

A&S STUDENT SYMPOSIUM 39TH ANNUAL

FRIDAY, APRIL 19, 2024
12:30–5:30 P.M.

MODLIN CENTER FOR THE ARTS

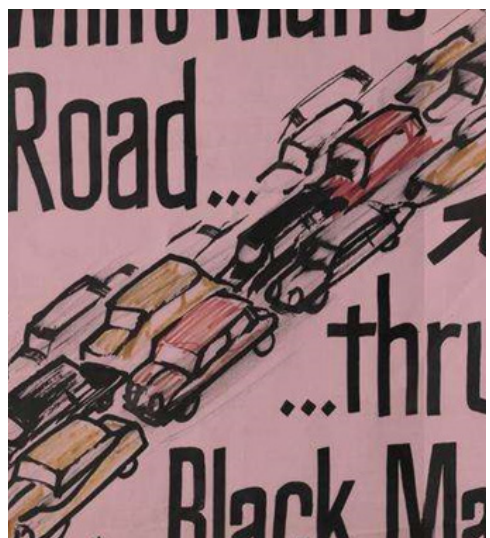
A&S RECEPTION
5:30 - 7:00 PM

EVERYONE

DEPARTMENT OF THEATRE &
DANCE PERFORMANCE

7:30 PM

as.richmond.edu





A TRADITION OF CELEBRATING
OUR
COMMUNITY
OF LEARNERS



Welcome

Dear Friends and Colleagues,

One of the big events at the University of Richmond that brings us to the end of the spring semester and the academic year is (no, not the pollen) the annual Arts & Sciences Student Symposium. Each April, students from across the campus and disciplines gather to share their research, scholarship, and creative works with each other and with the entire University community in this great meeting. I am proud to have coordinated this and the previous two Symposiums.

We received over 250 entries to the Symposium this year on topics ranging from comparisons of wars in Iraq and Ukraine and how roads in Amazonia threaten forests and indigenous communities to octopus behavior and planetary health. The Symposium begins with oral sessions in Booker Hall, Gottwald Science Center, and Keller Hall starting at 12:30 p.m. and follows with three hour-long poster sessions in the Booth Lobby of the Modlin Center for the Arts from 2:30-5:30 p.m. You are encouraged to attend whole oral sessions, but if you want to go to multiple sessions, please enter and exit rooms during transitions between presentations to avoid disrupting our speakers. Please make time to visit the art exhibitions in Keller Gallery (1:20-2:30 p.m.) and Keller Hall Art Lounge (4:00-4:30 p.m.) and a performance and analysis of a Beethoven Sonata (3:00-3:30 p.m.) in Perkinson Recital Hall. The Symposium is truly a spectacular display of student work across the arts and the sciences.

As always, there are so many members of our community who have contributed to making this event possible. The remarkable faculty of the School of Arts & Sciences mentored and guided the journeys of all the students presenting today. The Dean of Arts & Sciences, Jennifer Cavanaugh, and the Undergraduate Research Committee, including Associate Dean Kelling Donald, have worked all year to provide funding for the work before you. I will be forever indebted to the administrative staff of Arts & Sciences, particularly Jennifer Lo Prete, Barb Schaible, Stacy Hull, and Robert Plymale, for all the behind-the-scenes work to make the Symposium a reality. A sincere thank you to Paul Brohan and Chris O'Neil at the Modlin Center for the Arts for making the facility available.

Enjoy the Symposium! Converse, network, exchange ideas, and learn. At the end of the last poster session, please gather with our entire community in the Booth Lobby at our reception from 5:30 to 7:00 p.m. to reflect on the day. Then, stay for the performance of *Everybody*, a play by Branden Jacobs-Jenkins directed by Julie Fulcher, at 7:30 p.m. Together with the A&S Honors Convocation, the A&S Student Symposium makes this April 19 the big day to celebrate the academic year!

Sincerely,



Eugene Wu, Ph. D.

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

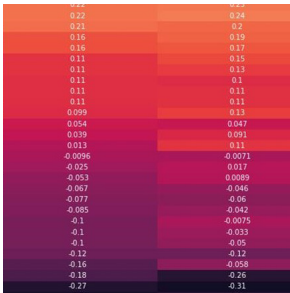
On the cover

STUDENT-LED, FACULTY-MENTORED WORK

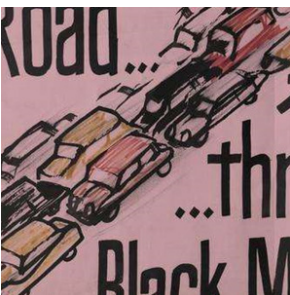
The School of Arts & Sciences remains committed to supporting undergraduate research through A&S Summer Fellowships, part of the Richmond Guarantee program. Whether it's in the lab, the art studio, or the archives, student-led, faculty-mentored is a hallmark of the School of Arts & Sciences experience.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



Hannah Zaheer, '25, a philosophy, politics, economics, and law program (PPEL) major with minors in dance and health studies, choreographed a dance piece titled *In Changing, We Stay*, mentored by Alicia Diaz, associate professor of dance. The piece is based on research regarding conceptions of the self and self-understanding, which intertwines the philosophy aspect of Zaheer's academic major and passion for dance. The choreographic process included collaboration with a costume design mentor and student lighting designer to create the design elements for the piece's performance. The photo is by Ethan Swift.



"Understanding ADHD with Machine Learning Models: a novel approach to detecting ADHD behaviors through app usage data" is an effort to explore the feasibility of predicting attention-deficit/hyperactivity disorder (ADHD) in college-age students using smartphone app usage data. Majoring in computer science and mathematics, Kritim K. Rijal, '25, worked under the mentorship of Dr. Shweta Ware, assistant professor of computer science, and in collaboration with Dr. Laura Knouse, professor of psychology. Data collected from a research study, SASSEMA, was analyzed to find a correlation between the ADHD state of participants and their digital behaviors, and a family of machine-learning models was constructed for ADHD prediction.



Mentored by Patricia Herrera, professor of theatre and dance, Liam Keenan, '24, a theatre arts major, explored Richmond's transportation history and the associated racial and economic inequalities in "Displacement through Transportation and Speculation in Richmond, Virginia." Keenan asserts that displacement is a form of transportation in Richmond, born from the City's role as the slave trading capital of the Upper South. Streetcars enabled white flight to suburbs, while buses became related to marginalized groups, segregating communities and reinforcing hierarchies. Suburban expansion further divided Richmond and restricted access to transportation and economic opportunities.

Table of Contents

Locations & Times	4
Artist Exhibitions & Performances	5
Oral Presentations	7
Who We Are	7
Storytellers	8
It's a Complicated World	9
Expression	11
Latin American, Latino, & Iberian Studies Symposium	12
Political Science Symposium	15
Science & Mathematics	17
History Symposium	18
Poster Presentations	21
Session 1: 2:30-3:25 P.M.	21
Session 2: 3:30-4:25 P.M.	30
Session 3: 4:30-5:25 P.M.	39
Reception + Department of Theatre & Dance Performance	47
Research Opportunities	48
Notes	49

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. Thank you to Kim Lee Schmidt Photography for documenting the Symposium.

Locations & Times

Friday, April 19

MODLIN CENTER FOR THE ARTS

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

M104 | Artist Presentations, 1:00-2:15 P.M.

BOOTH LOBBY | Reception, 5:30-7:00 P.M.

BOOKER HALL

ROOM B102, B207, B226 | Oral Presentations, 12:30-5:20 P.M.

NORTH COURT

PERKINSON RECITAL HALL | Student recital, 3:00-3:30 P.M.

GOTTWALD CENTER FOR THE SCIENCES

ROOM A100, A201, D308, E305 | Oral Presentations, 12:30-3:35 P.M.

KELLER HALL

ROOM V206 | Oral Presentations, 12:30-3:00 P.M.

ART GALLERY | Artist Exhibitions, 1:00-4:30 P.M.

ART & ART HISTORY LOUNGE | Artist Exhibitions, 4:00-4:30 P.M.

WEINSTEIN HALL

BROWN-ALLEY ROOM | Oral Presentations, 12:30-1:30 P.M.

Artist Exhibitions & Performances

KELLER HALL, ART GALLERY

1:00-1:20 P.M.

ELLA THOMPSON-BURR

Who Was I Then, Who Am I Now?

FACULTY MENTOR: Sandy Williams IV

1:20-1:40 P.M.

MARGARET LAZAR

A Visual Baseline.

FACULTY MENTORS: Sandy Williams IV, Lauren Tilton

1:45-1:55 P.M.

ADRIEN TYLER

Contains Multitudes.

FACULTY MENTOR: Sandy Williams IV

2:00-2:10 P.M.

JENNA DONALDSON

Look or See.

FACULTY MENTOR: Sandy Williams IV

2:10-2:20 P.M.

FABIANNA MORELL

Yo Confieso.

FACULTY MENTORS: Sandy Williams IV, Erling Sjovold

Artist Exhibitions & Performances

2:20-2:30 P.M.

EVA STEINITZ

Forms of Relation.

FACULTY MENTOR: Sandy Williams IV

ART & ART HISTORY LOUNGE

4:00-4:15 P.M.

JENNA DONALDSON

Handle with Care.

FACULTY MENTOR: Tanja Softić

4:15-4:30 P.M.

GEORGIA LEAKEY

Fatness and Self in Space.

FACULTY MENTOR: Agnieszka Szymańska

NORTH COURT, PERKINSON RECITAL HALL

3:00-3:30 P.M.

LEAH LI

Research on Piano Sonata Op. 109 by Ludwig van Beethoven.

FACULTY MENTOR: Jessie Fillerup

Oral Presentations

WHO WE ARE

ERNEST MCGOWAN, session moderator
BOOKER HALL OF MUSIC, ROOM 207

1:00-1:20 P.M.

GENICE THOMAS, KATE FLANAGAN, JASSIEM KONRAD

UR Race and Racism Project.

FACULTY MENTORS: Robert K. Nelson, Ernest McGowen

1:20-1:40 P.M.

NY'KYA SCOTT-MCCOY, NY'ASIA FLOWERS, SHELBY RICHARDS

Race and Racism: The University of Richmond's Response to Divestment; The Anti-Slavery Power of Henry "Box" Brown.

FACULTY MENTORS: Ernest McGowen, Shelby Driskill

1:40-2:00 P.M.

NY'ASIA FLOWERS

For Us By Us.

FACULTY MENTOR: Ernest McGowen

2:00-2:20 P.M.

MOFIYINFOLUWA TUNJI-EKUNDAYO

Exploring the African Female Body as a Symbol and an Agent in Literature.

FACULTY MENTOR: Lidia Radi

2:20-2:40 P.M.

LIAM KEENAN

Displacement through Transportation and Speculation in Richmond, Virginia.

FACULTY MENTOR: Patricia Herrera

Oral Presentations

2:40-3:00 P.M.

GRACEJIT CHAHAL

Cultural Health Capital In Access to Organ Transplantation.

FACULTY MENTORS: Jeffrey Hass, Camilla Nonterah

3:00-3:15 P.M.

ANNA PHILLIPS

An Investigation of Resources for Autism and Neurodiversity on College Websites.

FACULTY MENTOR: Laura Knouse

STORYTELLERS

ELIZABETH OUTKA, session moderator

KELLER HALL, ROOM V206

12:45-1:00 P.M.

JULIA ABBOTT

Power Dynamics and Female Autonomy in Enemies-to-Lovers Novels.

FACULTY MENTORS: Elisabeth Gruner, Elizabeth Outka

1:00-1:15 P.M.

TROI LOKEN

The Usage of Dialectical Variation within Homeric Epic.

FACULTY MENTOR: Dieter Gunkel

1:20-1:40 P.M.

MAKENA GITOBU

To Kill with Kindness: The Ills of Overfeeding Others in Tsitsi Dangarembga's Nervous Conditions.

FACULTY MENTOR: Kevin Pelletier

1:40-2:00 P.M.

MADI HYATT

#Booktok: Social Media's Influence on Literature.

FACULTY MENTOR: Thomas Manganaro

Oral Presentations

2:00-2:20 P.M.

NICOLE LLACZA MORAZZANI

Representations of Female Agency in Postcolonial Latin American Literature.

FACULTY MENTORS: Monika Siebert, Mariela Méndez

2:20-2:40 P.M.

GABRIEL MATTHEWS

Writing and Teaching (Against) the Subject.

FACULTY MENTORS: Nathan Snaza, Thomas Bonfiglio

2:40-3:00 P.M.

ALAN DECLERCK

Humanities Without the Human: Oceanic Encounters in Central California.

FACULTY MENTOR: Nathan Snaza

IT'S A COMPLICATED WORLD

YVONNE HOWELL, session moderator

BOOKER HALL OF MUSIC, ROOM B102

12:30-12:45 P.M.

SYDNEY SERIO

Women in Liminal Spaces and a Translation of “Dix-sept ans de mensonge.”

FACULTY MENTOR: Lidia Radi

12:45-1:00 P.M.

RAFAEL CRUZ

Pregnancy in Adolescence in Argentina.

FACULTY MENTOR: Rick Mayes

1:00-1:20 P.M.

DELANEY DEMARET

Extractive Violence in the Amazon Borderlands: Forestry Concessions, Roads, and Indigenous Resistance.

FACULTY MENTORS: David Salisbury, Jeffrey Hass

Oral Presentations

1:20-1:40 P.M.

ANNE-VALERIE CLITUS

Why Does the Narrative Regarding Haiti Seem to Suggest 'Development' vs. Decolonization?

FACULTY MENTOR: Mary Finley-Brook

1:40-2:00 P.M.

LILLIAN TZANEV

Gender and Religion in Bulgaria.

FACULTY MENTOR: Yvonne Howell

2:00-2:20 P.M.

KATIANA ISAAC

Ima Chakra, What is the Chakra?

FACULTY MENTORS: Shannon Jones, Fredy R. Grefa*

2:20-2:40 P.M.

KAITLYN GARRETT

The Power of Propaganda: Visual Culture as Marketing in the War of the Roses.

FACULTY MENTOR: Kristin Bezio†

2:40-3:00 P.M.

ALISON MILLS

An Artwork in Its Afterlife: Gustav Klimt's *Portrait of Adele Bloch-Bauer I* (1903-07).

FACULTY MENTOR: Najung Kim

3:00-3:20 P.M.

EMMA MILLER

The Head that Wears the Crown: Intersections of Purity and Power in 18th Century Mexican Convents.

FACULTY MENTORS: Elena Calvillo, Najung Kim

EXPRESSION

TIMOTHY BARNEY, session moderator
MODLIN CENTER FOR THE ARTS, ROOM M104

12:30-12:50 P.M.

IAN MURPHY

How the Performing Arts Can Benefit Environmental Activism.

FACULTY MENTOR: Mary Finley-Brook

12:50-1:10 P.M.

CAMERON PETERSON

Tasty Jams: The Music of Sugarbeat.

FACULTY MENTORS: Benjamin Broening, Andy McGraw

1:10-1:25 P.M.

HENRY SKALBECK

Alchemy, Trauma, Healing, and the Self in the Films of Alejandro Jodorowsky.

FACULTY MENTOR: Sonja Bertucci

1:25-1:45 P.M.

DORO AZIZI

Embodying and Reimagining Communities through Movement.

FACULTY MENTORS: Patricia Herrera, Nathan Snaza

1:45-2:00 P.M.

LILY STEVENSON

Neoliberalist Rhetorics and Women's Autonomy in Family Planning Films of the 1960s and 1970s.

FACULTY MENTOR: Timothy Barney

2:00-2:15 P.M.

ETHAN VROOM

Queering Carl Van Vechten's Archive: Scrapbooking and the Curation of Queer Identity in the Twentieth Century.

FACULTY MENTOR: Timothy Barney

Oral Presentations

LALIS SYMPOSIUM

DIXON ABREU, CORRADO CORRADINI, DAVID
GIANCASPRO ELIZABETH KISSLING, AND,
MARIELA MÉNDEZ, session moderators
GOTTWALD SCIENCE CENTER, ROOM A201

1:30-1:35 P.M.

INTRODUCCIÓN

1:35-1:45 P.M.

DEISY CONTRERAS

La vida de un mediador lingüístico. (The life of a language broker.)

FACULTY MENTOR: David Giancaspro

1:45-1:55 P.M.

SAOIRSE LANDERS

Bilingüismo y pensamiento. (Bilingualism and thought.)

FACULTY MENTOR: Elizabeth Kissling

2:00-2:10 P.M.

ANH NGUYEN

Retos y consecuencias de aprender inglés durante la educación primaria. (Challenges and consequences of learning English in elementary school.)

FACULTY MENTOR: Elizabeth Kissling

2:10-2:20 P.M.

DANIELA VALDERRAMA

Bilingüismo e identidad (Bilingualism and identity.)

FACULTY MENTOR: Elizabeth Kissling

2:20-2:40 p.m.

DISCUSIÓN

Oral Presentations

2:45-2:55 P.M.

JORDAN JONES

Violencia a la frontera, el caso de la frontera U.S-Mexico y violencia de género en las maquiladoras. (Border violence, the case of the US-Mexico border, and violence against women in the maquiladoras.)

FACULTY MENTORS: Mariela Méndez, Elizabeth Kissling

2:55-3:05 P.M.

RACHEL MATTHEWS

“In-Between”: Las intersecciones entre transness y latinidad a través de Sylvia Rivera. (“In-between”: Intersections of transness and latinidad through the work of Sylvia Rivera.)

FACULTY MENTOR: Mariela Méndez

3:05-3:15 p.m.

KATIANA ISAAC

Eritaj, Herencia, Heritage: Una introducción a la vida migratoria. (Eritaj, Herencia, Heritage: An introduction to migrant life.)

FACULTY MENTOR: Mariela Méndez

3:15-3:35 p.m.

DISCUSIÓN

LALIS SYMPOSIUM

JANNETTE AMARAL-RODRÍGUEZ, SHARON FELDMAN, ÁNGEL OTERO-BLANCO, KARINA VÁZQUEZ, EMMY READY, AND MONTSERRAT TORRES-NOGALES, session moderators
GOTTWALD SCIENCE CENTER, ROOM E305

1:30-1:35 P.M.

INTRODUCCIÓN

Oral Presentations

1:35-1:45 P.M.

CATHERINE LEEDER

¿Cómo puede la sanidad hispana cambiar los Estados Unidos? (How can Hispanic healthcare change the United States?)

FACULTY MENTOR: Ángel Otero-Blanco

1:45-1:55 P.M.

AVA HALSTEAD

Una cultura de inadaptados: cómo la cultura vasca aprovecha las artes para transmitir un sentimiento de rebeldía. (A culture of misfits: How Basque culture uses the arts to convey a sense of rebelliousness.)

FACULTY MENTOR: Ángel Otero-Blanco

2:00-2:10 P.M.

HAILEY WILLIAMS

Un intercambio trascendental: ¿humanidad o tecnología? (A transcendental exchange: Humanity or technology?)

FACULTY MENTOR: Ángel Otero-Blanco

2:10-2:20 P.M.

EMMA MILLER

La cabeza que lleva la corona: imágenes de la Virgen en los conventos novohispanos. (The head that wears the crown: Images of the Virgin in the New Spanish convents.)

FACULTY MENTOR: Sharon Feldman

2:20-2:40 p.m.

DISCUSIÓN

2:45-2:55 P.M.

SAMANTHA NAVA

Entre lo sucio y lo limpio: identidad y marcas sociales. (Between dirty and clean: Identity and social branding.)

FACULTY MENTOR: Karina Vázquez

2:55-3:05 P.M.

JULIA ABBOTT

Sueños para todos: herramientas para lograr la inclusión educativa. (Dreams for all: Tools to achieve educational inclusion.)

FACULTY MENTOR: Karina Vázquez

Oral Presentations

3:05-3:15 p.m.

KARTHIK LALWANI

Empoderamiento de los Invisibilizados: una Mirada Inclusiva sobre la Discapacidad Mental (Empowering the invisible: An inclusive look at mental disability.)

FACULTY MENTOR: Karina Vázquez

3:15-3:35 p.m.

DISCUSIÓN

POLITICAL SCIENCE SYMPOSIUM

STEPHEN LONG, session moderator

TWO LOCATIONS

WEINSTEIN HALL, BROWN ALLEY ROOM, 12:30-1:00 P.M.

12:30-1:00 P.M.

CHERYL CHAN

The Value of a Prison Education: Evaluating the Impact of Prison Education Through Desistance.

FACULTY MENTORS: Andrea Simpson

1:00-1:30 P.M.

EMMA MECKLENBURG

Defending the Role of a Principle of Proportionality in Just Punishment.

FACULTY MENTORS: Stephen Simon, Claudio López-Guerra

GOTTWALD SCIENCE CENTER, ROOM A100, 1:10-3:45 P.M.

1:10-1:25 P.M.

KATE CHASIN, EVERETT WEAVER, CARTER PETE, NICK MOSSMAN

Dr. Miller Independent Study on Anti-Democratic Rhetoric.

FACULTY MENTOR: Chris Miller

Oral Presentations

1:25-1:40 P.M.

MATTHEW ERICKSON

The Gatekeeper of the White House: Edith Wilson's Pivotal Role in American Politics.

FACULTY MENTOR: Linda Hobgood

1:40-1:55 P.M.

CHERYL CHAN

Citizenship in Flux: Unraveling the Complex Narratives of Asian Americans.

FACULTY MENTORS: Jennifer Erkulwater

1:55-2:10 P.M.

BO YUAN

Economic Impact of transition from Democracy to Authoritarianism: The Case of Hong Kong.

FACULTY MENTOR: Dan Chen

2:10-2:30 P.M.

EMILY DANIEL

Content Moderation & the Alt-right: A Comparative Look at Twitter and Reddit.

FACULTY MENTOR: Dan Chen

2:50-3:10 P.M.

CEDRIC (QIANSHI) WANG

The Impact of Chinese Traditional Political Culture on the Democratization of ROC during 1912-1916.

FACULTY MENTOR: Luai Allarakia

3:10-3:30 P.M.

MARIA ZAMBRANO DAVILA

Comparing Economic Integration Policies for Refugees in Colombia and Türkiye.

FACULTY MENTORS: Stephen Long, Nathan Snaza

3:30-3:45 P.M.

GAVIN MARCH

An Examination of H.L.A. Hart's Internal Aspect of Law.

FACULTY MENTOR: Stephen Simon

SCIENCE AND MATHEMATICS

WADE DOWNEY, CAROL PARISH, AND JOANNA WARES, session moderator

GOTTWALD SCIENCE CENTER, ROOM D308

12:30-12:50 P.M.

CHARLI CHEN

An ab Initio Study of the Diradical Isomers of Pyrrole, Furan and Thiophene.

FACULTY MENTOR: Carol Parish

12:50-1:10 P.M.

ABIGAIL ALI

Synthesis and Characterization of Carbon Nanodots-protein Conjugates for the Treatment of Bone Disease.

FACULTY MENTORS: Issac Skromne, Jonathan Dattelbaum

1:10-1:30 P.M.

HELEN XIA

Friedel-Crafts Alkylation of Indoles and Benzofurans with Secondary Acetates and Tertiary Alcohols.

FACULTY MENTOR: Wade Downey

1:30-1:50 P.M.

MANASA RAJEEV

Effects of Polymer Solution Entanglement on the Mechanics of Electrospun PCL Fibers.

FACULTY MENTOR: Christine Helms

1:55-2:10 P.M.

VIKHYAT AGARWAL

SpyderZ: An Efficient Support Vector Machine Library for Photometric Redshift Estimation and Redshift Probability Information.

FACULTY MENTOR: Jack Singal

2:10-2:30 P.M.

MUSKAN AGARWAL, MANIHA ZEHRA AKRAM, LEAH GHAZALI, GABE GREENBERG

Studying the Opioid Epidemic in Virginia: Medication-Assisted Treatment (MAT) vs. Unmedicated Treatment (non-MAT).

FACULTY MENTOR: Joanna Wares

Oral Presentations

2:30-2:50 P.M.

MUSKAN AGARWAL, MANIHA ZEHRA AKRAM, LEAH GHAZALI, GABE GREENBERG

Studying the Opioid Epidemic in Virginia: Medication-Assisted Treatment (MAT) vs. Unmedicated Treatment (non-MAT) for Incarcerated Populations.

FACULTY MENTOR: Joanna Wares

2:50-3:10 P.M.

ABBY LETOCHA

The Effect of the Expanded Child and Dependent Care Tax Credit on Maternal Labor Supply.

FACULTY MENTORS: KimMarie McGoldrick¹, William Ross

HISTORY SYMPOSIUM

DAVID BRANDENBERGER, MICHELLE KAHN, HEATHER RUSSELL, ALEKSANDRA SZNAJDER LEE, AND ELIZABETH BAUGHAN, session moderators
BOOKER HALL OF MUSIC, ROOM 226

12:30-12:50 P.M.

NICOLE SCHREIBER

Investigating the Russian Justice Ministry Ban on the 'LGBT Movement.'

FACULTY MENTOR: David Brandenberger

12:50-1:10 P.M.

MICHAEL BARANOV

A Short History of the USSR — As Revised by Stalin.

FACULTY MENTOR: David Brandenberger

1:10-1:30 P.M.

BENJAMIN REILMAN

Vilna, Wilno and Vilnius 1919-1923: Western Perspectives on Five Years and Three Nations in Conflict.

FACULTY MENTOR: David Brandenberger

Oral Presentations

1:30-1:50 P.M.

MADELEINE LONG

Beyond the Gilded Cage: American Journalists Navigating the Soviet Union, 1980-1991.

FACULTY MENTOR: David Brandenberger

1:50-2:10 P.M.

RACHEL MATTHEWS

From Gay to Transwoman to Rivera: Sylvia Rivera & the Development of Trans Identity in the U.S., 1969-2002.

FACULTY MENTORS: Pippa Holloway, Michelle Kahn

2:10-2:30 P.M.

ROBERT BENTLEY

Punks against Fascists: The Fight against Rightwing Extremism in 1980s-1990s Germany.

FACULTY MENTOR: Michelle Kahn

2:30-2:50 P.M.

SAIGE BEATMAN

The Rise of Antisemitism on College Campuses.

FACULTY MENTOR: Michelle Kahn

2:55-3:10 P.M.

MAKENA GITOBU

Exploring the Material Consumption of Freed-people in Jamaica Post-emancipation.

FACULTY MENTOR: Chris Bischof

3:10-3:30 P.M.

WILLIAM TUNE

The Shadow of Empire: Aemulatio Imperii in 6th Century Spain.

FACULTY MENTORS: Walter Stevenson, Nicole Sackley

3:30-3:50 P.M.

MAYA CASILLAS

Mandating the Holy Places: Religious Rights and International Law in Palestine, 1917-1929.

FACULTY MENTORS: Mimi Hanaoka, Nathan Snaza

Oral Presentations

3:50-4:10 P.M.

SAMUEL OGDEN

The Legacy of Hurricane San Ciriaco: An Ecological Disaster.

FACULTY MENTOR: Manuella Meyer

4:10-4:30 P.M.

PEYTON SISSON

Decision Making and Intelligence Failures That Led to the War in Iraq and the War in Ukraine.

FACULTY MENTOR: David Brandenberger

4:30-5:00 P.M.

GRACEJIT CHAHAL, CHERYL CHAN, MAKENA GITOBU, JORDAN JONES, ABBY LETOCHA, MADO LONG, WILLIAM TUNE, MOFIYINFOLUWA TUNJI-EKUNDAYO, HEIDI YUAN

Roundtable on the 2023-2024 A&S Capstone Fellows Experience.

FACULTY MENTORS: Elizabeth Baughan, Heather Russell, Aleksandra Sznajder Lee

5:00-5:20 P.M.

KATHERINE MAZZER

Noodle Nirvana: A Collection of Short Stories.

FACULTY MENTOR: Rachel Beanland

Poster Presentations

MODLIN CENTER FOR THE ARTS, BOOTH LOBBY

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

IAN SHOGREN

A Digital Amplifier System for Cut-open Vaseline Gap Multi-electrode Electrophysiology.

FACULTY MENTOR: Linda Boland

POSTER #1

SAOIRSE LANDERS

Cerium(IV) Mediated Hydrolysis of Cyclic di-gmp and Enhancing Antibiotic Effects.

FACULTY MENTOR: Dominique Williams

POSTER #2

CORINA STASIAK

CD46 Isoforms and Partners Proteins: Adenovirus Type 64 Binding Mechanism.

FACULTY MENTOR: Eugene Wu

POSTER #3

HENRY ZHU

Link between adenovirus pink eye disease and CD46 receptor protein.

FACULTY MENTORS: Eugene Wu

POSTER #4

ISABELLA FOUST

Phylogenetics and Species Discovery of *Rhinella* in Colombia.

FACULTY MENTORS: Rafael De Sa, João F. R. Tonini

POSTER #5

Poster Presentations

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

ANSLEIGH GUNTER

Fertility in Flux: Seasonal and Clinal Differences in Fecundity and Diapause in *Zaprionus indianus*.

FACULTY MENTOR: Priscilla Erickson

POSTER #6

CAMILLE WALSH-ANTZAK

The Effect of Parasitoid Wasps on the Inter- and Interspecific Competition of *Zaprionus indianus*.

FACULTY MENTOR: Priscilla Erickson

POSTER #7

MAGGIE JORDAN

The Effect of Larval Environment on Adult Thermal Tolerance in an Invasive Forest Insect.

FACULTY MENTOR: Kristine Grayson, Sean Powers

POSTER #8

PETER CHRISTENSEN

Methylation of Ded1 and Its Role as an RNA Helicase.

FACULTY MENTOR: Angie Hilliker

POSTER #9

SARAH MARSDEN

Levels of Methylated Vs. Unmethylated Ded1 in yeast cells during heat shock.

FACULTY MENTOR: Angie Hilliker

POSTER #10

CHARLOTTE BRAND

RNA Sequencing Analysis of Mutant Ded1.

FACULTY MENTOR: Angie Hilliker

POSTER #11

MOHAMED ADAM

Investigating the Effects of Thymoquinone on Wood-Smoke Induced Inflammation.

FACULTY MENTOR: Shannon Jones

POSTER #12

Poster Presentations

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

LEANNA MORRIS, ANH NGUYEN, CAMERON BARRET

Investigating HIV and Other Infections Diseases.

FACULTY MENTORS: Emma Goldman, B. Daniel Pierce

POSTER #13

OLIVIA PARK, TIMILEHIN OLUWAJI, CHRISTOPHER CARR, LAUREN SHIN

Investigating HIV.

FACULTY MENTORS: Shannon Jones, Michael Norris

POSTER #14

**CAMERON TYSON, HOLLY CHENG, GENESIS CHAVARRIA,
VICTOR NYARKO-ASARE**

Fighting HIV.

FACULTY MENTORS: Shannon Jones, Michael Norris

POSTER #15

JESSICA ASHBY, GOPIKA DAS, THOMAS CANELA, KEVIN RETANA

Investigating HIV and the Immune System.

FACULTY MENTORS: B. Daniel Pierce, Emma Goldman

POSTER #16

MATT GETZOFF, ADLEY ZALEWSKI, MATEO LARA-MCNAMARA

Investigating HIV.

FACULTY MENTOR: Emma Goldman, B. Daniel Pierce

POSTER #17

SWETHA POLURI, KATIE WEISPFENNING, YVONNE DONKOR, CHELSEA WARUZI

Investigating Immunodeficiency.

FACULTY MENTORS: Shannon Jones, Michael Norris

POSTER #18

**GISELLE SANTIESTEBAN-PIZARRO, AMANI ROSS, EMMA BRASHEAR,
SREJAN RAIKWAR**

HIV: The Fight Within.

FACULTY MENTORS: Shannon Jones, Michael Norris

POSTER #19

Poster Presentations

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

CHRISTIAN FIGUEROA

Anti-inflammatory and Antibacterial Effects of Berberine.

FACULTY MENTORS: Li Xiu-Min*, Jan Geliebter*

POSTER #20

JOSIAS COLLIER

Analyzing How Mutations to the VirA Kinase region Affect Its Function.

FACULTY MENTOR: B. Daniel Pierce

POSTER #21

SARAH SALAH

Uncovering Signal Perception in Agrobacterium Through Targeted Mutagenesis.

FACULTY MENTOR: B. Daniel Pierce

POSTER #22

SHERMIN UZAIR

Structural Characterization of the ExoR Protein in Agrobacterium tumefaciens.

FACULTY MENTOR: B. Daniel Pierce

POSTER #23

AE LAN SNYDER, DAVID CARPIO

Calcium and Light-chain Regulation of MYO10 Function in Filopodia via Its IQ motifs.

FACULTY MENTOR: Omar Quintero-Carmona

POSTER #24

JACQUELINE BISSO

Elucidating the Signaling Interactions that Control Spinal Cord Fate Specification.

FACULTY MENTOR: Isaac Skromne

POSTER #25

LAUREN KNOPP, MACKAY SHERARD, REGINA HONINGFORD, BILLY APOSTOLOU

Functional Analysis of P4HA2 in Relation to CDX4 in Early Zebrafish Development.

FACULTY MENTOR: Isaac Skromne

POSTER #26

Poster Presentations

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

CHRISTINE KUYKENDALL

Investigating the Function of Retinoic Acid Receptor Gamma in the Early Embryonic Development of Zebrafish.

FACULTY MENTOR: Isaac Skromne

POSTER #27

SARAH CLARK

Tip60 Dysregulation Results in Axon Blockages and Motor Dysfunction in a Drosophila Model of Machado-Joseph Disease.

FACULTY MENTOR: John Warrick

POSTER #28

OLIVER SIMMS

Effect of Keap1 Downregulation and on Oxidative Stress Response and RelE20 Downregulation Immune Response in Drosophila Flies Afflicted with Machado-Josephs Disease.

FACULTY MENTOR: John Warrick

POSTER #29

PAXTON MILLS

Genetic Analysis of Suspected Invasive Phragmites in Bonners Ferry, Idaho.

FACULTY MENTOR: Carrie Wu

POSTER #30

CHLOE NGO

Preliminary Search for Arbuscular Mycorrhizal Fungi Colonization in Recent Invasive Grass Species, Wavyleaf Basketgrass.

FACULTY MENTOR: Carrie Wu

POSTER #31

ELENA ZERKIN

Annotation of the SRL Gene in Drosophila Species: A Study of the Evolution and Function of the Insulin Signaling Pathway through the Genomics Education Partnership (GEP).

FACULTY MENTOR: Melinda Yang

POSTER #32

Poster Presentations

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

HANNAH LWIN, SARAH GRACE CLARKE

Isolation and Identification of Compounds with Antibiotic Activity Against ESKAPE Pathogen Relatives.

FACULTY MENTOR: Jonathan Dattelbaum

POSTER #33

KATIE MARCHIONE

One-pot Enol Silane Formation-alkylation Reactions of Ketones and (Diaryl)methyl Acetates.

FACULTY MENTOR: Wade Downey

POSTER #34

LUKE SIMKINS

Synthesis and Characterization of Re Complexes from Naphthyridine Containing Ligands.

FACULTY MENTOR: Emma Goldman

POSTER #35

JAMIE KAPLAN

Mechanistic Elucidation of Nanomaterial-Enhanced First-Generation Biosensors Using Probe Voltammetry of an Enzymatic Reaction.

FACULTY MENTOR: Michael Leopold

POSTER #36

HOLLY WEMPLE

Mechanistic Elucidation of Nanomaterial-Enhanced First-Generation Biosensors Using Probe Voltammetry of an Enzymatic Reaction.

FACULTY MENTOR: Michael Leopold

POSTER #37

EMMA NORRIS

Trends in Expression and Activity of Natural Products Biologically Active Against Infection and Disease in Humans.

FACULTY MENTOR: Kristine Nolin

POSTER #38

Poster Presentations

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

ABIGAIL MCENTIRE

Additive and Solvent Effects for the Selective Reduction of CO₂ to Methanol with Organic Hydrides.

FACULTY MENTOR: Michael Norris

POSTER #39

AMY BAKRY

A Quantum Mechanical Study of the Dative Bond in Quasimetallatranes.

FACULTY MENTOR: Carol Parish

POSTER #40

MARCOS HENDLER

The Effect of Bicyclic Chalcogen-Phosphorus Rings on the Bergman Cyclization.

FACULTY MENTOR: Carol Parish

POSTER #41

MILES SHELTON, AYUSH GARG

AI for Active Question Answering.

FACULTY MENTOR: Catherine Finegan-Dollak

POSTER #42

MARIONA GINER

Simulating Partial-sky Microwave Background Maps with 3D Fast Fourier Transforms.

FACULTY MENTOR: Emory (Ted) Bunn

POSTER #43

REID KOUTRAS, ARSALAN ADIL

Testing Explanations of Cosmic Microwave Background anomalies with Remote Quadrupole Surveys.

FACULTY MENTOR: Emory (Ted) Bunn

POSTER #44

ERIC NEUHAUS

Modeling Hysteresis in Memristive Devices.

FACULTY MENTOR: Ovidiu Lipan

POSTER #45

Poster Presentations

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

ABBHEY ALVARADO

Reconstructing Race: How Belief Systems Shape Social Justice Support.

FACULTY MENTOR: Jane Berry

POSTER #46

BELLA PURVIS

Black and Blue All Over: Whose Lives Matter?

FACULTY MENTOR: Jane Berry

POSTER #47

YANGYUE LI

Examining Variability and Contextual Predictors of College Student Belonging.

FACULTY MENTORS: Karen Kochel

POSTER #48

BRIDGET MCGUINNESS

Longitudinal Associations Between Peer Victimization and School Belonging in Elementary-Aged Children.

FACULTY MENTORS: Karen Kochel

POSTER #49

EVELYN BARRINGER, BELLA TOME

Examination of Unpredictable Positive Experience Response (UPERs) training on Long Evans Rats: Focus on neuroplasticity markers and behavioral adaptations.

FACULTY MENTOR: Kelly Lambert

POSTER #50

ADITYA NARAYANAN, ANDRES MAUCO, AVA WAGNER, ISABEL DILANDRO, JEAN PAUL DORION

Neurobiological Comparisons of Wild-trapped and Laboratory-raised *Rattus norvegicus*.

FACULTY MENTOR: Kelly Lambert

POSTER #51

KATIE CHIGNELL, PETRA MIJIC, GRIFFIN FERGUSON, DAVIT ARUSTAMYAN

Effects of Repair Disfluencies on the Comprehension of Complex Syntactic Structures.

FACULTY MENTOR: Matthew Lowder

POSTER #52

Poster Presentations

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

CATHERINE CUMMINS, MANON STEPHEN

The students that presents the poster: Structural separation reduces the cost of ungrammaticalities.

FACULTY MENTOR: Matthew Lowder

POSTER #53

WILSON BERRY

Can a University Effectively Apologize?: The Role of Taking Responsibility and Behavior-Related Language in University Apologies.

FACULTY MENTOR: Kristjen Lundberg

POSTER #54

YUTING (KATIE) HONG

The Relationship between Cultural Dimensions and Perceptions of Victimization by Teachers.

FACULTY MENTOR: Kristjen Lundberg

POSTER #55

AVERY ROTHSTEIN

The Influence of Participant Sociodemographic Factors on the Relationship Between Felt Misunderstanding and Perceptions of Others' Pain.

FACULTY MENTOR: Brandon Ng

POSTER #56

COLE LEWIS, MIRANDA MOE

Distraction Suppression and Eye Tracking.

FACULTY MENTOR: Arryn Robbins

POSTER #57

NATASHA TROIKE, DELANEY FORRESTAL, AVERY ROTHSTEIN

"There's No Way You're ALWAYS in Pain": The Relationship between Acute vs. Chronic Pain on Bias in Perceptions of Others' Pain.

FACULTY MENTOR: Brandon Ng

POSTER #58

Poster Presentations

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

**VENESSA OKOROANYANWU, LYDIA DOHERTY, WILL RAFI, LAUREN YIM
KRYSTELLE DUBE, KATHERINE NGUYEN, GRACE CHAHAL**

What Do We Know about Thriving among Organ Recipients?

FACULTY MENTOR: Camilla Nonterah

POSTER #59

ZARA DUBOYCE

Independent Dance Project.

FACULTY MENTOR: Alicia Díaz

POSTER #60

EMILY LEKAS

Field Observations of Appearance and Behavior in *Callistoctopus furvus* from the Turks and Caicos Islands.

FACULTY MENTORS: Kristine Grayson, C. E., O'Brien

POSTER #61 (Digital Poster)

LILA CASATI

Using R to Communicate the Relationship between Ded1 in Yeast and Methylation.

FACULTY MENTOR: Angie Hilliker

POSTER #62 (Digital Poster)

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

SONIA MECORAPAJ

Incorporation of an Unnatural Amino Acid pBpf in MEMO1.

FACULTY MENTOR: Julie Pollock

POSTER #1

HALEY SALUS

Characterization of MEMO1 Protein-Protein Interactions.

FACULTY MENTOR: Julie Pollock

POSTER #2

EVAN WOLFF, PAMIRA YANAR

Oxazoles: Oxidatively Cleavable Linkers for Peptide Discovery Platforms.

FACULTY MENTOR: Christopher Shugrue

POSTER #3

Poster Presentations

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

MELINA GEROULANOS

Lanthanide Metals Modulating Biofilm Growth of *Pseudomonas putida* KT2440.

FACULTY MENTORS: Dominique Williams

POSTER #4

YAGMUR BINGUL

Structural Phylogenetics of A Family DNA Polymerases.

FACULTY MENTOR: Eugene Wu

POSTER #5

AMY JABLONSKI

Genetic Variation in *Ixodes scapularis* Lineages in Virginia is Linked to Differences in Host Parasitism Behavior.

FACULTY MENTOR: Jory Brinkerhoff

POSTER #6

SANSKRITI BASNYAT, AUDREY BRECKENRIDGE

Vitexin on Trial: Evaluating its Promise as an Anti-Epileptic Agent.

FACULTY MENTOR: Colleen Carpenter-Swanson

POSTER #7

EVA FITCH, LINDI RUTHVEN

Utilizing Zebrafish Models to Explore Stimulant Action.

FACULTY MENTOR: Colleen Carpenter-Swanson

POSTER #8

JERRY HE

Exploring Patterns of Rapid Evolution in *Zaprionus indianus*: Divergent Seasonal Changes, Parallel Annual Shift, and Spatial Genetic Variation.

FACULTY MENTOR: Priscilla Erickson

POSTER #9

MICHELLE POGREBETSKAYA

Examining the Phenotypic Effects of a Selected Haplotype in the *Zaprionus indianus*.

FACULTY MENTOR: Priscilla Erickson

POSTER #10

Poster Presentations

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

ANNA NGUYEN

Impacts of Ded1-Methylation on Stress Granule Formation.

FACULTY MENTOR: Angie Hilliker

POSTER #11

SABRINA FERRER

Testing the affects of Ethyl Rosemarinte on Woodsmoke Challenged Cells.

FACULTY MENTOR: Shannon Jones

POSTER #12

KIVANC NESANIR

Inflammatory Response of 2-Nitrofluorene in Human Lung Cells (A549).

FACULTY MENTOR: Shannon Jones

POSTER #13

ROSEMALA AGARWALA

Genetic Modification of Agrobacterium to Inhibit Plant Pathogenesis.

FACULTY MENTOR: B. Daniel Pierce

POSTER #14

MATTHEW KAREN

Investigations into ASBr as an Inhibitor of the VirA/VirG System.

FACULTY MENTOR: B. Daniel Pierce

POSTER #15

COLIN LEE

The Function of the Receiver Region of VirA in Agrobacterium tumefaciens.

FACULTY MENTOR: B. Daniel Pierce

POSTER #16

MARINA RAGOULINA

Site-directed mutagenesis of the Signal Integration Node (SIN) of transmembrane histidine kinase VirA.

FACULTY MENTOR: B. Daniel Pierce

POSTER #17

Poster Presentations

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

ARIEL SEIDU

Analyzing How Mutations To The VirA Periplasmic Region Effect Its Function

FACULTY MENTOR: B. Daniel Pierce

POSTER #18

JOANNA MAS, VU PHAN

Development of a Correlative Light and Scanning Electron Microscopy Approach.

FACULTY MENTOR: Omar Quintero-Carmona

POSTER #19

ANNA VOIT

Rodenticide Resistance in *Rattus norvegicus*.

FACULTY MENTOR: Jonathan Richardson

POSTER #20

CATHERINE LEEDER

Measuring Chitinase Activity in *Sodalis glossinidius*.

FACULTY MENTOR: Laura Runyen-Janecky

POSTER #21

HEIDI BEAL

Mis Regulation of Kenny, a Protein Regulating the Immune Response, Influences Neurodegeneration in a *Drosophila* Model of the Human Disease MJD.

FACULTY MENTOR: John Warrick

POSTER #22

SYDNEY BOEHMAN

Hematoxylin and Eosin Stain on Injured Sprague Dawley Rats.

FACULTY MENTOR: John Warrick

POSTER #23

PAXTON MILLS, LEILA LIN, TEAGAN HOLMES, ADITYA NARAYANAN

Analysis of the Role of the *Foxb1b* Gene in Tailbud Development of Zebrafish Embryos.

FACULTY MENTORS: Isaac Skromne

POSTER #24

Poster Presentations

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

BROOKE GIBSON

JNK Mediated Stress Pathways are Activated in a Drosophila Model for MJD.

FACULTY MENTORS: John Warrick

POSTER #25

ISABELLA MOHREN

What Clusters Forget: Signs of Bonding Transitions in Group 12 Metal Dihalides (Contrasted with van der Waals Chains).

FACULTY MENTORS: Kelling Donald

POSTER #26

REMI GRAFF

Propargyl Amides from Trimethylsilyl Trifluoromethanesulfonate-promoted Additions of Secondary Amides to Propargyl Propionates.

FACULTY MENTOR: Wade Downey

POSTER #27

GREG HUGHES

Trimethylsilyl Trifluoromethanesulfonate (TMSOTf) Promoted Synthesis of 4-isoxazolines from Chalcones and N-benzylhydroxylamine.

FACULTY MENTOR: Wade Downey

POSTER #28

ISABELLA CASTILLO

Carbon Dioxide Reduction.

FACULTY MENTOR: Michael Norris

POSTER #29

SAM CHIAINO

Synthesizing Ruthenium Prodrugs to be Used in the Development of Photo-activated Chemotherapy.

FACULTY MENTORS: Michael Norris, Julie Pollock

POSTER #30

BEN DWYER

Altering Product Selectivity for Ru-based CO₂ reduction catalysts.

FACULTY MENTOR: Michael Norris

POSTER #31

Poster Presentations

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

ISMAR ALICKOVIC

PregaS and PS NMDA Subunit Selectivity and Binding Analysis.

FACULTY MENTOR: Carol Parish

POSTER #32

CHARLES BIAKU

Methylindole.

FACULTY MENTOR: Carol Parish

POSTER #33

ISAAC HERNANDEZ

Tautomerization of Ketone and Enol.

FACULTY MENTOR: Carol Parish

POSTER #34

SEBASTIAN MENDOZA-GOMEZ

Variations on the Bergman Cyclization Theme: Electrocyclizations of Ionic Penta-, Hepta-, and Octadiynes.

FACULTY MENTOR: Carol Parish

POSTER #35

CAMRYN SUNG

Use of Thermal Shift Assay to Identify Small Molecule Modulators of *Staphylococcus aureus* Stk1 and Stp1.

FACULTY MENTOR: Julie Pollock

POSTER #36

ABIGAIL DALTON

Exploration of Benzothiazoles as Peptide-Based Cleavable Linkers.

FACULTY MENTOR: Christopher Shugrue

POSTER #37

PAUL OCHEN, ZANDER HESCH, GRANT SZADJA, DANIEL KATZ, JACOB GILBERT, OHENEBA BERKO, XU ZIQIN

Applying Explanation Methods to Automated Voice Processing Systems.

FACULTY MENTOR: Doug Szadja

POSTER #38

Poster Presentations

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

KRITIM RIJAL

Understanding ADHD with Machine Learning Models: A Novel Approach to Detecting ADHD Behaviors Through App Usage Data.

FACULTY MENTORS: Shweta Ware

POSTER #39

DANIEL VERDI DO AMARANTE

Machine Learning Analysis of Science Fair Topics and Resource Disparities.

FACULTY MENTOR: Lilla Orr

POSTER #40

BEZA MULATU

Integrating Spirituality, Religion, and Science in Healthcare: Enhancing Patient Care and Well-being.

FACULTY MENTOR: Nathan Snaza

POSTER #41

TIM BABCHAK

Monitoring of Forestry Roads and Transportation Infrastructure in the Amazon Borderlands of Ucayali, Peru and Acre, Brazil

FACULTY MENTOR: David Salisbury

POSTER #42

SELENA DENG

China's Forests in Amazonia: A Political Ecology Analysis of Chinese Interests in the Forestry Sector of the Peruvian Amazon.

FACULTY MENTOR: David Salisbury

POSTER #43

ROWAN KELLER

Looking Upriver: Mapping the Connection between Amazonian Indigenous Knowledge with Remote Sensing Indicators.

FACULTY MENTOR: David Salisbury

POSTER #44

Poster Presentations

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

NEREIDA SOSA ANTUNEZ, DELANEY DEMARET, NATHAN WINIARSKI

A Transboundary Analysis of Overlapping Ecologies in the Amazonian Headwaters of the Juruá-Yurúa River.

FACULTY MENTOR: David Salisbury

POSTER #45

NATHAN WINIARSKI

Roads to Ruin?: Road Networks in the Amazon Borderlands of Brazil and Peru.

FACULTY MENTOR: David Salisbury, Stephanie Spera

POSTER #46

YULIA SHATALOV, CAROLINE OWENS

Influence of Unexpected Positive Experience Responses (UPERs) on Mechanisms of Resilience: A Neurobiological Analysis of Stress Responses in *Rattus norvegicus*.

FACULTY MENTOR: Kelly Lambert

POSTER #47

ASH YORK

The Effects of Down Regulating SOD2 (Superoxide Dismutase 2) on Neurodegeneration in the *Drosophila* Model of Machado-Joseph's Disease.

FACULTY MENTOR: John Warrick

POSTER #48

ISABELLE CLARK, ANAI WININGS, LEXI BROWN

The CRT Curriculum Clock: When Should it Start Ticking?

FACULTY MENTOR: Jane Berry

POSTER #49

CAROLINE GLASER

Black Lives Matter: Is It Political?

FACULTY MENTORS: Jane Berry

POSTER #50

ABBY HIMMELSTEIN, MAREN LYSENKO, EMMA MCCAULEY

Ameri(Can Everyone) Dream?

FACULTY MENTOR: Jane Berry

POSTER #51

Poster Presentations

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

MIRANDA MOE

Lost in Interpretation: Examining links between Autistic Personality Traits and Processing of Metonymy.

FACULTY MENTOR: Matthew Lowder

POSTER #52

HEIDI YUAN

Prototypicality and Need to Belong: How One's Standing in the Group Affects Parochial Cooperation.

FACULTY MENTOR: Kristjen Lundberg

POSTER #54

LAUREN YIM, KRISTELLE DUBE, NESSA OKOROANYANWU, LYDIA DOHERTY, WILL RAFI, KATHERINE NGUYEN

Creation of a Scenarios Measure of Organ Donation.

FACULTY MENTOR: Camilla Nonterah

POSTER #55

MICHAL ILOUZ, JASON GU

Mental Models for ADA Vehicle Automation.

FACULTY MENTOR: Arryn Robbins

POSTER #56

JORDAN JONES

"I See Your True Colors Shining Through": How Judge Attributes Affect Outcomes in Transgender Rights Cases.

FACULTY MENTOR: Jennifer Bowie

POSTER #57

LAUREN CARTER

Childcare Burden and Social Support Networks Among Tsimane Women of Bolivia.

FACULTY MENTOR: Christopher von Rueden†

POSTER #58

ALEX BROENING

Lighting Design for Dance in *Moving Bodies / Bodies Moving* and Student Capstones.

FACULTY MENTOR: Anne Van Gelder

POSTER #59

Poster Presentations

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

ZARA DUBOYCE

Are You There?

FACULTY MENTOR: Alicia Díaz

POSTER #60 (Digital Poster)

MICHELLE PERALES PANDURO

CMT-Causing Mutations in INF2 Lead to Impaired Organelle Function.

FACULTY MENTOR: Uri Manor*

POSTER #61 (Digital Poster)

POLINA SHITIKOVA

Justice for Immigrants.

FACULTY MENTOR: Kristin Bezio[†]

POSTER #62 (Digital Poster)

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

ESTHER KIM, SKY MARSICANO

Characterization of a Putative Periplasmic Branched Chain Amino Acid Binding Protein TM1135 from *Thermotoga maritima*.

FACULTY MENTOR: Jonathan Dattelbaum

POSTER #1

WONBIN KO

Insights into the Extension Past 8-oxo-2'-deoxyguanosine with Two Y-Family Polymerases.

FACULTY MENTOR: Michelle Hamm

POSTER #2

ANUSH MARGARYAN

Intracellular pH Dynamics in Zebrafish Tail Regeneration.

FACULTY MENTORS: Angie Hilliker, Diane Barber*

POSTER #3

Poster Presentations

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

MAYA ALLIONE

A Natural Remedy: Investigating the Chemoattractant and Chemorepellent Effects of Essential Oils on *Ixodes scapularis* Tick Behavior.

FACULTY MENTOR: Jory Brinkerhoff

POSTER #4

SARAH MARSDEN, GRACE PAR, VICTORIA HOLLERAN, ALEX KONIGSBERG

The Effect of Knock Out GRSF1 on the Development of the Tail Bud in Zebra Fish.

FACULTY MENTOR: Isaac Skromne

POSTER #5

ALEX ROBERTSON, EMMA NORRIS, EVA FITCH, SARAH CLARK

Investigating the Function of Greb1 in Zebrafish Development.

FACULTY MENTOR: Isaac Skromne

POSTER #6

EMMA KANE

Investigating Phage-Antibiotic Synergy in Combating Multidrug-resistant Bacterial Infections.

FACULTY MENTOR: Paul Turner*

POSTER #7

NOAH ROBINSON

Halogen Bonding Trends Beyond Period 2.

FACULTY MENTOR: Kelling Donald

POSTER #8

SABAHUDIN REDZIC

Conformational Preferences in $\text{MX}_2^{+/-}$ and $\text{M}(\text{C}_5\text{H}_5)^{+/-}$ Systems as Probes for Bonding Models.

FACULTY MENTOR: Kelling Donald

POSTER #9

MARK STRIGEL

Synthesis of Beta-hydroxyamino Alcohols from Ketones and N-benzyl Nitrones.

FACULTY MENTOR: Wade Downey

POSTER #10

Poster Presentations

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

KINGSLEY DWOMOH, EVELYN RAMIREZ

The continuous flow synthesis of polyfunctionalized pyrroles.

FACULTY MENTORS: Emma Goldman, Raymond Dominey

POSTER #11

KAIXIANG LIANG

Computation Research on Cyclopropyl Ring Opening Reaction.

FACULTY MENTOR: Carol Parish

POSTER #12

MAAZ RAO

Barriers Project.

FACULTY MENTOR: Carol Parish

POSTER #13

LILLIAN OWENS

Effect of Rare Earth Metals on Bacteria Growth.

FACULTY MENTOR: Dominique Williams

POSTER #14

ANDREW WATTS

Development of Electron-rich Anilines as Cleavable Linkers.

FACULTY MENTOR: Chris Shugrue

POSTER #15

ZACHARIE GEORGES, YILI YU, ZHENGTA HU, ZHUOQUN WEI

Liver Donation Allocation Algorithm.

FACULTY MENTOR: Prateek Bhakta

POSTER #16

ISRAA DRAZ, KONSTANTINOS ANAGNOSTOPOULOS, CHLOE LERCH

Argument Mining and Human Values Classification through Twitter Discourse.

FACULTY MENTOR: Joonsuk (Jon) Park

POSTER #17 (Digital Poster)

TOLYA EVDOKIMOV

Appearance-Based Webcam Eye Tracking using Neural Networks.

FACULTY MENTORS: Arryn Robbins, Catherine Finegan-Dollak

POSTER #18

Poster Presentations

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

JOHN WANG, NIKOLOZ GVELESIANI, CALEB KWAKYE

Studying ADHD with Smartphone Sensing and Ecological Momentary Assessment (SASSEMA).

FACULTY MENTOR: Shweta Ware

POSTER #19

WEIHENG YANG, PADAMAJA KARKI

SASSEMA Activity Analysis.

FACULTY MENTOR: Shweta Ware

POSTER #20

JOHN ABBOTT

Identifying Cases of Gerrymandering with Geography and District Compactness.

FACULTY MENTORS: Kyle Redican, David Soule¹

POSTER #21

NOELLE BESWICK

Promoting Ethical Ecological Research through Reflections of Practitioners.

FACULTY MENTOR: Mary Finley-Brook

POSTER #22

NATHAN WINIARSKI

Ka Mua, Ka Muri — Walking Backwards into the Future: Sustainability in Aotearoa New Zealand's South Island.

FACULTY MENTOR: Todd Lookingbill

POSTER #23

DANIELA PEREZ

Careful Considerations: Navigating Conference Planning Amidst Cultural and Economic Diversity.

FACULTY MENTOR: David Salisbury

POSTER #24

SHAKERA PATTERSON

Extreme Heat in Jamaica.

FACULTY MENTOR: Mary Finley-Brook

POSTER #25

Poster Presentations

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

VIPUSHA CHANDRAPU

The Residency Match System and Burnout Among Medical Residents.

FACULTY MENTOR: Rick Mayes

POSTER #26

JOLAN MOTYKA

Medically Underserved Communities, Improving Access to Primary Care, and Health Worker Burnout.

FACULTY MENTOR: Rick Mayes

POSTER #27

KATIE MARCHIONE

Planetary Health for All: The Shared Goal of Education in One Health, Climate Change Medicine, Global Environmental Public Health, and Sustainability and Health.

FACULTY MENTOR: Kathryn Jacobsen

POSTER #28

SUSANNAH CARTER

Healing Healthcare: Consolidation, Burnout, and Physician Scarcity's Toll on Patients and Providers.

FACULTY MENTOR: Rick Mayes

POSTER #29

SHERMIN UZAIR

Closing the Cancer Care Divide: An Investigation into the Oncology Physician Shortage.

FACULTY MENTOR: Rick Mayes

POSTER #30

MEGHANA NALAMOLU

Effects of Hospital Consolidation on Physician Burnout.

FACULTY MENTOR: Rick Mayes

POSTER #31

SYDNEY TELLIS

Identity of Self in India.

FACULTY MENTORS: Nathan Snaza

POSTER #32

Poster Presentations

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

COURTNEY FORD

Labor and Faith in Post-Emancipation Jamaica.

FACULTY MENTOR: Chris Bischof

POSTER #33

JOHAVY MENDOZA MEZA

Subject Pronoun Variation in Honduran Spanish: Insights from Northern Virginia.

FACULTY MENTOR: David Giancaspro

POSTER #34

YOONHA NAM, AIDEN HILLS, ZIQI MENG

Nonabelian Partial Difference Sets.

FACULTY MENTOR: Jim Davis

POSTER #35

STEVI DUGAS, CAIT BABB, ANNA ELLIOTT, JENNIE CAMPBELL, LEYAO LIANG, DAN SCHWARZ

Collusion or Networking?

FACULTY MENTORS: Maia Linask[†], Della Dumbaugh

POSTER #36

SOFI CONWAY

Examining Generational Differences in Information Processing: A Case Study in Higher Education.

FACULTY MENTOR: Bo Yun Park[†]

POSTER #37

EMMA MILLER

In Camera: Representation and Stereotypes of Female Attorneys in *Law & Order*.

FACULTY MENTOR: Jennifer Bowie

POSTER #38

CAMPBELL FINCH

The Gender of the Pen: Studying Gender's Role in the Majority Opinion Assignment Process in the United States Supreme Court.

FACULTY MENTOR: Jennifer Bowie

POSTER #39

Poster Presentations

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

LUKE ARNOWITT

Property Confiscations in the 1964 Revolution in Zanzibar.

FACULTY MENTOR: Sandra Joireman

POSTER #40

JACOB ELLIS

Occupational and Professional Backgrounds in the Virginia General Assembly.

FACULTY MENTOR: Dan Palazzolo

POSTER #41

GRACE ALLEN

Failures of the First Proposal to rewrite the Chilean Constitution.

FACULTY MENTOR: Jenny Pribble

POSTER #42

BRIDGET MCGUINNESS, WILSON BERRY, YANGYUE LI, DAISY BROOKS, HEIDI YUAN, SOPHIA LUDMAN

UR Student Belonging: Findings from the Scientific Literature, Stakeholder Interviews, and Institutional Data.

FACULTY MENTORS: Karen Kochel, Kristjen Lundberg

POSTER #43

GABBY SYLVESTER

The Relationship Between ADHD Symptom Dimensions and Sleep Disturbances in Adults.

FACULTY MENTOR: Laura Knouse

POSTER #44

ADITYA NARAYANAN, ANDRES MAUCO, AVA WAGNER, ISABEL DILANDRO

Behavioral and Endocrinological Investigations in Wild-trapped and Laboratory-raised *Rattus norvegicus*.

FACULTY MENTOR: Kelly Lambert

POSTER #45

DELANEY FORRESTALL, NATASHA TROIKE, AVERY ROTHSTEIN

“No, I’m Not Being a Drama Queen”: The Relationship Between Female Gender Stereotypes on Pain-Related Perceptions.

FACULTY MENTOR: Brandon Ng

POSTER #46

Poster Presentations

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

JENNIE CAMPBELL

Making Women Visible.

FACULTY MENTORS: Della Dumbuagh, Maia Linask[†]

POSTER #47

AUDEN WILSON

Light Sensitive Ruthenium-Based Compounds as Prodrugs for Lung Cancer.

FACULTY MENTORS: Julie Pollock, Michael Norris

POSTER #48

ZIZHE (SPIKE) CHENG

Genealogy of Existentialism.

FACULTY MENTOR: Will Reckner

POSTER #49

BRYAN VALDES

TEI: The Archival Value in Standardized Encoding.

FACULTY MENTOR: Kristin Bezio[†]

POSTER #50

HANNAH ZAHEER

In Changing, We Stay.

FACULTY MENTOR: Alicia Díaz

POSTER #60 (Digital Poster)

MAGGIE CROWE

Fleet

FACULTY MENTOR: Alicia Díaz

POSTER #61 (Digital Poster)

MARK JOHNSON

Music & Meaning.

FACULTY MENTOR: Kristin Bezio[†]

POSTER #62 (Digital Poster)

* Faculty affiliated with other institutions.

† Faculty affiliated with the Jepson School of Leadership

‡ Faculty affiliated with the Robins School of Business

Reception & Performance

5:30-7:00 P.M.

A&S STUDENT SYMPOSIUM RECEPTION

MODLIN CENTER FOR THE ARTS, BOOTH LOBBY

7:30 P.M.



EVERYBODY

DEPARTMENT OF THEATRE & DANCE PERFORMANCE

MODLIN CENTER FOR THE ARTS, BOOTH LOBBY

April 18-20, 2024 | 7:30 p.m.

April 21, 2024 | 2 p.m.

Director & Composer: Julie Fulcher-Davis

Scenic & Projections Design: Emmy Weldon

Costume Design: Nia Safarr Banks

Lighting Design: Betsy Chester

Sound Design: Robby Williams

Choreography: Maggie Crowe

Stage Management: Amy Almond

Branden Jacobs-Jenkins, who the *New York Times* calls “one of this country’s most original and illuminating writers,” brings us an inventive 21st-century riff on the 15th-century morality play, *Everyman*. In this contemporary tale, *Everybody* (chosen from amongst the cast by lottery at each performance) goes on a compelling journey through our greatest mystery — the meaning of living.

“Provocative and involving! Wildly funny!” — *Huffington Post*

“Everybody fills the heart in a new and unexpected way.” — *The New Yorker*

Tickets available at the Modlin Center Box Office and modlin.richmond.edu.

Research Opportunities

READY TO RESEARCH?

Whether it's in the lab, the art studio, or the archives, students are encouraged to get involved in undergraduate research as early as their first year on campus. Taking part in undergraduate research opportunities can help students supplement classroom learning, refine career goals, and prepare for the rigors of graduate school. Students can choose to work on a project of their own design, or as part of a faculty member's research grant. All students conducting research select a faculty mentor who advises them throughout the research process.

Learn more about Summer Research Fellowships and Academic Year Research Grants opportunities:

**as.richmond.edu/student-research
ursf.richmond.edu**

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www.richmond.edu/guarantee

QUESTIONS ABOUT A&S STUDENT RESEARCH OPPORTUNITIES?

Contact as@richmond.edu.



Notes





THE **SCHOOL OF ARTS & SCIENCES** IS THE HEART OF THE UNIVERSITY OF RICHMOND.

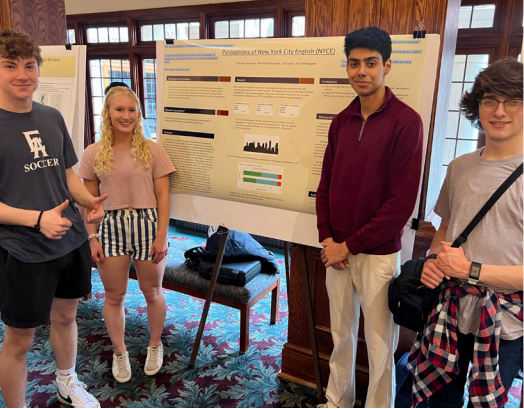
Though we have an expansive and diverse list of expertise, experiences, and learning opportunities we pride ourselves on being a tight-knit community of lifelong learners bound together by one common mission. Our A&S community — made up of students, faculty, alumni, and staff — questions the unknown, seeks answers, and thrives by learning how to turn new-found knowledge into action. From art history to physics, Arts & Sciences prepares students to be committed lifelong learners who challenge societal and intellectual barriers, who provide ethical leadership, and who lead sustainable and meaningful lives.

Every Richmond student begins their undergraduate career in Arts & Sciences, placing us at the heart of Richmond's liberal arts experience. We implement a broad-based, integrative educational approach while valuing the power of an inclusive community where faculty, students, alumni, and staff all inquire, discover, and take risks together.

Together, we're fostering intellectually nimble global leaders capable of critical thinking and adaption in a diverse and ever-changing world.

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A TRADITION OF CELEBRATING OUR COMMUNITY OF LEARNERS

PAST A&S STUDENT SYMPOSIUM PHOTOGRAPHY BY KIM LEE SCHMIDT



UNIVERSITY OF RICHMOND
School of Arts & Sciences

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