Partisanship"**

This project explores disparities in Latinx political behavior by applying Michael Dawson's theory of linked-fate. In gauging the impact variables country-of-origin, citizenship status, and political partisanship have on varied levels of Latinx linked-fate, it ultimately helps explain why some Latinx subgroups may diverge from the broader group's Democratic alignment.

**Maya Montez** - Long Beach City College

"Quarantine Eating: The Combined Effect of Dietary Patterns and Blood Glucose Levels on Affective Mood States and Risk of Mood Disorders"

COVID—19 has been correlated to an increase in weight gain and mental health disorders due to stay—at—home regulations and the heightened anxiety surrounding the pandemic. My research aims to specifically identify the connection between quarantine eating styles and resulting blood glucose levels on affect and risks of mood disorders.

**Jillian Munoz** - California State Polytechnic University, Pomona

"Have Pandemic Working Conditions Impacted Essential Workers' Death Anxiety and Mental Health?"

If there is anything the pandemic has proved, it's that unskilled labor is a myth and essential workers provide massive amounts of value to our economy and society at large. Despite their integral role in the workforce, essential workers are more likely to experience negative changes to their mental health.

**Valerie Naing** - Mt. San Antonio College

"How to Prevent the Next Pandemic: The Controversial Weapon No One Wants to Talk About"

The way that society interacts with animals has serious implications for global human health. Just by eliminating the livestock industrial complex could prevent the next coronavirus pandemic, a revolution in our food supply could forestall another deadly flu.

**Noor Naji** - University of California, Davis

"Marfey's Reagent to Derivative D—Alanylglycine in Plants for Quantification via HPLC—UV"

This project focused on developing an analytical method to separate D—Alanylglycine in rice tissue and other plants from its L—enantiomer for the overall purpose of quantifying the amino acid to understand its function. Marfey's reagent was selected as the derivatizing agent and HPLC—UV was used to detect the enantiomeric separation.

**Kelli Nakamura** - California State University, Long Beach

"Constructing Complex Identities as Chinese Adoptees"

Transnational Chinese adoptees construct complex identities. While some individuals associate cultural identity with ancestry, adoptees challenge this biocentric paradigm. Furthermore, there are a diverse range of opinions surrounding their family formations. The purpose is to incorporate the perspectives of adoptees into the conversations surrounding transnational Chinese adoptees.

**Timothy Nichols** - University of Montana

**"From Reflection to Action — in an Honors First—Year Course"**

This presentation will feature a variety of student projects and presentations from the University of Montana's 'Introduction to Honors' course. This work includes poetry, music, and visual arts, in addition to essays and e—portfolios. Students will discuss their pieces and impacts of the course on their first—year experience in honors.

**"Student Leadership in Honors Recruitment, Retention, Learning, and Community Building"**

Student Ambassadors, Learning Assistants, resident advisors, and club officers from UM's Davidson Honors College will discuss their work in recruitment, retention, learning and community building in honors at UM. Participants will be encouraged to share ideas and approaches from their institutions in a collaborative discussion of best practices.

**Amy Norzagaray** - Paradise Valley Community College

**"The Physics of Blood Clots"**

Current anticoagulant medication offered to patients with blood clots cause a variety of side effects, the most common being excessive bleeding. This research discusses the abnormal process of thrombosis, specifically the components and physics involved, so that a new treatment could be suggested for patients without a previous medical history.

**Kiera O'Hara-Heinz** - St. Mary's College of California

**"Preventing Culture Shock in Refugee Populations"**

A post—arrival workshop aimed at addressing the culture shock faced by refugee populations after immigrating to the United States. This workshop is designed around preventing and coping with culture shock using Uncertainty Reduction Theory.

**Georgina Ocegueda** - California State University, Long Beach

**"Utilizing CRISPR—Cas9 to determine the role of Thioredoxin in HIV—1 Nef mediated infectivity"**

My research examines the relationship between the HIV—1 accessory protein Nef and the transmembrane protein, Thioredoxin. The goal is to understand the effects on HIV—1 pathogenesis in the absence of Thioredoxin and characterize the mechanisms by which retroviral gene products modulate host cell pathways and antiviral defenses.

**Lauren Odette** - Central Washington University

**"Women in Leadership: Emotional Intelligence in the Workplace"**

The professional world is evolving, and business leaders are required to operate in difficult situations. This workshop is focused on equipping women in leadership with skills on emotional intelligence and dealing with hard conversations. Participants will learn about their leadership profile and develop skills to be a more effective communicator.

**Caitlin Ottaway** - Washington State University

**"Sleep Loss and Risk—Taking: An Integrative Review"**

It is often assumed that sleep loss increases risk—taking, but experimental literature examining this assumption is mixed. To clarify how sleep loss may affect risk—taking, we reviewed how risk—taking is assessed, its relation to sleep loss, and which cognitive processes affected by sleep loss may contribute to risk—taking.

**Francis Packard** - The University of New Mexico

**"We Live in a Society: Meme Irony and Postmodernism"**

In this presentation I will go over the use of irony in meme culture and how it relates to the irony present in postmodernist criticisms of the world, as well as how memes are on the cutting edge of the world's cultural movements.

**Sarah Pascarella** - California State University, Long Beach

**"NEXT: An Acknowledgement of the Exotic in the Familiar"**

A spunky and progressive cosmetic beauty brand office that caters to the daring, the curious, the catalysts. Designed by Sarah Pascarella, a third year Interior Design student at California State University Long Beach. I created the logo, overall presentation, Interior Design, renderings, and overall approach to this made up company.

**Hugo Peralta-Ramirez** - MiraCosta College

**"Between the Church and State: A Brief Examination of Rule, Identity, and Development in Mexico"**

An examination and evaluation of Mexico's reformist priests since colonization, the utilization of the syncretic Catholic Church for reform, and Church—State relations.

**Nathan Periera** - California State University, Long Beach

**"Implicit Bias in UX Research Methodologies"**

User Experience (UX) is a multidisciplinary field that utilizes specialized research methodologies. The purpose of this pilot study was to find trends in the awareness of implicit biases, such as physical, social and emotional, or cognitive and intellectual barriers to participation in UX research processes to ultimately inform larger studies.

**Manette Perez** - Salt Lake Community College

**"The Gamble: Being Pregnant in Systemic Oppression"**

The project will discuss the data, surveys, and stories about the effects of systematic oppression in medicine, specifically on maternal health and delivery, and will be examining how oppressive systems have hurt communities of color, especially Black mothers.

**Emma Phillips** - University of California, Davis

"Assessment of Communication Effectiveness in Computer—Mediated Therapy vs. Face—to—Face Therapy"

This study compares the communication effectiveness of computer—mediated therapy and face—to—face therapy. By examining participants' levels of self—disclosure, the working alliance with their therapist, and perceptions of their therapist's nonverbal immediacy, we explore how they are present in face—to—face and computer—mediated therapy sessions and how these variables impact therapy effectiveness.

**Justin Pilgrim** - Washington State University

"Universal, Soft Scalable Actuator Module (USSAM)"

The presentation for the poster will discuss a soft actuator made of silicone that is currently being designed to that can achieve decoupled and controllable linear, twisting, and bending motions in a 3D workspace.

**Rolando Pineda** - MiraCosta College

"The Oneida Community: The making of Super Babies"

This presentation explores the history of the Oneida Community. It analyzes the different beliefs systems, like complex marriage and bible communism, that led them to perform the first successful experiment with eugenics in American history.

**Dylan Poch** - Metropolitan State University of Denver

"Pyllelic: a Software Suite for Examining Allelic DNA CpG Methylation April 8—10, 2022 Patterns in Genomic Datasets"

Epigenetic information linking allele—specific methylation (ASM) patterns with cancer progression is only starting to be understood. Here, we present a Python software suite, Pyllelic, that analyzes the level of CpG methylation to determine statistically relevant ASM patterns across a variety of pathological conditions.

**Chris Prentice** - Central New Mexico Community College

"Better Access, Improved Transfer: Evolving a Community College Honors Program"

Chair, faculty, and student of the honors program at Central New Mexico Community College describe revamp of the program over the last five years. Presentation gives overview of program, explores successes and challenges, and offers the perspective of a former student now graduating from University of New Mexico's Honors College.

**Matteya Proctor** - Washington State University

"Sleep Loss and Risk—Taking: An Integrative Review"

It is often assumed that sleep loss increases risk—taking, but experimental literature examining this assumption is mixed. To clarify how sleep loss may affect risk—taking, we reviewed how risk—taking is assessed, its relation to sleep loss, and which cognitive processes affected by sleep loss may contribute to risk—tasking.

**Austin Quintero** - Chapman University

“When You Wish Upon A Star”: The Magic Of Stars in Disney Films”

Within Disney films, stars serve as important symbols throughout the Disney universe. They have been presented through various rhetorical lenses throughout Disney’s history.

**Mariah Ramirez** - California State University, Long Beach

“From Then to Now: Financial Planning & Ideas of Wealth”

Financial planning practices have evolved and ideas about what wealth is or how to create it have transformed to fit the time and space we’re in. The current moment is full of opportunities but how did we get here? What was financial planning and what is it now?

**Samara Rangel** - Southern Utah University

“Why Therapists Use the Words They Use: Understanding Mental Health Jargon”

As Mental Health Support Peers at Southern Utah University, share our role and responsibilities and how my team and I increased awareness to minority and international students populations of resources available for their holistic wellness through partnering with campus organizations and consulting with their team on multicultural outreach.

**Holly Riley** - University of Montana

“Art of Inquiry: Practices in an Honors Research Methods and Ethics Course”

In a collaborative conversation welcoming audience feedback and questions, two instructors (one current, one former) and two students from an honors research methods and ethics course at University of Montana discuss effective strategies for enriching student researchers across varied disciplines, grade levels, and project timelines.

**Monserat Rodriguez-Rico** - The University of New Mexico

“We Got Us: An Institutional Ethnography of Community Centered Collaboration in Albuquerque Grassroots Justice Movements”

Institutional ethnography on community—centered organizing efforts done by the Albuquerque grassroots community

**Brian Rogers** - California State University, Long Beach

“Toward Complementary Metal Oxide Semiconductor (CMOS) based secure communication with low power chaos implementation”

Due to the advancement in technology, current methods of data encryption will no longer remain secure. To resolve this pressing issue, the implementation of chaotic systems provides a secure line of communication between the transmitter and receiver, which prevents third parties from extracting confidential information.

**Daniel Romero** - California State Polytechnic University, Pomona

"Air Quality Evaluation on I—210 Freeway Before—and—After Safer—at—Home Order during the COVID—19 Pandemic"

Potential relationships between traffic and air pollutants are investigated by studying two weeks' traffic and air quality data, a week before and a week after the California COVID—19 Safer@ Home Order on the I—210 Freeway in Los Angeles County.

**Natalie Rovello** - The University of New Mexico

"What Does a Woman See When She Walks Through a Museum?"

This presentation will be a survey of problematic pieces of art made by male artists in an attempt to recontextualize them for a modern, feminist audience.

**Nadya Rued** - Chapman University

"A Walk Through the Desert"

The community and solitude of nature can be both ground and center us, thereby allowing us to find calmness and harmony within ourselves. This presentation outlines how nature, or more specifically, the desert can enable us to find internal peace.

**Nathan Rukoven**a - The University of New Mexico

"Social Media — The Panopticons of Our Time"

There is no doubt that social media rules our world. Twitter, Instagram, Facebook—these companies and more have single—handedly changed human history. This oral presentation will uncover how we got to this point and what a future will look like dominated by social media.

**Alexander Runyan** - University of Nevada, Reno

"British Sailors of the 18th Century: Art on the Frontier of the Atlantic World"

This presentation will involve the dissection and artistic examination of artifacts from British sailors throughout the 18th century and early 19th century. This includes artifacts of poetry, journals, and songs in this era, reflecting their rich subculture in the Atlantic world.

**Erin Saldin** - University of Montana

"Bearing Witness: Honors Curriculum and the Voices of Incarcerated Youth"

This panel will explore a case study of a partnership between the Davidson Honors College and Free Verse Writing Project, a non—profit serving incarcerated youth. The discussion will center around reading as a form of bearing witness, as well as a tool for service learning and scholarship.

**Celeste Sanchez** - California State University, Long Beach

"Why is it taking so long? Political factors that played into the passing of previous U.S. immigration reforms, and that may point the way toward reform today"

Millions of families are facing multi—generational harm and barriers in the U.S. due primarily to their immigration status. These are our 11 million undocumented folks whose situation hasn't changed for years and who see no clear solution approaching. This is why it's critical to identify factoring hindering immigration reform today.

**Jeffrey Sapp** - Metropolitan State University of Denver

"Perceptions of Okinawan self—identity as shaped through war and continued military occupation"

The cross—cultural nature of Okinawa has created a unique interplay of self—identities, values, and relationships that is aimed to be explored through ethnographic means. Through the exploration of foreign perceptions of Okinawans, we can gain valuable insight into these elements.

**Andrew Schumann** - The University of New Mexico

"The Politics of Superman"

Look, up in the sky! Is it a bird? A plane? No — it's Superman! This presentation will examine the publication history of the Man of Steel from a political perspective, showcasing how the character has been used to raise class consciousness, deconstruct nationalism, and fight for social justice.

**Maya Shattuck** - California State Polytechnic University, Pomona

"Effects of  $\Delta 9$ —Tetrahydrocannabinol on Embryonic Growth and Development"

The objective of this project is to determine the effects of Tetrahydrocannabinol ( $\Delta 9$ —THC) on body weight, appendage length and heart rate of chicken embryos. This project already has IACUC (Institutional Animal Care and Use Committee) approval.

**Elisabeth Sheber** - Utah Valley University

"Search by Sign: An ASL to English Language Dictionary App"

This unique dictionary app allows users to click a button, record themselves producing a sign and, using motion recognition software, match the sign presented to one in the dictionary. That sign will have an English word that is most equivalent to the sign, a definition, and example sentences provided.

**Stacey Sinclair** - San Diego State University

"Interdisciplinary thinking: Revolutionizing honors education for the next generation"

SDSU has successfully embedded interdisciplinary thinking into its honors curriculum, while simultaneously making it accessible to a diverse student body. This workshop highlights how an interdisciplinary minor offers students the breadth of perspective, flexibility, and ability to "connect the dots" that is required to succeed in today's dynamic, complex world.

**Anya Smith** - University of Montana

**"Religion and Recreational Pole Dancing"**

In 2011, Crystal Dean started a pole dancing class specifically targeted towards Christian women, creating controversy over the co—existence of pole dancing and Jesus. This study seeks to better understand the relationship between religion and recreational pole dancing through a research—driven, fictionalized screenplay.

**Felicia Song** - University of California, Davis

**"Simultaneous Comparison of Intraoperative Brain Function Monitoring: Sedline and BIS on Depth of Sedation"**

Monitoring depth of anesthesia is critical in preventing anesthetic related poor outcomes. Intraoperative brain function monitors with processed electroencephalogram (EEG) indices, the bispectral index (BIS) and patient state index (PSI), may improve characterization of the depth of sedation. The study concurrently compares the performance of BIS and SedLine monitors.

**Julian Sorapuru** - University of San Francisco

**"Eliminating Racial Disparities for Black Students in Higher Education"**

Our honors capstone research project attempts to collectively analyze the racial factors that lead to racial disparities in education for Black people while creating a well—rounded action plan for university stakeholders to employ to close the achievement gap between African American students and their peers.

**Clare Spinner** - University of Portland

**"Meeting of the Minds: Discovering Spatial Structuring of the Brain Through Mathematical Biology"**

Neural codes, represented as collections of binary strings called codewords, encode neural activity. A code is called convex if its codewords are represented as an arrangement of convex open sets in Euclidean space. We prove that for codes with three maximal codewords convexity is equivalent to lacking local obstructions.

**Alexander Runyan** - University of Nevada, Reno

**"British Sailors of the 18th Century: Art on the Frontier of the Atlantic World"**

This presentation will involve the dissection and artistic examination of artifacts from British sailors throughout the 18th century and early 19th century. This includes artifacts of poetry, journals, and songs in this era, reflecting their rich subculture in the Atlantic world.

**Patricia Brigitte Anne (Georgie) Suico** - California State University, Long Beach

**"Activism and ARMYs: K—Pop as Political Engagement and Transnational Advocacy"**

In a polarized environment where the click of a button and a user—specific algorithm easily diverts attention, what creates sustained social engagement? Using a multidisciplinary approach, this research theorizes the nexus of digital socio—political engagement, K—pop fandom, and globalization to evaluate K—pop as a medium for communicating social issues.

**Hannah Taylor** - Colorado School of Mines

**"Community for Students, By Students"**

Creating an impactful, close—knit community within our honors experience has been both challenging and rewarding. House Cup Challenges, cooking competitions, writing sessions——learn about the things that make our community unique and how the lessons we have learned can apply to your honors experience!

**Emily Taylor** - Utah Valley University

**"Post—Traumatic Growth: A Paradigm for Psychological Change"**

Review of current research based on PTG, with a focus on specific attributes or a paradigm for developing the ability to develop growth through traumatic or ecstatic experiences. Another focus will be on the neurological changes a person experiences with these types of growth throughout their life.

**Natalie Teeter** - Chapman University

**"The Rise of Alternative Healing Methods in the United States"**

Alternative healing methods are on the rise in the United States. People are turning to a wide variety of progressive medicinal practices due to the rising awareness of how mental health affects physical health. Many of these alternative methods focus on the power of the body to heal itself.

**Daniil Tourashev** - United States Air Force Academy

**"The City of Heroes: The Image of Mariupol in Post—Maidan Ukraine"**

Mariupol, Ukraine, has been under the threat of attack since the start of the ongoing Russian—Ukrainian war in Donbas. While many neighboring cities fought against Ukraine, my presentation will analyze the factors that allowed Mariupol to resist separatist activity and earn a reputation as The City of Heroes.

**Kathy Tran-Peters** - Salt Lake Community College

**"Amplifying honors education with ePortfolio"**

In this presentation, we will outline how ePortfolio in the Salt Lake Community College (SLCC) Honors Program is integral in empowering students to proactively and intentionally design their educational journey (inside and outside the classroom) to align with their interests, as well as their academic and professional aspirations.

**Nishaad Trivedi** - Chapman University

**"A Brief History of Graphs"**

Graphs date back to the 18th century as a method to help visualize data. Excel in the 1980s and big data in the early 2000s dramatically increased the power and accessibility of data visualization. This project tracks the history and impact of graphs on society's understanding of the world.

**Pamela Trujillo** - California State University, Northridge

**"Sol Technology"**

Sol is a technology company, high in demand for everyday consumers. It is currently a pilot project that will ultimately become a business. Sol works with ethical energy on phones revolutionizing cell phone battery power, providing two charging options. Sol combines the traditional power cord choice with renewable solar energy.

**Victoria Trujillo** - The University of New Mexico

**"The Design Process: Turning a heavy asphalt parking lot into a green urban oasis"**

A look into how architects look at a dense, heavy parking lot surrounded and come away with ideas for an urban oasis for the neighborhood and residents. In this presentation, we will be discussing the design process and how inspiration for design comes in many forms.

**Jessica Valencia Alvarado** - California State University, Long Beach

**"Predatory Lending in Low—Income Latinx Communities"**

My research explores inaccessible banking in low—income communities, such as banking deserts and institutional inaccessibility, and how that affects minority households in those areas. I specifically studied a Latinx neighborhood in Long Beach, CA and examined financial services in this area.

**Kate Valentine** - Washington State University

**"Creative Nonfiction in Conservation Messaging"**

Creative nonfiction can play a vital role in conservation messaging because of its ability to evoke empathy for nature in readers and convey themes, like spiritual and aesthetic values, that are hard to convey in academic/technical styles. It is important to use both forms of writing depending on the audience.

**April Vihildal** - The University of New Mexico

**"The Constellations of 1) Orion, 2) Taurus where in the Pleiades reside, 3) Boötes, 4) Ursa Major and the encoding of Celestial Events in the Odyssey by Homer"**

a PowerPoint presentation with screenshots of astronomical events (from the Voyager software program) demonstrating two opposing dates/seasons in the time of the Odyssey that represent the Full Solar Eclipse that Astronomers and Astrophysicists claim are the dates/seasons encoded into the "Odyssey" by the Homer Collective.

**Melina Vugrin** - The University of New Mexico

**"Factory Farm's Contribution to Pollution and Solutions"**

Factory farms are not often included in the discussion about pollution sources. However, factory farms are significant contributors of pollution. This presentation will discuss how factory farms contribute to pollution as well as legal and individual solutions to reduce this pollution.

**Zoe Walker** - California State Polytechnic University, Pomona

**"Diabetes Prevention Through Lifestyle Changes in African American Women"**

The objective of this study is to determine the effectiveness of a Diabetes Prevention Program focusing on lifestyle interventions in a group of African American women. Success will be measured by tracking participant's body weight and activity minutes each week and glycated hemoglobin (HbA1C) percentage every 6 months.

**Ian Wells** - Washington State University

**"Leidenfrost Dusting as a Novel Tool for Dust Mitigation"**

A liquid cryogen wash removes lunar dust from spacesuits at higher levels than other current technology. The presented results brought the technology from Technology Readiness Level 2 to 5 with 98.4% of lunar dust simulant removed. This technology has the potential to enable the NASA Artemis missions.

**Eliza Wenger** - Chapman University

**"The Mirror Between Two Generations: From Equal Rights to Starry Nights"**

At first glance, Generation Z is seemingly the most volatile and disruptive generation yet. However, the uncanny parallels between Gen Z and often their biggest critics, the Boomer generation, reveal itself through repeating trends such as increased political activism and the gradual turn away from traditional religion.

**Spenser Willden** - The University of New Mexico

**"Housing Honors"**

In Residence Life and Student Housing, the honors living—learning community provides residents a special opportunity to engage themselves fully in the honors and housing communities. How can we, as resident advisors, residents, and faculty, encourage and foster growth through this connection?

**Sylvia Wood** - University of Montana

**"Ecoacoustics: Music and Environmental Activism"**

This study analyzes the impacts of music written about the environment, nature, and sustainability on listeners. Specifically, it explores whether this music can be directly tied to activism, or if it is more effective as a tool for documentation.

**Julia Wynne** - University of Montana

**"Honors Living Learning Community: Developing A Unique Residential Experience For Honors Students"**

Honors colleges strive to create students who represent the values of Honor in all that they do. The Davidson Honors College's Living Learning Community demonstrates just this by creating a unique residential experience for honors students. Learn and discuss how Honors colleges can provide students with a supportive, one-of-a-kind environment.

**Lucas Yantis** - United States Air Force Academy

**"The Fundamental Goal of the Party in George Orwell's 1984"**

Amidst the plethora of literature written about George Orwell's 1984, most focus on the novel as a vessel for critiquing monolithic communism. Despite this, the Party seeks convert their citizens, not destroy them. This led me to explore the question: What is the fundamental goal of the Party in 1984?

**"The True Essence of Vanitas Art"**

What is the true message of vanitas art? How does the message from David Bailly's 1651 self—portrait compare to this? How can Caravaggio's Death of the Virgin (traditionally considered outside of the realm of vanitas art) fulfill the espoused values of vanitas art?

**Leticia Lourdes Yutuc** - Southern Utah University

**"Culture, Health, and Clean Water: An Exploratory Study into Waterborne Diseases in the Philippines"**

This presentation explores the ways in which human behaviors, along with environmental and sociopolitical factors, contribute to the proliferation of waterborne diseases among people living in the Visayas region of the Philippines. In doing so, this talk demonstrates how culture shapes health and access to clean water.

**Sela Zakula** - Paradise Valley Community College

**"Economic Class Impact on Eating Disorder Development"**

The following study was done to investigate significant difference between eating disorders among the U.S. economic classes. A study like this is meant to bring awareness to the mental health and economic crises America faces, especially during childhood. Finding common stressors help to prevent eating disorder development in future generations.

**Mackenzie Zappe** - University of Nevada, Reno

**"Analysis and Prevention of Security Vulnerabilities in a Smart City"**

Modern society is seeing an increase in cyber—attacks, especially towards data processed by infrastructure systems comprised of Internet of Things devices. Smart city software can be exploited and can result in disastrous consequences. Finding vulnerabilities and their solutions in smart city software is critical to the livelihood of these cities.

**Riley Zemlicka** - California State Polytechnic University, Pomona

**"Picture Memory Study"**

This study examines whether the location of information (i.e. right/left) influences memory for temporal information (i.e. past/future). A 2 x 2 repeated measures experimental design was used to measure memory via recall and recognition memory tests. This research will provide more information about the behavioral consequences of the mental timeline.

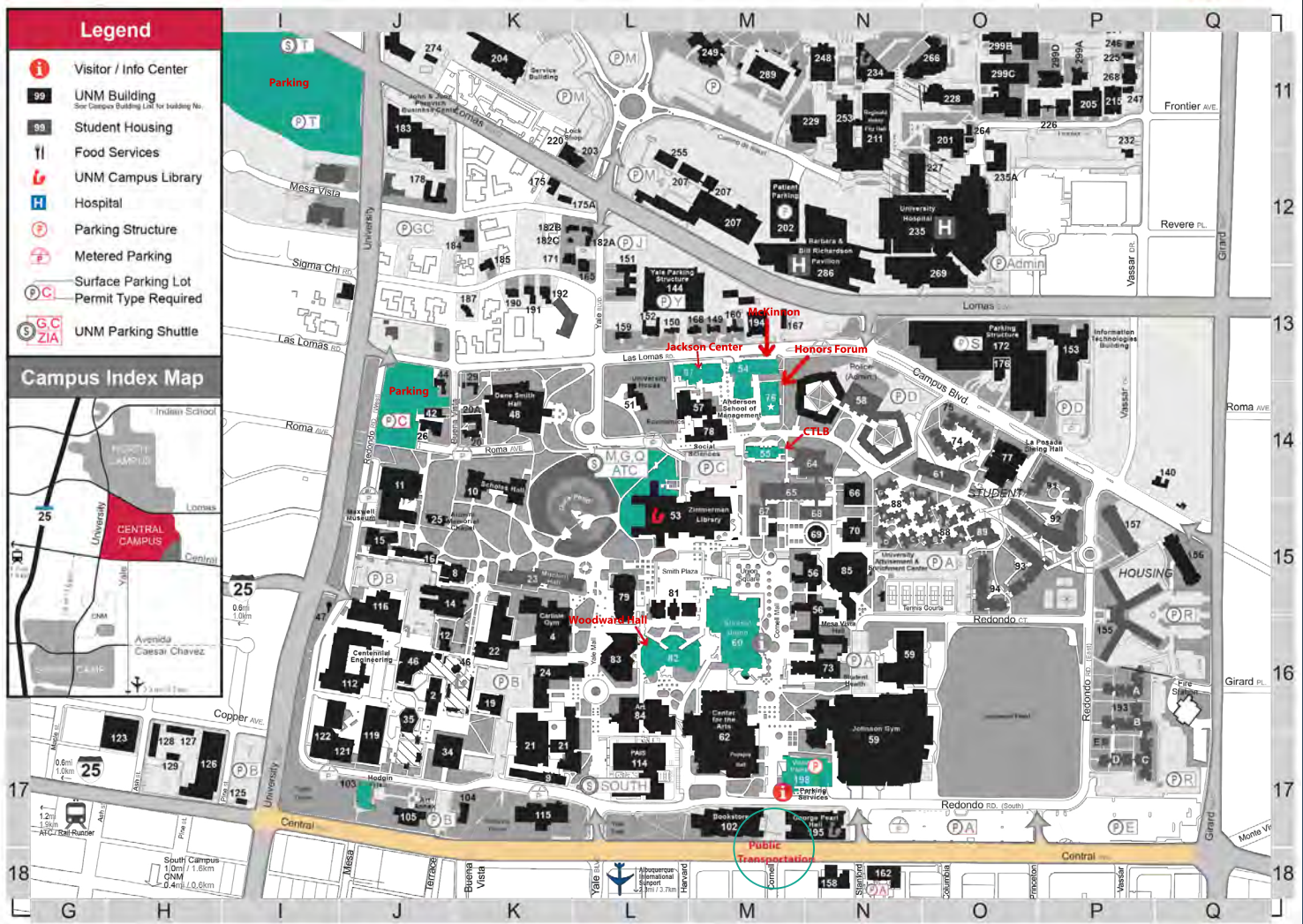
**Emma Ziegler** - The University of New Mexico

**"Who Were Freya and Frigg?"**

Freya and Frigg are two ancient Norse goddesses but few of the surviving myths actually speak about them. Given their importance, the whole story must not have been recorded. By comparing myths as well as viewing archeological evidence, hopefully more of their true story can be explored.



## CENTRAL CAMPUS MAP



[Back to Navigation Menu](#)