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A&S STUDENT SYMPOSIUM 38TH ANNUAL

FRIDAY, APRIL 14, 2023
12:30-7:30 P.M.

MODLIN CENTER FOR THE ARTS
& LOCATIONS ACROSS CAMPUS

Before WWII: Japanese chose to be silent

There is nothing they can do with the situation
ization, Japanese people came to embrace the idea of "shikata ga nai" (there is nothing they can do with the
the resistance was short-lived and extreme abuses of course convinced many to give up farming in California in the
the nation had become an inescapable reality that was pragmatically oriented to the Japanese immigrant yie. When
the mainland all Japanese immigration was enacted, no visible anger or uproar arose from those back on their
the culmination of the white supremacy that they had fought in vain.

white society

As of 1907, Japanese was so responsive to the will of their white neighbors. Some Japanese citizens their
is but not accepted. At the same time, the Japanese government accepted biological racism among racial and
in social supremacy of Japanese.

both the US and Japan

are abandoned by their home country while they suffered from exclusion. In 1907, Gentlemen Agreement was
in Japan and the US. It was an informal agreement by the Japanese government to deny emigrant passports to
decrease the tension.

A surge of nationalism among Issei (first-generation of Japanese immigrants) since the Japanese government
as a part of their imperial strategy. Since they felt rejected as people abandoned from the nation, the
The surge continued till the start of the beginning of Pacific War and FBI classified patriotic people and leaders
are arrested or detained.

Japanese Internment during WWI

Order 9066
order authorized the forced removal of all persons deemed a threat to national security from the west
coast centers. This results in the internment of Japanese Americans.

rest of the society


ent was a mass agreement of the entire society and public sentiment of anti-Japanese was a determining
high people of color including black people and the Jewish people recognized racial issues under the
they did not show a significant disagreement since their own survival in the white society was the first
tion of Japanese culture

ing point of how the Japanese community exists. The camp deprived people of privacy and the family tie
through people tried to preserve their culture in camp, the group life and consistent surveillance set a
so, there was a division between Issei (first generation) and Nisei (Issei). While Issei accepted the
honor their old country, Japan, Nisei tried to pursue their identity as American citizens.


Is the cultural consumption a way of their survival?

In the 21st century, how Japanese culture is consumed in American society reflects on what people in
the US are interested in. While before WWII, there was a Japanese community by Japanese residents, it
does not exist anymore. You may think Japanese American do not need to stick together anymore
because the harsh exclusion is over, but is it really true? Where is the Japanese community gone?
Where is Japanese culture gone?

Regarding Little Tokyo in Los Angeles, a redevelopment plan was carried out in 1973 and there was a
conflict between anti-eviction, consisting of poor and elderly Japanese residents, and moneyed
interests. The war was a turning point of how Japanese culture exists in the US, in which people lost
their culture and pushed the commercialization. If you want to thrive in white society, your culture



WHO IS CONSUMING JAPANESE CULTURE?



Asiatic o
Japanes
"otaku"
manga, c
English,
being m
except f
surpris
Japanes



A TRADITION OF CELEBRATING
OUR
COMMUNITY
OF LEARNERS



Welcome

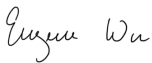
Dear Friends and Colleagues,

Each year the students, faculty, and staff of the School of Arts & Sciences at University of Richmond embark on a new journey of discovery. Today I invite you to not only share in our newfound knowledge, but to discover the School of Arts & Sciences in its many facets and dimensions. Throughout the school year and summer, the School of Arts & Sciences supported hundreds of students in mentored research and scholarship that culminates in today's 38th A&S Student Symposium.

This year's Symposium event features art exhibitions, musical performances, oral presentations, and posters that result from the remarkable creativity and hard work of our students in partnership with the amazing faculty and staff. Their impactful work addresses a huge range of scales, from global warming to microscopic organisms. Let students take you from Arizona to Senegal, and let students tell you stories of Nat Turner's Rebellion or a young immigrant at the border. When you need a musical break, enjoy a performance and discussion on a *Ballade* by Frédéric Chopin in our beautiful Perkinson Recital Hall. To include all of the amazing student work, the Symposium starts on Thursday, April 13 at 5 p.m. with the Department of Latin American, Latino, and Iberian Studies Senior Symposium and ends with a poetry reading at 3 p.m. on Saturday, April 15 in the Humanities Commons. Be sure to stay for the Symposium reception after the last poster session to hear from Andrew Marantz, staff writer at *The New Yorker*, who will help us reflect on a day of discovery.

Big thanks to A&S Dean Jenny Cavanaugh, Associate Dean Kelling Donald, and the Undergraduate Research Committee for providing funds throughout the year to students and faculty to produce the work you see today. The staff of the A&S Dean's Office, in particular Jennifer Lo Prete and Barb Schaible, and the staff of the Technology Learning Center are providing major logistical support for the Symposium. I wish to also thank the staff of the Modlin Center for the Arts for hosting the event. And, of course, thank you for helping us celebrate the remarkable scholarship of our undergraduate students.

Sincerely,



Eugene Wu, Ph. D.

Associate Professor of Biology and Biochemistry
Biochemistry and Molecular Biology Program Coordinator
Arts & Sciences Student Symposium Coordinator

On the cover

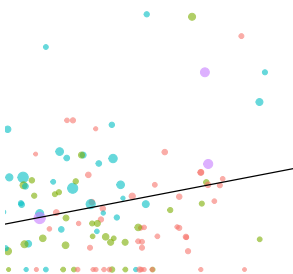
STUDENT-LED, FACULTY-MENTORED WORK

The School of Arts & Sciences remains committed to supporting undergraduate research through A&S Summer Fellowships, part of the Richmond Guarantee program. Whether it's in the lab, the art studio, or the archives, student-led, faculty-mentored is a hallmark of the School of Arts & Sciences experience. We are proud to share and celebrate this work at the A&S Student Symposium.



Friend Group. Oil on canvas painting, 6'x8'. 2022.

Bailey Santaguida, '23, a visual art and psychology major, created *Friend Group* as part of her research project *Confrontations: Stars, Friends, Phonemes* mentored by Jeremy Drummond, associate professor of art, and Erling Sjovold, professor of art. Her work uses abstract painting, film, and installation to explore process of being a friend and the process of doodling.



Joanna Wares, associate professor of mathematics, mentored Maniha Akram, '24; Olivia Barlow, '23; Connor Gasgarth, '23; and Leah Ghazali, '24, as part of a student research group focused on using mathematical models to address questions related to the opioid crisis. Their paper, "Modeling the Opioid Crisis in Virginia: A Differential Equations Model of the Impact of Medication-Assisted Treatment in Correctional Facilities on the Opioid Epidemic" was presented at the Shanks Workshop at Vanderbilt University and has been recognized for its contribution to the field of dynamical modeling for the social sciences.



Students in Jennifer Erkulwater, professor of political science, and Tze Loo's, associate professor of history and global studies, Sophomore Scholars in Residence (SSIR) course, *Asians in America*, examined the history, politics, and activism of Asian communities in the United States. Student Chise Ueda's poster presentation highlights that Asians in America need to internalize white norms to gain their rights in society. Starting from the comparison between commercialized Japanese culture in the U.S. and the real Japanese culture, Ueda introduced Japanese exclusion history and illustrates that they are unconsciously subordinated to consolidated white power. By viewing Japanese exclusion as a part of the entire Asian exclusion history in the U.S., Ueda would like readers to reflect on how cultural consumption relates to each minority group's survival.

Table of Contents

Locations & Times	4
Artist Presentations, Performances, & Exhibitions	5
Oral Presentations	8
American Studies	8
Art & Art History & Film Studies	9
English & English Honors	10
Global Studies, Geography, Sustainability, & The Environment	11
History & History Honors	12
Latin American, Latino, & Iberian Studies	14
Mathematics & Economics	15
Political Science	16
Political Science Honors	17
Rhetoric & Communications	18
Science	19
Societies Around the World	21
Poster Presentations	22
Session 1: 2:30-3:25 P.M.	22
Session 2: 3:30-4:25 P.M.	31
Session 3: 4:30-5:25 P.M.	40
Reception + Keynote Speaker	49
Research Opportunities	50

PHOTOGRAPHY

Video and photographs taken during the Symposium will be used in University publications and on the website. If you do not wish to be included in videos or photographs, please alert the photographer and/or videographer.

Locations & Times

Wednesday, April 12

CAROLE WEINSTEIN INTERNATIONAL CENTER

INTERNATIONAL COMMONS | LALIS Senior Symposium Inaugural Lecture, 6:00 P.M.

Thursday, April 13

TYLER HAYNES COMMONS

ROOM 305 | LALIS Senior Symposium Student Presentations, 5:00 P.M.

Friday, April 14

MODLIN CENTER FOR THE ARTS

BOOTH LOBBY | Symposium Check-In & Poster Presentations, 12:30-5:45 P.M.

M104 | Artist Presentations, 1:00-2:45 P.M.

BOOKER HALL

ROOM B102, B207, B226 | Oral Presentations, 12:30-2:55 P.M.

NORTH COURT

PERKINSON RECITAL HALL | Student recital, 4:00-4:15 P.M.

ROOM 101, 103, 202 | Oral Presentations, 12:30-3:05 P.M.

GOTTWALD CENTER FOR THE SCIENCES

ROOM A100, A201, D308 | Oral Presentations, 12:30-3:05 P.M.

ATRIUM | Reception, 5:30-7:30 P.M.

Featuring keynote by Andrew Marantz, writer for *The New Yorker*.

KELLER HALL

ROOM V206 | Oral Presentations, 12:30-2:45 P.M.

ART & ART HISTORY LOUNGE | Artist Exhibitions, 3:30-4:45 P.M.

ART GALLERY | Artist Exhibitions, 2:30-3:15 P.M.

WEINSTEIN HALL

BROWN-ALLEY ROOM | Oral Presentations, 12:30-3:00 P.M.

Saturday, April 15

HUMANITIES BUILDING

HUMANITIES COMMONS, 3:00 P.M.

Artist Presentations, Performances, & Exhibitions

BOOKER HALL, ROOM B226

12:30-1:00 P.M.

DONTE' THOMPSON

Researching Drawing Emotion from the Listener & The Therapeutic Effects of Listening to Music.

FACULTY MENTOR: Benjamin Broening, Jennifer Cable

HUMANITIES BUILDING, COMMONS

SATURDAY, APRIL 15, 3 PM

EVELYN ZELMER

The Fistland: Ethnographic Poetry about Middle America's White Working Class.

FACULTY MENTOR: Laura Browder

Artist Presentations

KELLER HALL, ART & ART HISTORY LOUNGE LOCATED NEAR KELLER HALL, V206

2:30-2:50 P.M.

JENNA DONALDSON

Liminal Space: Exploring my Asian-White Biracial Identity in America.

FACULTY MENTOR: Tanja Softić

2:55-3:15 P.M.

EVA STEINITZ

Creative Touch: Care Labor & Art.

FACULTY MENTOR: Elena Calvillo, Nathan Snaza

KELLER HALL, ART GALLERY

3:30-3:45 P.M.

BAILEY SANTAGUIDA

Confrontations: Stars, Friends, Phonemes.

FACULTY MENTOR: Jeremy Drummond, Erling Sjøvold

3:45-4:00 P.M.

MEGAN SALTERS

Re-Incarnation.

FACULTY MENTOR: Jeremy Drummond, Tanja Softić

4:00-4:15 P.M.

JOCELYN HERNANDEZ

The Unforgiving American.

FACULTY MENTOR: Tanja Softić, Jeremy Drummond

4:15-4:45 P.M.

ESTEBAN CABASCANGO

VMAP 2023 Art Show.

FACULTY MENTOR: Jeremy Drummond

Artist Presentations

MODLIN CENTER FOR THE ARTS, ROOM M104

1:00-2:00 P.M.

JACK INZER

ReVeAl.

FACULTY MENTOR: Sonja Bertucci

2:00-2:30 P.M.

JUSTIN BUTLER

Santiago: Sound and Music.

FACULTY MENTOR: Michael Davison

2:30-2:45 P.M.

CHRISTIAN CONTE, WILL HARFORD

Can't Lie: A Summer of Songwriting.

FACULTY MENTOR: Benjamin Broening

NORTH COURT, PERKINSON RECITAL HALL

4:00-4:15 P.M.

XIPENG KE

The Narrative Voice of Chopin's G Minor Ballade, Op.23.

FACULTY MENTOR: Richard Becker

Oral Presentations

AMERICAN STUDIES

DOUG WINIARSKI, session moderator
NORTH COURT, ROOM 103

12:30-12:45 P.M.

MAYA CASILLAS, JANIS PARKER

Bunk: A Digital Tool for Discovering US History in Contemporary Discourse.

FACULTY MENTOR: Ed Ayers

12:45-1:15 P.M.

**YAMIR CHAPMAN, MIRANDA MOE, JULIA BERUTTI,
ANNIE WATERS, CRAIG CAUDILL**

Revealing Resistance.

FACULTY MENTORS: Ernest McGowen

1:20-1:45 P.M.

WEILAN MOYER

Arizona and Recreational Cannabis.

FACULTY MENTOR: Laura Browder

1:55-2:20 P.M.

**ELIANA COLEMAN, HARRISON CRAVER, ZEKE FAUCHER,
CHARLIE FISHER, KATE FLANAGAN, ETHAN LEONARD,
AIDA LETTE, DEVIN RYAN, DALIN SAO, JUSTIN ZHANG**

Nat Turner in History, Memory & Popular Culture.

FACULTY MENTOR: Douglas Winiarski

2:20-2:45 P.M.

SHRUTI SATHISH

Storytelling for Social Change: Willnette Cunningham's HIV/AIDS Memoir.

FACULTY MENTOR: Patricia Herrera, Laura Browder

Oral Presentations

2:50-3:05 P.M.

SHIRA GREER

Creating the GRTC Archive.

FACULTY MENTOR: Patricia Herrera

ART & ART HISTORY, & FILM STUDIES

AGNIESZKA SZYMANSKA, session moderator

BOOKER HALL OF MUSIC, ROOM 102

12:30-12:45 P.M.

MAGGIE OTRADOVEC

Business v. Personal: How *The Godfather* Reflects the Professional and Personal Aspects of its Production.

FACULTY MENTOR: Abigail Cheever

12:45-1:00 P.M.

TRA MY ANDERSON

Ghost in the Angel's Egg: Intersection of Religion and Metaphysics in the Filmography of Mamoru Oshii.

FACULTY MENTORS: Olivier Delers

1:00-1:25 P.M.

LAUREN MEDLIN

Performing and Observing Gender: Mapplethorpe's Photographs of Lisa Lyon and Patti Smith.

FACULTY MENTOR: Agnieszka Szymanska

1:30-1:45 P.M.

MACLAINE BAMBERGER

Art Nouveau's Nationalistic Ornament.

FACULTY MENTOR: Agnieszka Szymanska

1:45-2:05 P.M.

HOPE MANNING

Van Gogh and Japan.

FACULTY MENTORS: Najung Kim

Oral Presentations

2:05-2:20 P.M.

SOPHIE MCCLELLAN

Plucking the Fruits of Knowledge: Mary Cassatt's Artistic Empowerment of Women.

FACULTY MENTOR: Agnieszka Szymanska

2:20-2:40 P.M.

CHLOE KHOSHAND

Torn Off with Malice: Circumstances of the Benin Bronzes.

FACULTY MENTOR: Agnieszka Szymanska

2:40-2:55 P.M.

SOPHIE MCCLELLAN

Therefore I Am: Portraits from the Joel and Lila Harnett Print Study Center.

FACULTY MENTOR: Elizabeth Schlatter

ENGLISH & ENGLISH HONORS

ELISABETH GRUNER, session moderator

BOOKER HALL OF MUSIC, ROOM B207

12:50-1:10 P.M.

HELENE LEICHTER

An Ongoing Exploration of Selfhood from American Renaissance Literature to Contemporary Young Adult Literature.

FACULTY MENTOR: Kevin Pelletier

1:10-1:25 P.M.

JENNA HARFORD

Veiled Victorian Vampirism: What Literary Antagonists Reveal about Societal Fears of 19th Century England.

FACULTY MENTOR: Elisabeth Gruner

1:30-1:45 P.M.

ISABEL BITNER

Isolation, Connection, and Murakami.

FACULTY MENTORS: Abigail Cheever, Olivier Delers

Oral Presentations

1:45-2:10 P.M.

CLAIRE SILVERMAN

An Experiment of Translation: An Exploration of the Art Form and Institution of Ballet.

FACULTY MENTOR: Julietta Singh, Sonja Bertucci

GLOBAL STUDIES, GEOGRAPHY, SUSTAINABILITY & THE ENVIRONMENT

MARY FINLEY-BROOK, session moderator

NORTH COURT, ROOM 101

12:30-12:50 P.M.

CAITLIN FAY

Exploring Fish Biodiversity and Client Behaviors at Marine Cleaning Stations in South Caicos, Turks and Caicos Islands.

FACULTY MENTOR: C. E. (Shades) O'Brien*

12:50-1:05 P.M.

HENRY KOCH

The Future of Landfill Gas, and its Impacts on Climate and Community.

FACULTY MENTOR: Mary Finley-Brook

1:05-1:20 P.M.

NATALIE SCHAUS

Implementing Rights of Nature into the Environmental Justice Framework:

A Golden Opportunity.

FACULTY MENTOR: Mary Finley-Brook

1:20-1:40 P.M.

SARAH MURTAUGH

Environmental Justice in Charles City County.

FACULTY MENTOR: Mary Finley-Brook, Beth Zizzamia

Oral Presentations

1:45-2:00 P.M.

CHARLES MULLIS

Landfill Gas in University Offset Markets.

FACULTY MENTOR: Mary Finley-Brook

2:00-2:20 P.M.

JACK MALINS

Efficacy of Populism in Democratic Systems.

FACULTY MENTOR: Luai Allarakia

2:20-2:40 P.M.

JORDAN HUANG

Brexit and British Identity.

FACULTY MENTOR: Stephen Long

HISTORY & HISTORY HONORS

DAVID BRANDENBERGER, session moderator

NORTH COURT, ROOM 202

12:30-12:50 P.M.

REVA HENDERSON

A New American Identity Based on French Culture.

FACULTY MENTOR: Sydney Watts

12:50-1:10 P.M.

REIDE PETTY

Socialist Legality on Trial: An Analysis of Several Cases in the Purge of the Ukrainian NKVD.

FACULTY MENTOR: David Brandenberger

1:10-1:30 P.M.

MADELEINE LONG

If Truth Be Told: An Application of Contemporaneous Journalistic Ethics to the Western Media's Coverage of the Soviet Union, 1931-1933.

FACULTY MENTOR: David Brandenberger

Oral Presentations

1:30-1:45 P.M.

JANIS PARKER

Confederate Monuments: Civil War Narratives and Preserving Public Memory, 1865-1915.

FACULTY MENTOR: Eric Yellin

1:50-2:05 P.M.

HANNAH LEVINE

Battling Patriarchy, Imperialism, and Machismo: Understanding the Novel Participation of Militant FSLN Women During the Nicaraguan Revolution, 1972-1990.

FACULTY MENTOR: Nicole Sackley

2:05-2:25 P.M.

YAMIR CHAPMAN

Resistance and Endurance in the Face of Adversity.

FACULTY MENTOR: Kathleen Skerrett

2:25-2:45 P.M.

CAMDEN REED

Perceptions of Progress, Pillars and Plight.

FACULTY MENTOR: David Brandenberger

2:45-3:05 P.M.

ROBERT BENTLEY

Race, Ideology, and Revolt: An Examination of the Civilizing Missions within British Jamaica and French Egypt.

FACULTY MENTOR: Chris Bischof

Oral Presentations

LATIN AMERICAN, LATINO, & IBERIAN STUDIES

WEDNESDAY, APRIL 12, 6:00 P.M.

CAROLE WEINSTEIN INTERNATIONAL CENTER, INTERNATIONAL COMMONS

LALIS SENIOR SYMPOSIUM INAUGURAL LECTURE

Dr. Matthew Kanwit, '05, Associate Professor of Linguistics, University of Pittsburgh

Hablaré o voy a hablar? La adquisición de la expresión variable de la futuridad en el español como segunda lengua. (Lecture is in Spanish.)

THURSDAY, APRIL 13 5:00 P.M.

TYLER HAYNES COMMONS, ROOM 305

STUDENT PRESENTATIONS

ESTEBAN CABASCANGO

Presentación de "The Crossing."

SYDNEY DWYER

Cambios demográficos en la comunidad latina: algunos casos prácticos de estrategias mercadotécnicas.

LEAH KULMA

Lo que está pasando en el salón de español: Una pedagogía crítica para la voz de los estudiantes.

LILY MILLER

Los dilemas del feminismo mexicano en las plataformas digitales.

ALYSSA WEIPPERT

Una banda sonora musical para "Ritmo de otoño," poema de Federico García Lorca.

MATHEMATICS & ECONOMICS

JOANNA WARES, session moderator
BOOKER HALL OF MUSIC, ROOM 226

1:10-1:35 P.M.

RILYN MCKALLIP

From Big Farm to Big Pharma: A Differential Equations Model of Antibiotic-resistant Salmonella in Poultry Populations.

FACULTY MENTORS: Lester Caudill

1:35-1:50 P.M.

JACK RIDILLA, KYLENE ROBLES

Predictors of Poverty and Policy Implications in OECD Countries.

FACULTY MENTOR: Andrea Waddle[†]

2:00-2:25 P.M.

OLIVIA BARLOW, LEAH GHAZALI, CONNOR GASGARTH, MANIHA AKRAM

A Differential Equations Model of the Impact of Medically-Assisted Treatment in Correctional Facilities on the Opioid Epidemic in Virginia.

FACULTY MENTOR: Joanna Wares

2:25-2:40 P.M.

KATHERINE COFFEY

University Board Composition and Institutional Performance.

FACULTY MENTORS: James Monks[†]

Oral Presentations

POLITICAL SCIENCE

LUAI ALLARKIA, JENNIFER PRIBBLE,
JENNIFER BOWIE, & CLAUDIO LOPEZ-GUERRA,
session moderators
GOTTWALD SCIENCE CENTER, ROOM A201

12:30-12:45 P.M.

NANDINI RAISURANA

Assessing the Effectiveness of the International Court of Justice:
A Case Study of The Rohingya Genocide.

FACULTY MENTOR: Luai Allarakia

12:45-1:00 P.M.

ANANYA CHETIA

Exploring Political Satire in Iran.

FACULTY MENTOR: Kevin Pelletier

1:00-1:15 P.M.

ADAM WEBSTER

Stringency and Efficacy of COVID-19 Responses in Democracies:
A South Korea Case Study.

FACULTY MENTOR: Dan Chen

1:15-1:35 P.M.

MARÍA ZAMBRANO DÁVILA

Feminist Policy and Gender Parity in the Chilean Constitutional Rewrite.

FACULTY MENTOR: Jennifer Pribble

1:40-2:00 P.M.

PARKER HAILEY

Partisan Attorneys General Associations, Polarized State Politics, and the
Nationalization of States Attorneys General.

FACULTY MENTOR: Anthony Sparacino

2:00-2:15 p.m.

TREVIN STEVENS

The Polarization and Nationalization of State Secretaries of States.

FACULTY MENTOR: Anthony Sparacino

Oral Presentations

2:15-2:30 P.M.

NICO ELLIS

An Analysis of Justice Ruth Bader Ginsburg's Use of Emotive Language in Her Authored Dissenting Opinions.

FACULTY MENTOR: Jennifer Bowie

2:30-2:45 P.M.

ZACHARY HOLMES

Lost in Translation: Mistranslation in Judicial Opinions from the Appeals Court of Québec.

FACULTY MENTOR: Jennifer Bowie

2:45-3:05 p.m.

LAURA ROLDAN

Before and After Justice Kennedy's Retirement: A Study on Court Efficiency and Legitimacy.

FACULTY MENTOR: Jennifer Bowie

POLITICAL SCIENCE HONORS

JENNIFER ERKULWATER, session moderator

WEINSTEIN HALL, BROWN-ALLEY ROOM

12:30-1:00 P.M.

KAITLYN O'LEARY

Hold the Phone: The Relationship Between Visual Cues and Gender Schematic Language in Supreme Court Oral Argument.

FACULTY MENTORS: Jennifer Bowie, Ernest McGowen

1:00-1:30 P.M.

MEGAN SCHMITZ

A Tale of Two Venues: The Lobbying of The Affordable Care Act.

FACULTY MENTOR: Jennifer Erkulwater

1:30-2:00 P.M.

AVA GURAL

Identity, Efficacy, and Policy Design.

FACULTY MENTOR: Jennifer Erkulwater, Tracy Roof

Oral Presentations

2:00-2:30 P.M.

TANNER BROOKS

Facing Famine: Justice and the Case of Unilateral Intervention.

FACULTY MENTOR: Claudio Lopez-Guerra, Jeppe von Platz

2:30-3:00 P.M.

ALEXIS COBBS

Magic as Political Might: Harry Potter, Authoritarianism, and Youth Political Behavior.

FACULTY MENTORS: Ernest McGowen, Kevin Cherry

RHETORIC & COMMUNICATIONS

TIMOTHY BARNEY & LINDA HOBGOOD,

session moderators

KELLER HALL, ROOM V206

12:30-12:50 P.M.

WILL SAUERS

Mothers, Brothers, Sons, and Daughters: Rhetorical Influence of Family Members on Presidents and their Presidencies.

FACULTY MENTOR: Linda Hobgood

12:50-1:05 P.M.

QUINN BOGUE, JAMES SALERNO, WILL SAUERS, GURBANI MAKAR

Mothers, Brothers, Sons, and Daughters: Rhetorical Influence of Family Members on Presidents and their Presidencies.

FACULTY MENTOR: Linda Hobgood

1:05-1:25 P.M.

GURBANI MAKAR, QUINN BOGUE, JAMES SALERNO, WILL SAUERS

Mothers, Brothers, Sons, and Daughters: Rhetorical Influence of Family Members on Presidents and their Presidencies.

FACULTY MENTOR: Linda Hobgood

Oral Presentations

1:30-1:50 P.M.

JAMES SALERNO

Mothers, Brothers, Sons, and Daughters: Rhetorical Influence of Family Members on Presidents and their Presidencies.

FACULTY MENTOR: Linda Hobgood

1:50-2:05 P.M.

LAUREN OLIGINO

A Historical Examination of Rhetoric During Global Pandemics: Our Shared Mistakes and Its Impact on the World Today.

FACULTY MENTOR: Timothy Barney, Nathan Snaza

2:05-2:25 P.M.

ZAOWEN CHEN

Chinafication.

FACULTY MENTOR: Mari Lee Mifsud

2:25-2:45 P.M.

WILLIAM ROBERTS

Love, Labor, and Leisure in Theocritus' Bucolic Idylls.

FACULTY MENTOR: Walter Stevenson

SCIENCE

MICHAEL NORRIS, session moderator

GOTTWALD SCIENCE CENTER, ROOM D308

12:30-12:50 P.M.

HELEN XIA

Friedel-Crafts Alkylation of Indoles with Alkyl Acetates.

FACULTY MENTORS: Wade Downey

12:50-1:05 P.M.

HANNAH PARKER

Building an Interactive Tool to Catalog Metabolic Genetic Disorders.

FACULTY MENTOR: Julie Pollock

Oral Presentations

1:05-1:25 P.M.

ELIZABETH FORREY

Prevalence Rate of Bartonella Bacteria in the Endangered Channel Island Fox (*Urocyon littoralis*).

FACULTY MENTOR: Jory Brinkerhoff

1:30-1:50 P.M.

SAM KELLY

Ecophysiological Performance of the Shade Tolerant Invasive Grass, Wavyleaf Basketgrass.

FACULTY MENTOR: Carrie Wu

1:50-2:05 P.M.

SYDNEY MOISE

Electrochemical Reduction of Carbon Dioxide.

FACULTY MENTORS: Michael Norris

2:05-2:20 P.M.

NOLAN SYKES

Synthesis and Analysis of Isomeric Monodentate Pyrrolyl Phosphine Ligands.

FACULTY MENTOR: Miles Johnson

2:20-2:40 P.M.

DONTE' THOMPSON

Pseudomonas putida and the Conversion of Toxic Intermediates with a Rare Earth Metal.

FACULTY MENTOR: Dominique Williams

2:40-2:55 P.M.

THOMAS CAMPBELL

Ru-Catalyzed Pendent Lewis Acid Reduction of CO₂.

FACULTY MENTOR: Michael Norris

SOCIETIES AROUND THE WORLD

NATHAN SNAZA & KRISTIN BEZIO,

session moderators

GOTTWALD SCIENCE CENTER, ROOM A100

12:30-12:45 P.M.

KRISTIN SANTANA

Hopping Hurdles to Leave Honduras: Telling My Mom's Story.

FACULTY MENTOR: Margaret Dorsey, Nathan Snaza

12:45-1:10 P.M.

SIMONE REID

"Hair Done, Nails Done, Everything Did!" The Construction of Black Feminine Selves.

FACULTY MENTORS: Bedelia Richards

1:10-1:25 P.M.

ALAN DECLERCK, NY'ASIA FLOWERS, AZIF FAZRIQ AZIZI

Enchanting Education: Scholarly Mentorship in Practice.

FACULTY MENTOR: Nathan Snaza

1:30-1:45 P.M.

SARAH SCHALKOFF

Intergenerational Communication and The Transfer of Cultural Knowledge: December 2022 Navigating the Coexistence of Language in Indonesia.

FACULTY MENTORS: Ni Wayan Ariati*, Kerstin M. Soderlund‡

1:45-2:00 P.M.

ESTHER HELM

The Path(s) to Independence: Comparative Study of the Circumstances of Independence in Senegal and Guinea-Conakry.

FACULTY MENTOR: Olivier Delers

2:00-2:25 P.M.

JOSEPHINE HOLLAND

Out-of-Time and Out-of-Place: Queer Horizons of Popular Culture.

FACULTY MENTOR: Kristin Bezio, Nathan Snaza

Poster Presentations

MODLIN CENTER FOR THE ARTS, BOOTH LOBBY

POSTER SESSION 1: 2:30-3:25 P.M.

KATHERINE WALKER

The Evolution of ADHD and Pharmacological Intervention.

FACULTY MENTOR: Laura Browder

POSTER #1

BRISEILY CEJUDO, AUDEN WILSON

Pollock Lab Pact Summer 2022.

FACULTY MENTOR: Julie Pollock

POSTER #2

SONIA MECORAPAJ

Incorporation of pBpf Unnatural Aminoacid to MEMO Protein .

FACULTY MENTOR: Julie Pollock

POSTER #3

EMMA KANE

Sodalis glossinidius, a Bacterial Symbiont of Tsetse Flies.

FACULTY MENTORS: Laura Runyen-Janecky

POSTER #4

HANGLIN ZHU, CORRINA STASIAK

Structure of Adenovirus Type 64 and Receptor Protein CD46.

FACULTY MENTOR: Eugene Wu

POSTER #5

Poster Presentations

POSTER SESSION 1: 2:30-3:25 P.M.

PETRA MIJIC

X-ray Crystallography of DNA Polymerase Binding RNA.

FACULTY MENTOR: Eugene Wu

POSTER #6

MEGAN CARSON

Using Mineral Surfaces to Synthesize RNA Oligonucleotides.

FACULTY MENTOR: Eugene Wu

POSTER #7

IAN SHOGREN

An Affordable Three-Dimensional (3D) Printed Two-Electrode Voltage Clamp Electrophysiology Recording Chamber.

FACULTY MENTOR: Linda Boland

POSTER #8

JILLIAN YATES

Evolution in Wing Morphology in *Zaprionus indianus*.

FACULTY MENTOR: Priscilla Erickson

POSTER #9

SAM MORGAN

Investigation of Diapause and Starvation Tolerance in the *Zaprionus indianus* Fruit Fly.

FACULTY MENTOR: Priscilla Erickson

POSTER #10

WILLIAM HEINLE

Experimental Evaluation of Detectability in Visual Search Surveys for Declining Turtle Species.

FACULTY MENTOR: Kristine Grayson

POSTER #11

REBECCA WALSH

Understanding the Physiological, Temporal, and Environmental Determinants of Forage Fish Caloric Content in the Gulf of Mexico.

FACULTY MENTOR: Kristine Grayson, Leaf Robert*

POSTER #12

Poster Presentations

POSTER SESSION 1: 2:30-3:25 P.M.

OLIVIA DAY, LUIS MONTANO

Investigating the *Agrobacterium tumefaciens* VirA Linker Region for Phenol Interaction.

FACULTY MENTOR: B. Dan Pierce

POSTER #13

MIKAYLA QUINN

Bryophytes of the Virginia Piedmont.

FACULTY MENTOR: John Hayden

POSTER #14

CATHERINE LEEDER

Measuring Chitinase Activity in *Sodalis glossinidius*.

FACULTY MENTORS: Laura Runyen-Janecky

POSTER #15

FABIANNA MORELL

Cloning SG1701 from *Sodalis glossinidius* to Restore PtsH Gene Function in *Escherichia Coli*.

FACULTY MENTOR: Laura Runyen-Janecky

POSTER #16

OLIVIA BEATTY

Screening for PTZ Sensitivity in STXBP1B Mutant Zebrafish.

FACULTY MENTOR: Colleen Carpenter

POSTER #17

PARKER ERNST

Implications of the Wildlife Trade on Ranavirus Infections in Native Turtle Populations.

FACULTY MENTOR: Jennifer Sevin, Jory Brinkerhoff

POSTER #18

KATIE ZERWEKH

Effects of *Oplismenus undulatifolius* on the Soil Microbiome of Invaded and Uninvaded Areas.

FACULTY MENTOR: Carrie Wu

POSTER #19

Poster Presentations

POSTER SESSION 1: 2:30-3:25 P.M.

TYLER CHONG

TMSOTf-Promoted Amide Propargylation.

FACULTY MENTOR: Wade Downey

POSTER #20

DONOVAN HOILETTE

The Nature of Bonding of Group 5 Oxyhalides: Sigma-hole Interactions and Charge Transfer.

FACULTY MENTOR: Kelling Donald

POSTER #21

NAM PHAM

Quantifying Electronic Effects Through Halogen Bonding: A Computational Assessment.

FACULTY MENTORS: Kelling Donald

POSTER #22

BENJAMIN SOLOMON, LUKE SIMKINS

Synthesis, Characterization, and X-ray Structure of 2-pyridyl naphthyridine Metal Complexes.

FACULTY MENTOR: Emma Goldman, Raymond Dominey

POSTER #23

SOPHIE GOLDBERG

Examination of 1,2-Bis(diphenylphosphine)benzene Nickel Complexes in C-N Cross-Coupling Reactions.

FACULTY MENTORS: Miles Johnson

POSTER #24

HOLLY WEMPLE

Nanomaterial Enhanced Xanthine-Hypoxanthine Xerogel Biosensors for Clinical and Industrial Measurements.

FACULTY MENTOR: Michael Leopold

POSTER #25

LINDSEY STEVENS

Concessions Uncovered: Westhampton Park in Context.

FACULTY MENTOR: Elizabeth Baughan

POSTER #26

Poster Presentations

POSTER SESSION 1: 2:30-3:25 P.M.

HANNAH FIECHTL

The Morrigan: Connections to Indo-European Mythology.

FACULTY MENTOR: Dieter Gunkel

POSTER #27

MANIHA ZEHRA AKRAM, BAILEY ROSSENFELD, JUSTIN BARRERA, GINNY ZHANG, YILI YU

Politics and Computer Science: Analyzing the Rhetoric of Congressmembers.

FACULTY MENTORS: Yucong Jiang

POSTER #28

JENNA DONALDSON, NA'DYAH WYNN, TOLYA EVDOKIMOV

Identifying Links Between Human Values and Persuasion.

FACULTY MENTOR: Joonsuk Park

POSTER #29

JOEL MURPHY, ALEX CHEATHAM, GRANT SZAJDA, LIZ SMITH, OSCAR WANG, DANIEL KATZ, CHRIST ATHIOGBEY, PAUL OCHEN, JENNIE CAMPBELL, THANDO TSELA, WALEED SAID, HENLEY SMITH, KRITIM RIJAL

Why do Voice Processing Systems Think the Way They Do?

FACULTY MENTORS: Doug Szajda

POSTER #30

ISRAA DRAZ, ALINA ENIKEEVA

Predicting ADHD Symptoms Using Smartphone Sensing Data.

FACULTY MENTORS: Shweta Ware

POSTER #31

KATHERINE MAZZER

Performing Math, Dancing to History: A Case Study on School Culture in an Arts-Integrated, Urban Middle School.

FACULTY MENTORS: Bob Spires[§]

POSTER #32

Poster Presentations

POSTER SESSION 1: 2:30-3:25 P.M.

ELENA DURAZO

Scaling Up, Scaling Down, Scaling Around: Transboundary Political Ecology of Climate Crisis Maps within an Ashaninka Community of the Amazon Borderlands.

FACULTY MENTOR: David Salisbury

POSTER #33

KATIE ANDERSON

Los Defensores de la Amazonía: A Comparison in the Forest Conditions and Ecosystem Service Indicators within Remote Indigenous Territories of the Southwestern Amazon.

FACULTY MENTOR: David Salisbury, Stephanie Spera

POSTER #34

SYDNEY THOMAS

Forest Disturbances, Evapotranspiration, and Land Surface Temperature in Indigenous Territories of the Amazon Borderlands of Ucayali, Perú and Acre, Brasil: Methods and Analysis.

FACULTY MENTOR: David Salisbury, Stephanie Spera

POSTER #35

VIOLET JETTON

Indigenous Resistance of Informal Road Expansion in the Amazon Borderlands of Ucayali, Peru and Acre, Brazil.

FACULTY MENTOR: David Salisbury, Stephanie Spera

POSTER #36

ELSPETH COLLARD

COVID-19 within Indigenous Communities of the Southwestern Amazon: A Transboundary Case Study / COVID-19 dentro de las comunidades indígenas de la Amazonía suroeste: un estudio de caso transfronterizo.

FACULTY MENTOR: David Salisbury, Stephanie Spera

POSTER #37

LETICIA DE ALMEIDA SBROCCA

Political Ecology of a Critical Election for Amazonia: A Comparative Analysis of Environmental Policies of Lula and Bolsonaro.

FACULTY MENTOR: David Salisbury, Stephanie Spera

POSTER #38

Poster Presentations

POSTER SESSION 1: 2:30-3:25 P.M.

COURTNEY SIMPSON

Campinus Katukina.

FACULTY MENTOR: Stephanie Spera, David Salisbury

POSTER #39

NATHAN WINIARSKI

Informal Roads in the Peruvian Amazon: An Ucayali Case Study.

FACULTY MENTOR: Stephanie Spera, David Salisbury

POSTER #40

TEREZA HERNANDEZ

The Geolocation of Social Media Posts about the Proposed UC-105/Interoceanica Centro Road in the Amazon Borderlands of Peru.

FACULTY MENTOR: Stephanie Spera, David Salisbury

POSTER #41

JONAH REISBOARD

No Strings Attached: Learning and Collaboration in the Sino-Zimbabwe Surveillance Relationship.

FACULTY MENTOR: Dan Chen

POSTER #42

CAROLINE DAMIANI

Gabriel Boric & the Fearless Generation: A Generational Shift in Chilean Politics.

FACULTY MENTOR: Jennifer Pribble

POSTER #43

VAHN CORROTHERS, NATE JARED, HEIDI YUAN, YOUNG YAO, ELI CHANCEY, LU LIU

Distributed Denial of Service Attacks Through the Lens of Mathematical Game Theory.

FACULTY MENTOR: Michael Kerckhove

POSTER #44

PAEAN LUBY

Beyond the Neurons: Comparing the Cerebrovasculature of Wild and Lab Rats.

FACULTY MENTOR: Kelly Lambert

POSTER #45

Poster Presentations

POSTER SESSION 1: 2:30-3:25 P.M.

SYDNEY BOEHMAN

The Effects of TBI on Post-traumatic Epilepsy.

FACULTY MENTOR: Paul Koch*, Shannon Jones

POSTER #46

EMMA KENNEDY

Effect of Sports Participation on Health Outcomes for Immigrant Youth.

FACULTY MENTOR: Volha Chykina†, Christopher Von Rueden†

POSTER #47

CARO BISESE

Resewing the Fabric of Femininity: the Evolution of Prada and the Role of Women's Fashion in Feminism.

FACULTY MENTORS: Lidia Radi

POSTER #48

CLAIRE O'SHAUGHNESSY

The Project that Claire, Uh I Mean the Student Completed: Relative Clauses and Repair Disfluencies.

FACULTY MENTORS: Matthew Lowder

POSTER #49

EMMA HICKERSON

A psychological exploration of political polarization: the role of identity, (counter-) empathy, and social affiliation.

FACULTY MENTOR: Kristjen Lundberg

POSTER #50

JARED BRASSIL

Justifying Antipathy? How Racialized Perceptions of Incarceration Impact Support for Mental Healthcare in Prisons.

FACULTY MENTOR: Kristjen Lundberg

POSTER #51

HELEN WALLACE

Parent Perceptions of Critical Race Theory in the Elementary School Curriculum.

FACULTY MENTOR: Kristjen Lundberg

POSTER #52

Poster Presentations

POSTER SESSION 1: 2:30-3:25 P.M.

WILSON BERRY

The Effects of Diversity, Equity, and Inclusion Initiatives on Perceptions of LGBTQ+ Discrimination.

FACULTY MENTOR: Kristjen Lundberg

POSTER #53

MCKENNAH LAUBER

Why Diversity is Not Enough: Perceptions of University Diversity, Equity, and Inclusion (DEI) Initiatives and Their Relationship to Institutional Belonging.

FACULTY MENTOR: Kristjen Lundberg

POSTER #54

KATHRINA DURANTE

Perceiving the Poster: How Suspicion of Motives May Impact Perceptions of Potential Allies Engaging in Online Activism.

FACULTY MENTOR: Kristjen Lundberg

POSTER #55

EVE RIDENHOUR

Hometown Diversity and Race Essentialism: Further Exploring the Role of High-Quality Interracial Friendships.

FACULTY MENTOR: Kristjen Lundberg

POSTER #56

PATRICK SUTPHIN

Examining Spontaneous Neural Activity Patterns in Developmental Prosopagnosia Using Resting State EEG.

FACULTY MENTOR: Maruti Mishra, Cindy Bukach

POSTER #57

DANIELLE MAXWELL, LAUREN CARTER, AVERY ROTHSTEIN

The Effect of Felt Misunderstanding on Self-Other Discrepancies in Pain Experience and Reporting: A Pilot Study.

FACULTY MENTOR: Brandon Ng

POSTER #58

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

JACK DUPUY

Analyzing how Spatial and Temporal Trends Impact Snow Season Variability in Old-Growth Forests of the Pacific Northwest.

FACULTY MENTOR: Todd Lookingbill

POSTER #1

LIV CLAYTON, GRACE CHAHAL, LAY'LA HARMON

Cognitive Interviewing to Gather the Public's Views on Organ Donation.

FACULTY MENTOR: Camilla Nonterah

POSTER #2

JENNA MILLER, ESTHER KIM

Isolation of Soil Microbes and Screening for Antimicrobial Activity Against ESKAPE Pathogens.

FACULTY MENTOR: Jonathan Dattelbaum

POSTER #3

SADIE WENGER

Biophysical Characterization of a Putative Amino Acid Binding Protein from *Thermotoga maritima*.

FACULTY MENTORS: Jonathan Dattelbaum

POSTER #4

MOHAMAD HUSSEIN, JOSEPH COYLE

Alkylation of Amides with Allyl Propionates.

FACULTY MENTOR: Wade Downey

POSTER #5

NICOLE SCHREIBER

Insights into the Incorporation and Mutagenic Potential of OdGTP Using Nucleotide Analogues.

FACULTY MENTOR: Michelle Hamm

POSTER #6

EVAN WOLFF

Investigation of Para-methoxybenzylamines as Peptide-based Ceavable Linkers.

FACULTY MENTOR: Christopher Shugrue

POSTER #7

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

MARCOS HENDLER

Coupled Phosphorus-Bridging in Eneidyne and the Bergman Cyclization.

FACULTY MENTOR: Carol Parish

POSTER #8

MADELINE BULLOCK, SALINA ADHANOM

Effects of Diesel on RAW 264.7.

FACULTY MENTOR: Shannon Jones

POSTER #9

TSERING COLE

Effects of Diesel Emission Particles on A549 Epithelial Lung Cell Line.

FACULTY MENTOR: Shannon Jones

POSTER #10

LINDSEY ABELLARD, JUDITH ASARE

Examining the Inflammatory Response of RAW264.7 Macrophages When Exposed to Woodsmoke.

FACULTY MENTOR: Shannon Jones

POSTER #11

ANNA LIU

Investigating the Effects of Woodsmoke Particulates on RAW 264. 7 Mouse Cell Line and the Anti-Inflammatory Effects of EGCG.

FACULTY MENTORS: Shannon Jones

POSTER #12

ANH NGUYEN

Validation of Computational Models to Predict the Mutagenic Potential of Extractable and Leachable Compounds.

FACULTY MENTORS: Shannon Jones

POSTER #13

ELENA MECCHI, DAVID CARPIO

Ectopically Expressed, “Stiff-Necked” MYO10 is Capable of Carrying Out Some of the Functions of Wild-Type MYO10.

FACULTY MENTORS: Omar Quintero-Carmona

POSTER #14

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

AELAN SNYDER

Investigations into the Calcium and Light-Chain Regulation of MYO10 Function on Filopodial Formation.

FACULTY MENTORS: Omar Quintero-Carmona

POSTER #15

JULIA MALACHOWSKI

Early Life & Development of the Bluehead Chub Fish.

FACULTY MENTOR: Isaac Skromne

POSTER #16

BEZAWIT MULATU

Characterization of Functionalized Carbon Dots and Their Interactions With Bone: Toward the Development of Bone-Specific Nanocarriers for Drug Delivery.

FACULTY MENTOR: Isaac Skromne

POSTER #17

OLIVER KLEMMER

Namibian Nematode Niches: Application of Ecological Niche Modeling to Desert Soil Microbiota.

FACULTY MENTORS: Amy Treonis

POSTER #18

LONDON NEMMERS

Drying Without Dying; Determining the Survival Strategy of a Namib Desert Nematode.

FACULTY MENTOR: Amy Treonis

POSTER #19

CHRISTOPHER RAWSON

Characterization of a Novel Nematode (*Panagrolaimus* sp.) from the Namib Desert.

FACULTY MENTOR: Amy Treonis

POSTER #20

SOPHIA JACKSON

Detection and Characterization of Wolbachia in Proturans.

FACULTY MENTOR: Amy Treonis

POSTER #21

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

HUNG PHAM

HAT Tip60 Down Regulation Effects on Degeneration in a Drosophila Model of Machado-Joseph Disease.

FACULTY MENTORS: John Warrick

POSTER #22

KELSEY HART

Regulation of CnC, the Oxidative Stress Response in a Drosophila Model for Machado-Joseph Disease.

FACULTY MENTOR: John Warrick

POSTER #23

SARAH CLARK

Machado-Joseph Disease in Drosophila Model: Increased HAT Tip60 Expression and Its Influence on Aggregation and Axon Blockages.

FACULTY MENTORS: John Warrick

POSTER #24

RYAN CVELBAR

The Effect of DREDD Regulation on the Innate Immune Response and Neurodegeneration in MJD Models.

FACULTY MENTORS: John Warrick

POSTER #25

MADDIE OLVEY

The Jōmon and Ancient Coastal Connections to Mainland East Asia.

FACULTY MENTORS: Melinda Yang

POSTER #26

ELENA ZERKIN

The Orthologous Gene in Drosophila persimilis for Roc1a in D. melanogaster.

FACULTY MENTOR: Melinda Yang

POSTER #27

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

SKYLER HE

Assessing Validity of Sample Groups in Studying Continuity in *Zapionus indianus* of Virginia.

FACULTY MENTOR: Melinda Yang

POSTER #28

ARJUN GOSWITZ

Iron Oxide Nanoparticle and Cryoprotective Agent Quantification with NMR T1 Relaxometry and UV-vis Spectroscopy.

FACULTY MENTOR: Chris Stevenson, John Bischof*

POSTER #29

NOAH ROBINSON

Propensities for Halogen Bonding for Halides Bonded to Central Atoms Below Period 2.

FACULTY MENTOR: Kelling Donald

POSTER #30

DONOVAN HOILETTE

The Nature of Bonding of Group 5 Oxyhalides: Sigma-hole Interactions and Charge Transfer.

FACULTY MENTORS: Kelling Donald

POSTER #31

NAM PHAM

Quantifying Electronic Effects Through Halogen Bonding:
A Computational Assessment.

FACULTY MENTOR: Kelling Donald

POSTER #32

MACKEY SHERARD, HARRY DANG, SOPHIA REIFF

Detection of Neonicotinoids Using Functionalized Nanoparticles and Halogen Bonding.

FACULTY MENTOR: Michael Leopold, Jeffrey Simpson

POSTER #33

ALEXA CONNORS

Alkylation of Ketones and Thioesters with Propargyl and Allyl Carboxylates.

FACULTY MENTOR: Wade Downey

POSTER #34

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

NEHAL ASIF

CO₂ Reduction Using an Organocatalyst.

FACULTY MENTOR: Michael Norris

POSTER #35

AMY BAKRY

Predicting the Energy Barrier of Bergman-Like Cyclization Reactions.

FACULTY MENTOR: Carol Parish

POSTER #36

KHANH VU

Finding MEMO.

FACULTY MENTOR: Carol Parish

POSTER #36

SEBASTIAN MENDOZA-GOMEZ

Spin Flip CCSD Characterization of Furan.

FACULTY MENTOR: Carol Parish

POSTER #37

MAAZ RAO

Barriers Project.

FACULTY MENTORS: Carol Parish

POSTER #38

JOHN BLOBE

Exploration of Heterocycles as Peptide-Based Cleavable Linkers.

FACULTY MENTOR: Christopher Shugrue

POSTER #39

LIZZY TAGGART

Oxazoles as Cleavable Linkers for the Capture and Release of Peptides.

FACULTY MENTOR: Christopher Shugrue

POSTER #40

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

ASHLY AVILA, ABIGAIL DALTON

Reactivity of Sulfonamide Cleavage Reactions.

FACULTY MENTOR: Christopher Shugrue

POSTER #41

GRACE MARTIN

Worldmaking Via Solar Energy: Analyzing Power in Puerto Rico as a Case Study.

FACULTY MENTOR: Mary Finley-Brook

POSTER #42

MATTEO GONZALEZ

Testing the Accuracy of HOBO Data Loggers to Find the Best Snow Melt Metric.

FACULTY MENTOR: Todd Lookingbill

POSTER #43

ELLERY JACOBS

Tracking Community Dynamics of the True Fir-Western Hemlock Ecotone in the Western Cascade Mountains.

FACULTY MENTOR: Todd Lookingbill

POSTER #44

ANNA FORTUNATO, VAHN CORROTHERS, SHERRY QIU, JENNIE CAMPBELL, LEYAO LIANG, NEHA KALWALA

Exploring the Pipeline for Women in STEM and Related Fields.

FACULTY MENTOR: Della Dumbaugh, Maia Linask[†]

POSTER #45

YULIA SHATALOV, BELLA TOME

A Neurobiological Investigation of Unpredictable Positive Experience Responses (UPERs) in Female *Rattus norvegicus*.

FACULTY MENTOR: Kelly Lambert

POSTER #46

ELIJAH ESTOLL

Toward Faster Simulation of Cosmological Inflation in N-Dimensional Random Gaussian Fields with Algorithmic Data Compression.

FACULTY MENTOR: Emory (Ted) Bunn

POSTER #47

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

SANTIAGO MESSMACHER MONTES DE OCA

Gibbs Sampling.

FACULTY MENTOR: Emory (Ted) Bunn

POSTER #48

MANASA RAJEEV

Effect of Chain Entanglement on Mechanical Properties of Electrospun Polycaprolactone Fibers.

FACULTY MENTORS: Christine Helms

POSTER #49

ANNA MURDOCK, COLLEEN ASPELL

Do Traits of Autism Spectrum Disorder in the Typically Developing Population Relate to Early Face Processing as Measured by the N170 and N250 Neural Signals?

FACULTY MENTOR: Cindy Bukach

POSTER #50

HANNAH BEHAR

The Big Five and Dark Triad: The Role of Personality in the Development of Passion.

FACULTY MENTORS: Violet Ho[†]

POSTER #51

YUEYI FAN

Assessing the Dynamic Amongst Self-compassion, Connection to Nature, and Well-Being.

FACULTY MENTOR: Laura Knouse

POSTER #52

YUEYI FAN, VALDEZ SAMPSON, ADITYA NARAYANAN

Psychometrics and Validation of a 2-Dimensional Revision of the ADHD Cognitions Scale (ACS-7) Using Ecological Momentary Assessment.

FACULTY MENTOR: Laura Knouse

POSTER #53

HOOR UL AIN

The Association Between Food Related Intrusive Thoughts (FRITs) and Affect.

FACULTY MENTOR: Laura Knouse

POSTER #54

Poster Presentations

POSTER SESSION 2: 3:30-4:25 P.M.

SAMARA ROSEN

The Role of Loneliness in the Relationship Between Social Media and Depression.

FACULTY MENTOR: Karen Kochel

POSTER #55

KATELYN SZARKO

Maladaptive Social Cognitions and Peer Victimization in Elementary-Aged Students.

FACULTY MENTOR: Karen Kochel

POSTER #56

JEAN PAUL DORION, EVELYN BARRINGER

The Diverse Brain: Neurological examination of Raccoon and Skunk Brains.

FACULTY MENTOR: Kelly Lambert

POSTER #57

DANIELLE MAXWELL

The Inescapable Stigma of a Label: Bias in the Perceptions of Felons' Pain.

FACULTY MENTOR: Brandon Ng

POSTER #58

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

MARY MANCHING

Asians in America SSIR Presentation.

FACULTY MENTOR: Tze Loo, Jennifer Erkulwater

POSTER #1

JADINE CAGUICLA

Asians in America SSIR Presentation.

FACULTY MENTORS: Tze Loo, Jennifer Erkulwater

POSTER #2

YESUEL JUN

Asians in America SSIR Presentation.

FACULTY MENTORS: Jennifer Erkulwater, Tze Loo

POSTER #3

AMAL ALI

Asians in America SSIR Presentation.

FACULTY MENTOR: Jennifer Erkulwater, Tze Loo

POSTER #4

CHISE UEDA

Asians in America SSIR Presentation.

FACULTY MENTOR: Jennifer Erkulwater, Tze Loo

POSTER #5

RIZZA MOJADOS

Asians in America SSIR Presentation.

FACULTY MENTOR: Tze Loo, Jennifer Erkulwater

POSTER #6

MARIAM LOMTADZE

Asians in America SSIR Presentation.

FACULTY MENTOR: Tze Loo, Jennifer Erkulwater

POSTER #7

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

SANJNA KAUL

Asians in America SSIR Presentation.

FACULTY MENTOR: Tze Loo, Jennifer Erkulwater

POSTER #8

LILA TAYLOR, VIR SHANMUGAM, MILO MICHALCZEWSKI, SCHUYLER DOUCETTE

Attitudes Towards International Variations of New York City Englishes: A Perceptual Dialectology FYS Project.

FACULTY MENTOR: Elizabeth Kissling

POSTER #9

CHRISTINE KUYKENDALL, CONNER PARTIN, KATIE BLOOM

Attitudes About Dialects of the UK.

FACULTY MENTORS: Elizabeth Kissling

POSTER #10

MIA STAVOLA, MAIRIN CONRAD, STELLA (ZHOUJI) WU, LEO CHEN

A Perceptual Dialectology Study of New York City Englishes.

FACULTY MENTORS: Elizabeth Kissling

POSTER #11

SIMRAN GUPTA, ISABELLA CASTILLO, MOHAMED ADAM

Analyzing Methods of Measuring HIV Viral Load.

FACULTY MENTOR: Shannon Jones, Michael Norris

POSTER #12

KEIANI NISTAL, SANSKRITI BASNYAT, JACOB MARTIN

SMART Labs Overview Spring 2023.

FACULTY MENTOR: Shannon Jones, Michael Norris

POSTER #13

REMI GRAFF, MIO MONTELONGO, SAM CHIAINO, CHRISTIAN FIGUEROA

The Evaluation of HIV in Biology and Chemistry.

FACULTY MENTOR: Shannon Jones, Michael Norris

POSTER #14

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

SHAKERA PATTERSON, NOOR ABDULLAH, SABRINA FERRER, DEVIN MORGAN

HIV and Infectious Diseases.

FACULTY MENTORS: Shannon Jones, Michael Norris

POSTER #15

HEIDI BEAL, BEN GRACE, JOSIAS COLLIER, LEAH SUGGS

SMART Investigations Into HIV.

FACULTY MENTOR: B. Daniel Pierce

POSTER #16

MARIANNE PACKER, ARIEL SEIDU, LAETICIA TAMUFOR

Exploration of the Biological Impacts of HIV.

FACULTY MENTORS: B. Daniel Pierce, Emma Goldman

POSTER #17

ISAAC HERNANDEZ, SOFIE ABERG, AVA FRODSHAM

Exploring the Mechanisms of HIV.

FACULTY MENTOR: B. Daniel Pierce, Emma Goldman

POSTER #18

PAIGE KOKOLIS, MADISON TRIPPETT, ISMAR ALICKOVIC, JUSTIN PARK

An Investigation into the Role of the Greb1 Gene in Tailbud Development in Zebrafish.

FACULTY MENTORS: Isaac Skromne

POSTER #19

CORINA STASIAK, OLIVIA BEATTY, AKRAM ALMANSOB, ALEXSAS MWANGO MISOKA

Investigating the Connection Between the Mlt3 and Cdx4 Gene in Zebrafish Embryonic Development.

FACULTY MENTOR: Isaac Skromne

POSTER #20

EVAN WOLFF, LIZZY TAGGART, NOLAN SYKES, JACKIE BISSO

Expression Analysis of Sp5l and Cdx4 Regulatory Network.

FACULTY MENTOR: Isaac Skromne

POSTER #21

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

TOM COLUCCI, MEGAN CARSON, ANUSH MARGARYAN, PETRA MIJIC

Exploring the Function of the CXCL12 Gene in Zebrafish Embryos.

FACULTY MENTOR: Isaac Skromne

POSTER #22

**PAXTON MILLS, CHASE CRISTELLA, JOANNA MAS, KAITLYN CAMERA,
ZACHARY RUGHAVAR**

Hook, Line, and Sinkers: Surveying Seafood Mislabeling in the Greater Richmond Area.

FACULTY MENTOR: Carrie Wu

POSTER #23

**ALIVIA PALALAY, PING YEN JEFF TSAI, FERNANDA MOYA-QUEZADA, CAITLYN
HALL, ALEXANDRA SULLIVAN, KAIXIANG JASON LIANG**

Something's Fishy.

FACULTY MENTOR: Carrie Wu

POSTER #24

**JASON LIANG, JEFF TSAI, GAVIN CLAUSEN, ALIVIA PALALAY,
ALEXANDRA SULLIVAN, CAITLYN HALL, FERNANDA MOYAQUEZADA**

Fish Mislabelling.

FACULTY MENTOR: Carrie Wu

POSTER #25

FELIX MINAMI, KINGSLEY DWOMOH, EVELYN RAMIREZ

Continuous Flow Synthesis of Polysubstituted Pyrroles.

FACULTY MENTOR: Raymond Dominey, Emma Goldman

POSTER #26

EVELYN RAMIREZ, KINGLSEY DWOMOH, FELIX MINAMI

Continuous Flow Synthesis of Chloroenals.

FACULTY MENTOR: Raymond Dominey, Emma Goldman

POSTER #27

CHARLES BIAKU, ANNA NGUYEN, NOAH NANEZ, JOCELYN SOLANO

The Machinations of HIV.

FACULTY MENTOR: B. Daniel Pierce

POSTER #28

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

SKY MARSICANO, MAYA ALLIONE

Tiny Earth - Discovering and Isolating Antimicrobial Soil Bacteria Against Safe ESKAPE Pathogens.

FACULTY MENTOR: Jonathan Dattelbaum, Shannon Jones

POSTER #29

HANNAH LWIN, JIMMY CHENG

Screening for Antibiotics... in Soil?

FACULTY MENTORS: Jonathan Dattelbaum, Shannon Jones

POSTER #30

CHLOE NGO, LEILA LIN

Natural Solutions: Screening for Antibiotic Bacteria in Soil Samples.

FACULTY MENTOR: Jonathan Dattelbaum, Shannon Jones

POSTER #31

PETERSON HAAS

Defining Mechanisms Driving the Initiation and Progression of Human Prostate Cancer.

FACULTY MENTOR: B. Daniel Pierce, Omar Quintero-Carmona

POSTER #32

ANUSH MARGARYAN

The Role of NHE1 Activity in the Spindle Dynamics in Mouse Embryonic Stem Cells (mESCs).

FACULTY MENTORS: Isaac Skromne, Diane Barber*

POSTER #33

SAOIRSE LANDERS

Investigating Cerium(IV) Antimicrobial Properties.

FACULTY MENTOR: Dominique Williams

POSTER #34

JOSHUA PANDIAN

The effect of tick exposure on rodent gut microbiome composition.

FACULTY MENTOR: Jory Brinkerhoff

POSTER #35

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

MORIAM ANIMASHAUN

Markers of Epilepsy.

FACULTY MENTOR: Colleen Carpenter

POSTER #36

JERRY HE

Exploring Cold Tolerance Differences among *Zaprionus indianus* Populations using DAM system.

FACULTY MENTOR: Priscilla Erickson

POSTER #38

HALEY GLADDEN

Phenol Response Analysis of Insertions in the SIN node of the VirA Histidine Kinase.

FACULTY MENTOR: B. Daniel Pierce

POSTER #39

LAUREN KNOPP, DANNY FRASCELLA

Functional Analysis of Retinoic Acid Receptors in the Development of the Zebrafish Hindbrain and Spinal Cord.

FACULTY MENTOR: Isaac Skromne

POSTER #40

WESLEY TSAI

Role of *cdx4* and *sp5l* in Zebrafish Development.

FACULTY MENTORS: Isaac Skromne

POSTER #41

MIDHUN SREE MANOJ

Downregulation of Oxidative Stress Regulator Keap1 in a *Drosophila* Model in MJD.

FACULTY MENTOR: John Warrick

POSTER #42

ANASTASIA SHEHADY

Effects of Acetyltransferase Tip60 on Synaptotagmin in *D. melanogaster*.

FACULTY MENTOR: John Warrick

POSTER #43

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

ALEX ROBERTSON

CD46 is a Protein Receptor for Human Adenovirus Type 64.

FACULTY MENTOR: Eugene Wu,

POSTER #44

BRENDAN CROCKETT

Brains Gone Wild: Neurobiological Comparison Between Wild and Captive Rattus norvegicus.

FACULTY MENTOR: Kelly Lambert, Sarah Tryon

POSTER #45

GREG HUGHES, OLIVIA LAMBERTSON

Synthesis of 2,3-dihydroisoxazoles from Ketones and N-benzyl nitrones.

FACULTY MENTOR: Wade Downey

POSTER #46

CHARLI CHEN

Spin Flip CCSD Characterization of Thiopehen.

FACULTY MENTOR: Carol Parish

POSTER #47

ABIGAIL DALTON, ASHLY AVILA

Reactivity of Sulfonamide Cleavage Reactions.

FACULTY MENTORS: Christopher Shugrue

POSTER #48

SOFIA DIMOTSI, ETHAN SWIFT

Studying ADHD Using Smartphone Sensing and Ecological Momentary Assessment (SASSEMA) iOS App Development.

FACULTY MENTOR: Shweta Ware

POSTER #49

SIMENG LI, RUIYI LIU, MENGLE HU

Analyzing the Statistical Effectiveness of Diagnostic Tests for COVID-19 Using the ROC Curve.

FACULTY MENTOR: Paul Kvam

POSTER #50

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

NICOLAS FERREE

Constraining H0 Via Extragalactic Parallax.

FACULTY MENTOR: Emory (Ted) Bunn

POSTER #51

CHLOË STECKART, NATALIE BENHAM

How Self-reported Motivation to Control Prejudice in Biracial Individuals Influences Facial Processing Flexibility.

FACULTY MENTOR: Cindy Bukach

POSTER #52

RAZAN KHALIL

Disparities in Kidney Transplantation Access: A Focus on Disability Status and Other Identities.

FACULTY MENTOR: Camilla Nonterah, Shelby Smout

POSTER #53

HELENE LEICHTER

separate | SPHERES|

FACULTY MENTOR: Anne Van Gelder

POSTER #54

ALEX BROENING

Lighting Design for *The Door Between Worlds* and *separate* | SPHERES|.

FACULTY MENTORS: Maja White

POSTER #55

ELINA BHAGWAT

Vote Switching in the Warren Court – Civil Rights and Liberties.

FACULTY MENTOR: Jennifer Bowie

POSTER #56

ELIZA POLUKHIN

Who's More Right.

FACULTY MENTORS: Jennifer Bowie

POSTER #57

Poster Presentations

POSTER SESSION 3: 4:30-5:25 P.M.

KYLE PUCHALLA

Dissecting the Role of Serotonin Receptors in the Mechanism of Novel Antiepileptics Against Dravet Syndrome.

FACULTY MENTORS: Colleen Carpenter-Swanson

POSTER #58

* Faculty affiliated with other institutions.

† Faculty affiliated with the Robins School of Business

‡ Faculty affiliated with the Jepson School of Leadership

§ Faculty affiliated with the School of Professional & Continuing Studies

Symposium Reception

5:30-7:30 P.M.

GOTTWALD ATRIUM

KEYNOTE ADDRESS BY ANDREW MARANTZ

Andrew Marantz is a staff writer at *The New Yorker*, where he has worked since 2011. His writing has also appeared in *Harper's*, *New York*, *Mother Jones*, the *New York Times*, and elsewhere. He is the author of *Antisocial: Online Extremists, Techno-Utopians, and the Hijacking of the American Conversation*, which was published in 2019 and was named a best book of the year by the *New York Times*, *Publishers Weekly*, and many other publications.

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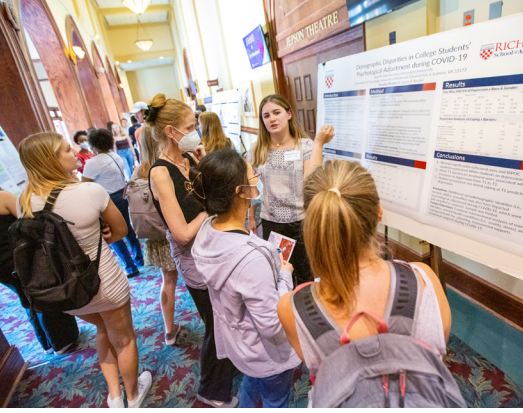
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