



34TH ANNUAL STUDENT SYMPOSIUM

CELEBRATING OUR COMMUNITY OF LEARNERS

FRIDAY, APRIL 12 | 12:30 PM - 6 PM

Tyler Haynes Commons, Modlin Center for the Arts, and
Atrium at the Gottwald Center for the Sciences



RICHMOND
School of Arts & Sciences

as.richmond.edu/symposium



A TRADITION OF CELEBRATING OUR COMMUNITY OF LEARNERS

PHOTOGRAPHY FROM 2018 STUDENT SYMPOSIUM BY KIM LEE SCHMIDT



Dean's Welcome

Dear Friends:

Welcome to the School of Arts & Sciences' Student Symposium at the University of Richmond. We are thrilled to be celebrating the 34th year of this wonderful event, an occasion that highlights the dedication of our diverse community of learners, especially our students and their faculty mentors.

Last year, 266 Arts & Sciences students participated in a summer research experience with funding from UR Summer Fellowships, Arts & Sciences, or an external funding source. Many students continued their research pursuits during the academic year, or extended a project into a second or third academic endeavor. Several student researchers co-authored peer-reviewed journal articles with their faculty mentors, and others presented their work publicly at conferences, on stage, or in a gallery exhibit. Today, over 300 students share their research with friends, family, faculty, and peers in the form of posters, exhibits, performances, and oral presentations.

This year's Symposium includes such varied presentations as "The Effects of Health Literacy on Patients Health Optimism and Treatment Adherence;" "Race, Space, and Coal Waste: A Critical Environmental Justice Analysis of Central Appalachia's Prison Industry;" "Reconceptualizing the International Humanitarian Organization- IOM and UNHCR at Europe's External Borders;" and others within our annual theme, *Contested Spaces*, such as, "Contesting Voices: The Issue of Incorporating Outside Sources into an Argument."

With student presenters in disciplines across the arts, languages, cultures, humanities, social sciences, natural sciences, and applied sciences, the Student Symposium reflects the breadth and depth of the curriculum in the School of Arts & Sciences, the heart of the University of Richmond's liberal arts enterprise. We are committed to supporting the professional and psychosocial development of our students by providing them opportunities to pursue projects which further reflection, creativity, and the production of knowledge. Our students do this work alongside esteemed faculty.

Thank you for being here today to celebrate our students and their scholarship.

Yours truly,

A handwritten signature in blue ink, appearing to read 'Patrice Rankine', with a long horizontal line extending to the right.

Patrice Rankine, Professor of Classics
Dean, School of Arts and Sciences



On the cover

IDENTITY THREADS BY EMMA FELT

Quilts have long served as icons of American domesticity that embody familial and social connections while allowing for freedom of expression and individuality. With their patterns both archetypal and personal, quilts richly represent the times in which they were made and the people who create them.

“I designed this dress with an antebellum-style bottom and an Asian-style top to reflect my Asian-American heritage, melding old and new scraps, piecing history alongside the present. The un-apologetically vibrant visible exterior concealed the vulnerable interior; the same dress reversed completely into black to represent the quiet and the shy. To me, this balance represented in the fabric by its tactile familiar quality may have been lost in any other art form.” —EMMA FELT, VMAP ‘17



Symposium Locations & Times

TYLER HAYNES COMMONS | 12:30-5:00 P.M.

1ST FLOOR | 1:00-5:00 P.M.

ALICE HAYNES ROOM

Poster Presentations

THE CURRENT

Career Services Senior Survey | Thank You Notes | King of Pops Refreshment Cart

2ND FLOOR | 12:00-5:00 P.M.

HANGING LOUNGE

Symposium Check-In

3RD FLOOR | 12:30-5:00 P.M.

Oral Presentations

Rooms 305 | Room 310 | Room 321 | Room 346 | Room 348

MODLIN CENTER FOR THE ARTS | 1:00-5:00 P.M.

HARNETT MUSEUM OF ARTS | 1ST FLOOR

HARNETT PRINT STUDY CENTER | 2ND FLOOR

COUSINS STUDIO THEATRE, 1ST FLOOR | 2:45-3:00 P.M.

ATRIUM AT THE GOTTWALD CENTER FOR THE SCIENCES

ARTS & SCIENCES RECEPTION FIRST FLOOR | 5:00-6:00 P.M.

THE FORUM

TACO STAND | 12:00-1:30 P.M.

University themed balloons will mark each location.

Artist Presentations

Artwork will be on display throughout Symposium 1-5 p.m.

**HARNETT MUSEUM OF ART,
MODLIN CENTER FOR THE ARTS**

3:00–3:40 P.M.

VI TRINH

Senior Thesis Exhibition

FACULTY MENTOR: Brittany Nelson

EIBHLIN VILLALTA

Solas

FACULTY MENTOR: Brittany Nelson

**HARNETT PRINT STUDY CENTER,
MODLIN CENTER FOR THE ARTS**

3:40–5:00 P.M.

CARSON WATLINGTON

Reconstructing Recollected Landscapes Through Oil Painting

FACULTY MENTOR: Erling Sjovold

CASEY MURANO

Contemplative Maps

FACULTY MENTOR: Tanja Softic

YUWEI LIN

Art within Emotion

FACULTY MENTOR: Tanja Softic

MORGAN MITCHELL

The Human Comedy: Prints and Drawing by Isabel Bishop

FACULTY MENTOR: Richard Waller

COUSINS STUDIO THEATER, MODLIN CENTER FOR THE ARTS

2:45-3:00 P.M.

LIZ MINDER

Can We Light "Green" and Still Create Art? Stage Four

FACULTY MENTOR: Maja White



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.

NOTE: *All information was correct at the time of publication.*

Oral Presentations

All oral presentations will be held in the Tyler Haynes Commons, 3rd floor. Signage will guide you to each location. Please stay for the duration of each panel, to support all students who are presenting in the session.

TYLER HAYNES COMMONS, ROOM 305

12:30-2:10 P.M.

RHETORIC AND COMMUNICATION STUDIES I

MARISSA BROWN, KEITH ODDO

Race and Racism Oral Histories

FACULTY MENTOR: Nicole Maurantonio

Rhetoric and Communication Studies I

KRISTI MUKK, JOSHUA KIM, CATHERINE FRANCESKI, TUCKER SHELLEY

Reflections on the Archive: Untold Narratives at the University of Richmond

Contested Spaces

FACULTY MENTORS: Irina Rogova, Nicole Maurantonio

MYSIA PERRY, AYELE D'ALMEIDA, JACOB ROBERSON

UR's Hidden History: Bringing Light to Marginalized Voices

Contested Spaces

FACULTY MENTORS: Patricia Herrera, Bedelia Richards

JACOB ROBERSON

The New Age Plantation: The NCAA's Effect on the Black Student Experience at University

Contested Spaces

FACULTY MENTOR: Atiya Husain

ZACHARY CAIN

A Process, a Sound, a Spirit: Actor-Network Theory in a Richmond, VA Recording Studio

FACULTY MENTORS: Andy McGraw, Joanna Love

2:15-3:15 P.M.

RHETORIC AND COMMUNICATION STUDIES II

MARY MCKELLER

Rhetorical Arguments of the Equal Rights Amendment

FACULTY MENTOR: MariLee Mifsud

KRISTI MUKK

Rhetorics of Cultural Hybridity/Diasporic Identity: A Case Study of Tennis

Player Naomi Osaka

Contested Spaces

FACULTY MENTOR: MariLee Mifsud

CORY SCHUTTER, DESTINY RILEY, MARY MCKELLER, SABRINA ESCOBAR

Rhetorics of Gender Violence

FACULTY MENTOR: MariLee Mifsud

3:20-4:20 P.M.

WOMEN, GENDER, AND SEXUALITY STUDIES

KYLIE BRITT

Race In Feminist & Queer Thought Senior Capstone

FACULTY MENTOR: Ladelle McWhorter

CORY SCHUTTER

Yaaaaas Kween: Rhetorics of Appropriation in White Gay Culture

FACULTY MENTOR: Ladelle McWhorter

KEXIN LI

The Shame of Asian Comfort Women

Contested Spaces

FACULTY MENTOR: Monti Datta

Oral Presentations

TYLER HAYNES COMMONS, ROOM 310

12:30-2:00 P.M.
HISTORY

JESSICA WINKLER

Reconceptualizing the International Humanitarian Organization-IOM and UNHCR at Europe's External Borders

Contested Spaces

FACULTY MENTORS: Rania Sweis, David Brandenberger

NORA GEER

Mapping the Ford Foundation in the Middle East: A Visual Narrative of the Foundation's Evolving Development Objectives during the Cold War

FACULTY MENTORS: Timothy Barney, Nicole Sackley

ERIC BOSSERT

Do No Harm: Orientalism and British Doctors in WWI Middle East

Contested Spaces

FACULTY MENTOR: Yucel Yanikdag

NADIA NEMAN

Bedros Kurkyasharian: An Armenian in the World War I Ottoman Army

Contested Spaces

FACULTY MENTOR: Yucel Yanikdag

2:00-3:15 P.M.
HISTORY HONORS

THOMAS VANDERBEEK

"Wir gedenken der Opfer": German Public Memory and the Issues of Commemoration

FACULTY MENTORS: David Brandenberger, Michelle Kahn

ELENA PALAZZOLO

Free French “gentlemen of couleur”: Reconsidering Race, Ethnicity, and Immigration in Philadelphia’s Catering Industry, 1870-1930

Contested Spaces

FACULTY MENTOR: Sydney Watts

CAITLIN LIVESEY

Censorship of Confederate Newspapers during Union Occupation

FACULTY MENTOR: Robert Kenzer

3:20-4:20 P.M.

LANGUAGES, LITERATURES, AND CULTURES

ELENA PALAZZOLO

“Il est bon, aujourd’hui, le boudin”: Food Aestheticization and Taste in Zola’s Naturalist Novels

FACULTY MENTORS: Sara Pappas, Olivier Delers

ELIZA STURGEON

Hell Overwhelmed with Millennials, Wardens Scrambling

FACULTY MENTOR: Lidia Radi

THOMAS VANDERBEEK

The “Protestant Work Ethic” in Death in Venice and Gustav von Aschenbach’s Economic Deviance

FACULTY MENTOR: Caroline Weist

MIKE LAPOSATA

Rome Makes Laws: The Imperial Crown Controversy and its Influence on the Crusades of Innocent III

FACULTY MENTOR: Martin Sulzer-Reichel

Oral Presentations

TYLER HAYNES COMMONS, ROOM 321

12:30-1:30 P.M.
ART HISTORY I

FRANCES GICHNER

The Preservation and Treatment of Sacred Spaces in Cyprus

FACULTY MENTORS: Agnieszka Szymanska

ADRIANA SALMERON

Ideas of the Afterlife in Ancient Egypt, Greece and Christianity

FACULTY MENTORS: Agnieszka Szymanska, Elizabeth Baughan

ALEXANDRA CASTIGLIA

Medici Women: Considering Art Patronage in Renaissance Florence

FACULTY MENTORS: Agnieszka Szymanska, Elena Calvillo

REID DICKIE

Ballerinas Through the Lens of Degas

FACULTY MENTORS: Agnieszka Szymanska, Elena Calvillo

1:30-2:30 P.M.
ART HISTORY II

SOFIA NICOLET

Richard Neutra: Redefining the Architect-Patron Relationship

FACULTY MENTORS: Agnieszka Szymanska, Jeannine Keefer

RAELYN WILLIAMS

Performance Art and the Other

Contested Spaces

FACULTY MENTORS: Agnieszka Szymanska, Elena Calvillo

SOPHIE BROOKE

The Art Market

FACULTY MENTORS: Agnieszka Szymanska, Elena Calvillo

2:40-4:00 P.M.
GEOGRAPHY, ANTHROPOLOGY
& CRIMINAL JUSTICE

PEYTON CARTER

Marketing Disability: Navigating the Ethics of Nonprofit Marketing and Development

FACULTY MENTOR: Jan French

CHERELLE COTTON

Shattering the Glass Ceiling: Black Women in Politics

FACULTY MENTOR: Jan French

ALICIA JIGGETTS

The Criminal (In)Justice System of Virginia

Contested Spaces

FACULTY MENTOR: Jan French

ALEXIS SZEPESEY

Race, Space, and Coal Waste: A Critical Environmental Justice Analysis of Central Appalachia's Prison Industry

Contested Spaces

FACULTY MENTOR: Mary Finley-Brook

4:10-4:50 P.M.
ECONOMICS

ELIZABETH MEJIA-RICART

The Sustainability and Longevity of Pioneer Black Banks

Contested Spaces

FACULTY MENTOR: Robert Dolan

RUHI NAHATA

Economics in Arranged Marriages in India

FACULTY MENTOR: Chad Curtis

Oral Presentations

TYLER HAYNES COMMONS, ROOM 346

12:30-1:25 P.M.
PSYCHOLOGY

MIA CASTAGNERO

Evaluating the Effects of Health Literacy in Patients with Chronic Kidney Disease

FACULTY MENTOR: Camilla Nonterah

HEATHER GARDINER

*The Effects of Health Literacy on Patients' Health Optimism and Treatment Adherence
Contested Spaces*

FACULTY MENTOR: Camilla Nonterah

MINRU ZHAO

Forgiveness and the Psychological Well-being of Patients with CKD

FACULTY MENTOR: Camilla Nonterah

1:30-2:50 P.M.
BIOLOGY AND PHYSICS

RUHAN FARSIN

*Investigating Heme Toxicity in *Sodalis glossinidius**

FACULTY MENTOR: Laura Runyen-Janecky

RACHEL LANTZ

*The Impact of Elevation on Pollen Viability and Limitation of *Mimulus tilingii**

FACULTY MENTOR: Carrie Wu

OMAR AGUILAR

*Spectroscopic Ellipsometry Investigation of the Optoelectronic Properties
of Zn1-xCd_xO Thin Films Deposited via Spray Pyrolysis*

FACULTY MENTOR: Mariama Rebello de Sousa Dias

KYLIE BRITT

*Fabrication and Characterization of Vanadium Pentoxide Thin-films
via Spray Pyrolysis Method*

FACULTY MENTOR: Mariama Rebello de Sousa Dias

3:00-4:40 P.M.

POLITICAL SCIENCE AND INTERNATIONAL STUDIES

CHRIS CASSELLA

Shooting Blanks: A Commentary on Gun Control

Contested Spaces

FACULTY MENTOR: Jennifer Erkulwater

KAY DERVISHI

*The Stars of Postcommunist Transition versus a Democratic Laggard: Causes of
Democratic Backsliding in Hungary, Poland, and Romania*

FACULTY MENTOR: Aleksandra Sznajder Lee

ANNIKA SAMPEDRO

The Impacts of Deportation on Women in the Northern Triangle

Contested Spaces

FACULTY MENTOR: Jenny Pribble

VIRGINIA SUN

The Legal Scholarship and Social Activism of Jacobus tenBroek

FACULTY MENTOR: Jennifer Erkulwater

HALEY NEUENFELDT

The Effects of Climate Change on Poverty in Coffee Producing Regions of El Salvador

FACULTY MENTOR: Jenny Pribble

Oral Presentations

TYLER HAYNES COMMONS, ROOM 348

12:30-1:20 P.M.
CLASSICAL STUDIES

LAUREN COSTELLO

The Significance of Epiphany Dreams in Ancient Greece

FACULTY MENTOR: Julie Laskaris

JASMINE COUSINS

The Evolution of Hysteria

FACULTY MENTOR: Julie Laskaris

LILLIANNA IZO

"They Used to Call Me Chaos": An Interpretation of Janus in Ovid's Fasti

FACULTY MENTOR: Julie Laskaris

1:30-2:30 P.M.
ENGLISH HONORS

JACK DEANGELIS

Social Skepticism, Penetrabilia, and Hawthorne's Veiled Ethics

FACULTY MENTOR: Kevin Pelletier

HUNTER MOYLER

The Confederate Lost Cause in Literature and Film

Contested Spaces

FACULTY MENTOR: Abigail Cheever

ROSINA D'ANGELO

Analyzing Empathy in George Eliot's Novels

FACULTY MENTOR: Elisabeth Gruner

2:30-3:50 P.M. FICTION, NON-FICTION, AND TRANSLATION

EMILIE KNUDSEN

Tasting Hwaet

FACULTY MENTOR: David Stevens

JESSICA WINKLER

Storytelling to Live: Global Experiences of Truth and Reconciliation

Contested Spaces

FACULTY MENTOR: Bert Ashe

KYRA BENFORTE

Anilda Ibrahimi, Rosso Come Una Sposa: A Translation and Analysis

FACULTY MENTORS: Lidia Radi, Anthony Russell

ALEXANDRA SMITH

Racconti di Cristina Ali Farrah

FACULTY MENTORS: Lidia Radi, Anthony Russell

4:00-4:40 P.M. PHILOSOPHY

KRISHNA LOHIYA

Character, Responsibility, and Moral Obligation

FACULTY MENTOR: Nancy Schaubert

JULIAN SCOTT

Forgiveness and Blame: Finding Compatible Accounts

FACULTY MENTOR: Nancy Schaubert

Poster Presentations

All poster presentations will be held in the Alice Haynes Room of the Tyler Haynes Commons. To locate specific posters please consult room layout maps posted at the entrance.

TYLER HAYNES COMMONS, ALICE HAYNES ROOM

1:00-2:15 P.M.

FRANCY CABRERA PAZ, FAITH PINCKNEY

Induction of M2 Regulatory Macrophages Through Adrenergic Receptor Signaling in the RAW264.7 Macrophage Cell Line

FACULTY MENTOR: Krista Stenger

POSTER #1

BRIANNA LEBECK

Investigating the Impacts of Hurricanes on Marine Life

FACULTY MENTOR: Malcolm Hill

POSTER #2

JAMAR WASHINGTON

An Investigation into the Mechanism by which a Wave of F-actin Propagates through Mitochondria

FACULTY MENTORS: Omar Quintero, Erika Holzbaur

POSTER #3

JARED DYKE

Identifying Muscle-like Contractile Machinery in Sponges

FACULTY MENTOR: Omar Quintero

POSTER #4

WILLIAM LORD

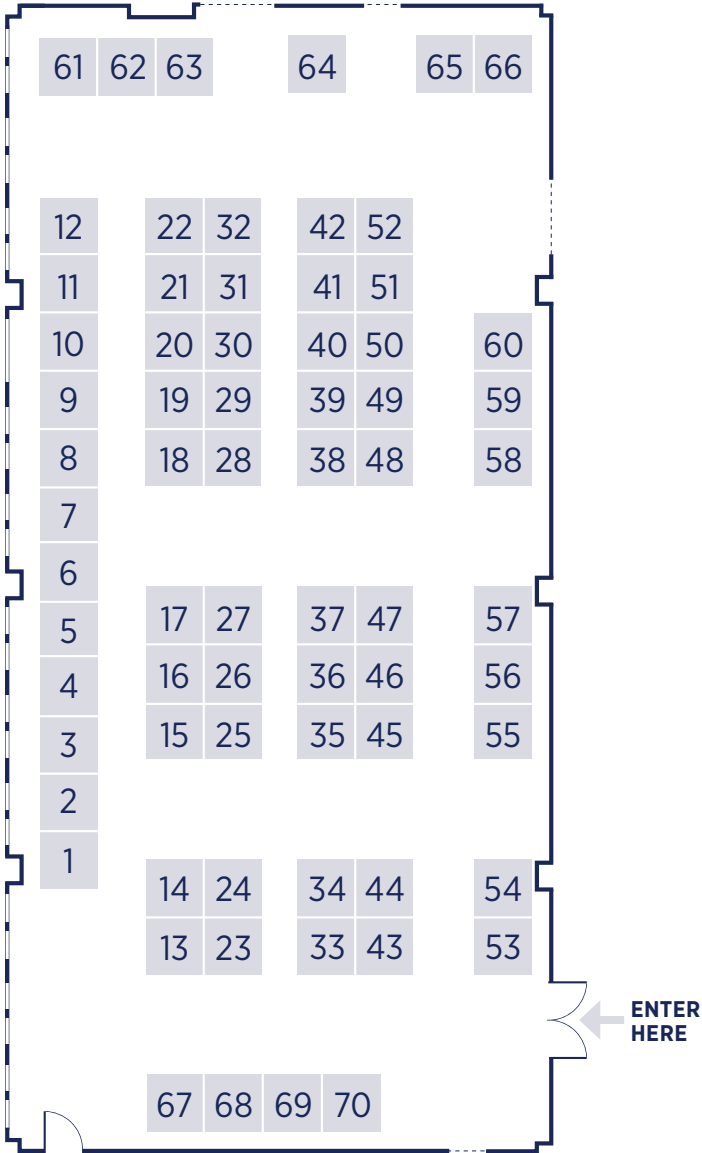
Tip60 Acetyltransferase in a Drosophila model of Spinocerebellar Ataxia Type 3

FACULTY MENTOR: John Warrick

POSTER #5

POSTER PRESENTATION FLOORPLAN

ALL POSTER PRESENTATIONS WILL BE HELD IN THE ALICE HAYNES ROOM,
ORGANIZED BY ASSIGNED SPACE NUMBERS.



Poster Presentations

1:00-2:15 P.M. *continued*

SIWANTA THAPA

The Influence of Tip60 on Axonal Blockages and Neuronal Dysfunction in a Drosophila Model of Machado-Joseph Disease

FACULTY MENTOR: John Warrick

POSTER #6

JUSTINA CHOO

Examining Aggregate Formation in Glial Cells of a Drosophila Model of Machado-Joseph Disease

FACULTY MENTOR: John Warrick

POSTER #7

JONATHAN HUANG

Retinoic Acid Receptor Function in Hindbrain and Spinal Cord Development

FACULTY MENTOR: Isaac Skromne

POSTER #8

PRIZER BENJAMIN

The Effect of Wnt Knockdown on Motor Neuron Development

FACULTY MENTOR: Isaac Skromne

POSTER #9

VALERIE GALATI

Regional and Interspecific Variation in Crown Feather Reflectance in Two Hybridizing Warblers

FACULTY MENTORS: Kristine Grayson, Lesley Bulluck

POSTER #10

ASHLEY APPOLON

Gypsy Moth Mortality and Performance at Increasing Temperatures Across the Invasion Front

FACULTY MENTORS: Kristine Grayson, Lily Thompson

POSTER #11

GRIFFIN MYERS

Comparing Patterns of Activity in Different Tick Populations Across Virginia

FACULTY MENTOR: Jory Brinkerhoff

POSTER #12

WALKER BLACK, MOLLY MCCOY

Effect of Polysubstituted Pyrroles on Macrophage Activity

FACULTY MENTOR: Krista Stenger

POSTER #13

JASMINE FENG, ANNA LEIGH WHITE

Transcriptomic Analysis of CAD Cell Differentiation

FACULTY MENTOR: Omar Quintero

POSTER #14

BARBARA FUJITA, NATALIE MELTON

MYO19 Interacts Weakly with Miro-family GTPase on Mitochondrial Outer Membrane

FACULTY MENTOR: Omar Quintero

POSTER #15

PETRA HAFKER

*The Effect of Geographic Region on Chill Coma Recovery Time in *Lymantria dispar**

FACULTY MENTORS: Lily Thompson, Kristine Grayson

POSTER #16

J. PARR MCQUEEN

A Two-Year Report of Nematode Communities under Jungle Chocolate Farms

FACULTY MENTOR: Amy Treonis

POSTER #17

BRYLE BARRAMEDA, LESLY CORADO-SANTIAGO

Detection of Bone Mineralization in Larvae and Adult Zebrafish Using Carbon Nanodots

FACULTY MENTOR: Isaac Skromne

POSTER #18

BRIER CLOUGH

Dorsal-Ventral Regulation of the Cdx4 Gene in Chicken Embryos

FACULTY MENTOR: Isaac Skromne

POSTER #19

Poster Presentations

1:00-2:15 P.M. *continued*

MARIA SEITZ

Invertebrates of the Forest Floor in the James River Park System

FACULTY MENTOR: Kristine Grayson

POSTER #20

ROBERT OSTROM

Hymenopteran Biodiversity within Richmond City

FACULTY MENTORS: Kristine Grayson, Art Evans

POSTER #21

DANA ORIANA MORCILLO

Demographic Effects of a Major Hurricane in a Non-Human Primate Population

FACULTY MENTOR: Raisa Hernández Pacheco

POSTER #22

STEPHEN OWEN, BERKE NURI, ABHISHECK SHILPARKAR

Mitigating Risk While Complying with Data Retention Laws

FACULTY MENTOR: Douglas Szajda

POSTER #23

SINAN KIVANC

Liver Allocation Algorithms

FACULTY MENTOR: Prateek Bhakta

POSTER #24

SHUZH I ZENG, AHMED AUNGWIN

Modeling the Role of Plasmids in Antibiotic Resistance

FACULTY MENTOR: Lester Caudill

POSTER #25

MICHAEL WYATT

Catastrophic Outlier Identification in Photometric Redshifts with Effective Probability Distributions

FACULTY MENTOR: Jack Singal

POSTER #26

SYED JIBRAN HAIDER

Particle Creation in Electric Fields and Curved Spacetimes

FACULTY MENTOR: Jack Singal

POSTER #27

MICHAEL KITIMET

Halogen Bonding as a Mechanism for Aromatic and Non-aromatic Explosive Detection

FACULTY MENTOR: Carol Parish

POSTER #28

JUSTIN AIRAS

Investigating the Structure-Function of MYO19

FACULTY MENTORS: Carol Parish, Omar Quintero

POSTER #29

TRAVIS TERRY

Synthesis and Investigation of Transition Metal Complexes with Benzimidazole-Based Ligands for Electrochemical Reduction of Carbon Dioxide

FACULTY MENTOR: Michael Norris

POSTER #30

ZACHARY ORACHEFF

Trimethylsilyl-trifluoromethanesulfonate Mediated Additions of Indoles to Aldehydes and Nitrones

FACULTY MENTOR: Wade Downey

POSTER #31

GEORGES LECONTE

Synthesis of 8-thio-2'-deoxyguanosine

FACULTY MENTOR: Michelle Hamm

POSTER #32

EBERARDO RAYMUNDO

Modeling Sponge-Algae Symbiosis with Agent-Based Simulation

FACULTY MENTOR: Barry Lawson

POSTER #33

MAXINE XIN

Connectivity of Coloring Graphs

FACULTY MENTOR: Prateek Bhakta

POSTER #34

Poster Presentations

1:00-2:15 P.M. *continued*

RACHEL MORRIS, MILES CLIKEMAN

Ineffective Sets and Region Crossing Change

FACULTY MENTOR: Heather Russell

POSTER #35

YANG YANG

Diffusion of Innovations: Adoption of New Strategy in Grid Networks

FACULTY MENTOR: Michael Kerckhove

POSTER #36

EDWARD JANG, EMILIO DELTORO CALDERON

Stochastic Chemical Reaction by Loop Closing Method

FACULTY MENTOR: Ovidiu Lipan

POSTER #37

SALMIKA WAIREGI

Spin-Flip Characterization of the Bergman Cyclization of the Hepta-1,6-diyne System

FACULTY MENTOR: Carol Parish

POSTER #38

MIKAELA ROSEN

Characterization of the Isofunctional Clusters of Arsenate Reductase Proteins using Molecular Dynamics

FACULTY MENTOR: Carol Parish

POSTER #39

KEVIN KIM

In Situ Silyl Ketene Acetal Formation-substitution Reactions of N-acetyloxazolidinone

FACULTY MENTOR: Wade Downey

POSTER #40

SAMUEL BOTTUM

Aldol Condensations and Nitrile Aldol Reactions Promoted by Trimethylsilyl Trifluoromethanesulfonate

FACULTY MENTOR: Wade Downey

POSTER #41

NATHAN DINH

Sintering-Induced Nucleation and Growth of Noble Metal Nanoparticles for Plasmonic Resonance Ceramic Color

FACULTY MENTORS: Ryan Coppage, Michael Leopold

POSTER #42

AALOK SATHE, ALEE BONHAM

Investigating the Time Course of Word Reading

FACULTY MENTOR: Cindy Bukach

POSTER #43

GLENN ROSE

Individual Differences in Attractiveness Perception Predict Social Inferences, but not All Altruistic Desires

FACULTY MENTORS: Edwin Burns, Cindy Bukach

POSTER #44

TIMOTHY WING

The Relationship Between Suspense & Advertisement: Responses to Tension-Inducing Stimuli

FACULTY MENTOR: Kristjen Lundberg

POSTER #45

ALLY MARRINAN

The Changes in Perceptions of Heroes Over Time

FACULTY MENTOR: Scott Allison

POSTER #46

SMARAGDA SPYROU, ALEXA M. BERTRAND

Cultural Differences in Perception of Heroes: Greece, India, and the US

FACULTY MENTOR: Scott Allison

POSTER #47

ARRMAN KYAW

Richmond and Recovery

FACULTY MENTOR: Thomas Mullen

POSTER #48

TANA KUPTANON

Image and Propaganda in "Soviet Life" Magazine

FACULTY MENTOR: Yvonne Howell

POSTER #49

Poster Presentations

1:00-2:15 P.M. *continued*

CATHERINE DONOVAN

Why there is no #MoiAussi: Translating the French #MeToo

FACULTY MENTOR: Olivier Delers

POSTER #50

NIA CAMBRIDGE

Mapping Vulnerability of Island Communities to Climate Change and Globalization: A Case Study of Ragged Island, Bahamas

FACULTY MENTOR: David Salisbury

POSTER #51

RONG BAO

Mapping Green Philanthropy and Sustainable Development: A Case Study of the Ford Foundation, 1952-2004

FACULTY MENTORS: David Salisbury, Timothy Barney

POSTER #52

GRACE LYNCH, GIBRAN MERCHANT, ROSIE ARMSTRONG, MAYA WRIGHT

Parental Mental Health and Parenting Practices

FACULTY MENTOR: Lisa Jobe-Shields

POSTER #53

PEIZHI LI, OLIVIA HARDING, XIAODI HU

Teaching Rats to Drive: A Novel Method for Spatial Navigation Research in Rats

FACULTY MENTOR: Elizabeth Crawford

POSTER #54

MEGAN WIRTZ

Further Examining the Relationship between Social Class and Empathic Accuracy

FACULTY MENTOR: Kristjen Lundberg

POSTER #55

DOMINIQUE HARRINGTON

But I'm Not Racist...Am I?: Implicit Bias and Confronting Prejudice at the Individual and Systemic Levels

FACULTY MENTOR: Kristjen Lundberg

POSTER #56

SARA CLOONAN

"It's part of my responsibility to help": Developing a Measure of Motivations for Extrinsic Emotion Regulation

FACULTY MENTOR: Kristjen Lundberg

POSTER #57

MEGHANN LEWIS

Barriers to Minority Access to Healthcare in Central and Eastern Europe and Latin America

FACULTY MENTOR: Aleksandra Sznajder Lee

POSTER #58

JIEYI DING

Leadership and Intergroup Relations

Contested Spaces

FACULTY MENTOR: George Goethals

POSTER #59

BENEDICT ROEMER

Self-interest versus Social-interest Policy Framing: The Case of Inter-district School Choice

FACULTY MENTOR: Allison Archer

POSTER #60

NATHAN BURNS

Contesting Voices: The Issue of Incorporating Outside Sources into an Argument

Contested Spaces

FACULTY MENTOR: Joe Essid

POSTER #61

CLAIRE NOPPENBERGER

An Ultrasound of Womxn's Reproductive Health Rhetorics

Contested Spaces

FACULTY MENTOR: MariLee Mifsud

POSTER #62

Poster Presentations

1:00-2:15 P.M. *continued*

NIHAL SRIRAMANENI, NATALIE GILLISSE, KENDRA O'CONNOR

Our Ideal School

FACULTY MENTOR: Elisabeth Gruner

POSTER #63

MAGGIE CASTELLI, EMMA HOHOLIK, MOLLY KRULAK, JOHN CRUZ

From the Actual to the Theoretical: How We Can Improve American Education

FACULTY MENTOR: Elisabeth Gruner

POSTER #64

CASEY MURANO, KAREN FLEMING, EDWARD JANG, RACHEL PERRY

Education in Fiction and Fact Capstone Project: Making School Cool

FACULTY MENTOR: Elisabeth Gruner

POSTER #65

KATHERINE MURBACH

Partners in the Arts: Arts Integrated Education

FACULTY MENTOR: Mavis Brown

POSTER #66

LIZ MINDER

Can We Light "Green" and Still Create Art? Stage Four

FACULTY MENTOR: Maja White

POSTER #67

EMILY LIMONCELLI

Motional

FACULTY MENTOR: Anne Van Gelder

POSTER #68

LAUREN LAMBERT

Eudaimonia: Creative Process and Performance

FACULTY MENTOR: Anne Van Gelder

POSTER #69



PHOTOGRAPHY FROM 2018 STUDENT SYMPOSIUM BY KIM LEE SCHMIDT

Poster Presentations

1:00-2:15 P.M. *continued*

MADISON ERNSTES

Coalesce

FACULTY MENTORS: Alicia Diaz, Anne Van Gelder

POSTER #70

TYLER HAYNES COMMONS, ALICE HAYNES ROOM

2:15-3:30 P.M.

MAKAYLA CALLENDER, JACOB AIRAS, CHARLES MILLER, LAUREN STENSON

HIV: A Global Pandemic

FACULTY MENTORS: Shannon Jones, Kristine Nolin

POSTER #1

BRENDA LIM

Investigating the Cytotoxic Effects of Electronic Cigarettes with Varying Flavor Profiles

FACULTY MENTOR: Shannon Jones

POSTER #2

BAILEY PARSONS

Analysis of the Effect of Epigallocatechin-3-gallate (EGCG) on Particulate Matter-induced Immune Activation.

FACULTY MENTOR: Shannon Jones

POSTER #3

MELISSA PERADO LEWIS

Anti-Inflammatory Properties of Curcumin

FACULTY MENTOR: Shannon Jones

POSTER #4

GEORGE QIAO

Pro-Inflammatory Effects of Wood Smoke

FACULTY MENTOR: Shannon Jones

POSTER #5

GABBIE BURNHAM

The Effects of E-Liquids in Various Nicotine Concentrations on Cytokine Excretion, Gene Expression

FACULTY MENTOR: Shannon Jones

POSTER #6

SAVANNAH DEL CID, JAJSANI ROANE

Investigating the Applications of VirA as a Component of a Biosynthetic Defense System

FACULTY MENTOR: Brian Pierce

POSTER #7

KATRINA KUHN

CRISPRi Knockdown of dnaK Expression in Sodalis glossinidius

FACULTY MENTOR: Laura Runyen-Janecky

POSTER #8

KATIE WALL

Characterizing the Sodalis glossinidius uspA Gene Through Expression in Escherichia coli

FACULTY MENTOR: Laura Runyen-Janecky

POSTER #9

MCKENZIE MURVIN

Methylation of Ded1 Affects Its Role in Translation

FACULTY MENTOR: Angie Hilliker

POSTER #10

HAILEY CONNOLLY

The Effects of Ded1 Methylation on mRNA Storage

FACULTY MENTOR: Angie Hilliker

POSTER #11

NINA VANATTA, ANDRÉ SHANNON, KEVIN KRUGE, BROOKLYN GRIFFIN

Interstellar Communication and the New Arecibo Message

FACULTY MENTOR: Amy Treonis

POSTER #12

CHANDLER, BARRETT, EMILY BREW, MICHELLE DEVLIN

An Investigation into the Pathogenesis and Treatment of HIV

FACULTY MENTORS: Shannon Jones, Kristine Nolin

POSTER #13

Poster Presentations

2:15-3:30 P.M. *continued*

LORETO MALINOWSKI, CARMEN LIN, JEARICE BLACK

The Effect of HIV and its Scientific History

FACULTY MENTORS: Shannon Jones, Kristine Nolin

POSTER #14

JULIAN STARKS, ELLE JACKSON, RASHEL AMADOR

The Progression of Human Immunodeficiency Virus

FACULTY MENTORS: Shannon Jones, Kristine Nolin

POSTER #15

DIAMOND WALKER

The Effect of E Cigarettes on The Immune System

FACULTY MENTOR: Shannon Jones

POSTER #16

AIDAN MURPHY, NICOLE WALKER, PETER PLOTAS, SABRINA MCCARRON

Rhizobium Radiobacter: Evaluating Virulence under Biofilm versus Planktonic Conditions

FACULTY MENTOR: Brian Pierce

POSTER #17

MAJD ABOUL HOSN, CAROLINA MONTOYA, ADDISON SWACKHAMMER

The Creation of a Phenol and Sugar Sensing Bacteria

FACULTY MENTOR: Brian Pierce

POSTER #18

ABRA GRANGER

Energetics of the Maleimide-based Acyclic Eneidyne

FACULTY MENTOR: Carol Parish

POSTER #19

KIANA GUNN

Investigations of Selective Estrogen Receptor Modulators in Lung Cancer

FACULTY MENTOR: Julie Pollock

POSTER #20

PEACE NYECHE

Transformation, Expression, Purification, and Characterization of Q8

FACULTY MENTORS: Julie Pollock, Kristine Nolin

POSTER #21

YUCHEN XIE, TEJA KINNEY, YASHWI JAIN

Are We Alone? The Historical Journey of the Search for Alien Intelligence

FACULTY MENTOR: Amy Treonis

POSTER #22

**SARENNA ENRIGHT, BRIANNA CHARLTON, CATHERINE BAYAS,
ALEJANDRO VILLALPANDO**

The Progression of HIV

FACULTY MENTORS: Shannon Jones, Kristine Nolin

POSTER #23

ABDUL QADEER REHAN

Optical Properties of AlAu Alloyed and Intermetallic Thin Films

FACULTY MENTOR: Mariama Rebello de Sousa Dias

POSTER #24

MIMI TRAN, GARRETT LANG

*The Effect of Collector Plates on the Modulus and Molecular Orientation
of Electrospun PEO Nanofibers*

FACULTY MENTOR: Christine Helms

POSTER #25

LILLIE MUCHA

Neural Networks for Image Classification

FACULTY MENTOR: Lewis Barnett

POSTER #26

HAMMAD HASSAN

Adversarial Training

FACULTY MENTOR: Lewis Barnett

POSTER #27

ELIZABETH HEAFNER, IVY ZHONG

Alkylation of Ketones and Thioesters with Propargyl and Allyl Carboxylates

FACULTY MENTOR: Wade Downey

POSTER #28

Poster Presentations

2:15-3:30 P.M. *continued*

DANI SKLAR

Alkylation-cyclization-aromatization Reactions of Ketones with (3-silyl)propargyl carboxylates to Yield 2-methylfurans

FACULTY MENTOR: Wade Downey

POSTER #29

ANISHA PATEL

Structural Preferences of Beryllium and Magnesium Dihalides

FACULTY MENTOR: Kelling Donald

POSTER #30

ULRICK GAILLARD

Structural Preferences of Group 2 Dihalide Clusters (cases of Ba and Sr)

FACULTY MENTOR: Kelling Donald

POSTER #31

TUAN LE

Finding Low Energy Isomers of Water - Sulfuric Acid Clusters Using Genetic Algorithm

FACULTY MENTOR: Samuel Abrash

POSTER #32

EMILY CHURCHILL

Voices of Conquest: The Fall of Nasrid Granada

Contested Spaces

FACULTY MENTOR: Aurora Hermida Ruiz

POSTER #33

ALESSANDRO MANUEL SERRANO

Fabrication of Neodymium Acetate Oxide Thin Films through Spin Coating Method

FACULTY MENTOR: Mariama Rebello de Sousa Dias

POSTER #34

AAQIL ZAKARYA

Group Flocking in Partially Known Environments

FACULTY MENTOR: Jory Denny

POSTER #35

BASIL ARAFAT

Implementing Neural Networks as a Sampling Technique in the Motion Planning Problem

FACULTY MENTOR: Jory Denny

POSTER #36

KEVIN JOHN ULEP

Quantum Mechanics Study of Polyaromatic Diradical Formation through Domino Cyclization

FACULTY MENTOR: Carol Parish

POSTER #37

YESIRETH SOLIS

Understanding the Molecular Dynamics of the HIV-1 Protease

FACULTY MENTOR: Carol Parish

POSTER #38

KARI FLICKER

Reactions between Acetonitrile and Nitrones

FACULTY MENTOR: Wade Downey

POSTER #39

GABRIEL STEWART

Investigations into the Nature of Bonding Group 5 OxyHalides: Sigma-Hole Interactions or Charge Transfer?

FACULTY MENTOR: Kelling Donald

POSTER #40

SUPREETH PRASAD

Investigations into σ -hole Interactions and Consequences for Structure

FACULTY MENTOR: Kelling Donald

POSTER #41

KELLEY LEE

Finding Low Energy Isomers of Sulfate - Water Clusters Using Computational Model Chemistry

FACULTY MENTOR: Samuel Abrash

POSTER #42

Poster Presentations

2:15-3:30 P.M. *continued*

CHRISTIAN DAIGLE

One Third of a Nation: Housing Crisis in Depression America, Hold the Immigrants

FACULTY MENTOR: Laura Browder

POSTER #43

MEGAN MCLAUGHLIN, SHANNON MCEVOY

Attitudes Towards Transplants

FACULTY MENTOR: Camilla Nonterah

POSTER #44

KACY WORKMAN, SYDNEY GARDNER, ALYSSA ROMANO, JEAN GONZALES

Evidence Based Practices in Child Welfare: Stakeholder Perceptions to Inform the Implementation of the Family First Prevention and Services Act

FACULTY MENTOR: Lisa Jobe-Shields

POSTER #45

EMILY KAMINSKY

Parent-Child Interaction Therapy in Early Childhood Physical Abuse: Relation to Internalizing Symptoms

FACULTY MENTOR: Lisa Jobe-Shields

POSTER #46

EMILY BRAUNEWELL, BRADLEY FISCHER

Moral Injury in Incarcerated Individuals

FACULTY MENTOR: Lisa Jobe-Shields

POSTER #47

BETH COOPER, PETER KADE, MALLORY HASKINS

Don't Worry, Be Happy: Insights into Longevity

FACULTY MENTOR: Jane Berry

POSTER #48

HANNAH WOLFE

The “Neglecting Negativity” Effect: How Emotional Valence of Words and Gaze Patterns During Encoding Impact Recognition Ability for Younger and Older Adults

FACULTY MENTOR: Jane Berry

POSTER #49

SHARON SHIN, ALLISON CHOE

An Investigation of Long-term Enriched Environment Exposure on Neurobehavioral Responses in Female Long-Evans Rats

FACULTY MENTORS: Kelly Lambert, Molly Kent

POSTER #50

DMITRY KOVALEV, BEN HART

Coping Styles and Psychological Loss: A Rodent Model for the Preclinical Investigation of Depression-like Symptoms

FACULTY MENTORS: Kelly Lambert, Molly Kent

POSTER #51

KATHERINE GILLENWATER, KELLY BREAKALL, SALLY WATANABE

Living the High Life: Investigating the Effects of Rat-Loft Enriched Environments on the Wellbeing and Emotional Resilience of Female Long-Evans Rats

FACULTY MENTOR: Kelly Lambert

POSTER #52

MARIAH CHARLTON, LUCA O'BRIEN, HEATHER GARDINER, MIA CASTAGNERO

Effects of Social Support on Treatment Adherence in Depressed Transplant Patients

FACULTY MENTOR: Camilla Nonterah

POSTER #54

SYDNEY WEISKOPF, MINRU ZHAO

Psychological Well-being of Patients with CKD

FACULTY MENTOR: Camilla Nonterah

POSTER #55

MADELINE WARD

Does Social Competence Buffer Depression's Effects on Children's Peer Relationships?

FACULTY MENTOR: Karen Kochel

POSTER #56

Poster Presentations

2:15-3:30 P.M. *continued*

LAUREN LAMBERT

Longitudinal Associations between Children's Self-worth, Perceived Control, and Peer Victimization Experiences

FACULTY MENTOR: Karen Kochel

POSTER #57

JACOB ROBERSON

*Promoting Positive Interracial Interactions: An Experimental Intervention
Contested Spaces*

FACULTY MENTOR: Crystal Hoyt

POSTER #58

NICK NATALE

An Investigation of Stress Responsivity and Neurobiological Effects of Probiotic-Supplemented Diets in Acutely Stressed Male Long-Evans Rats

FACULTY MENTORS: Kelly Lambert, Molly Kent

POSTER #59

DANIELLE LESERVE, CLARK GLORY, KELLY BREAKALL, ELI MEISEL

Driving Neurobiological Explorations: Preliminary Investigations of Biobehavioral Effects of Passive and Active Transportation on Emotional Resilience in Rattus norvegicus.

FACULTY MENTORS: Kelly Lambert, Molly Kent

POSTER #60

KIRA BARTNICK, ELIZ AKIN, ALEE BONHAM

Individual Differences in Neural Activity as Measured by the P300 Component

FACULTY MENTOR: Cindy Bukach

POSTER #63

CHRISTOPHER COTTER, CALLIE CINQUE, JANE SONG, KENDALL STEWART

Examining the Impact of Trauma and Post Traumatic Stress Disorder on Neural Measures of Vigilance

FACULTY MENTOR: Cindy Bukach

POSTER #64

CALLIE CINQUE, OLIVIA STIBOLT, KENDALL STEWART, ELIJAH MEISEL

Investigating How the Removal of External Facial Features

Affects Other-race Processing

FACULTY MENTOR: Cindy Bukach

POSTER #65

PASCALINE MUNEZERO, OLIVIA STIBOLT

A Quick Read: Affective Empathy Reduces the Time to Recognize

Identity in Video Morphs

FACULTY MENTOR: Cindy Bukach

POSTER #66

**BETTY DUAN, CATERINA ERDAS, MAX WALLACH, GRACE AHN,
JENIFER YI, KESHAV JHA, MARCUS FREITAG**

Something Smells Fishy: Fish Mislabeling in Richmond

FACULTY MENTOR: Carrie Wu

POSTER #67

**ASHTON WILLIS, NADIA IQBAL, HALEY HOM, ANTONIA KEMPE,
ETHAN ROSS, STEFAN JENSS**

Something's Fishy

FACULTY MENTOR: Carrie Wu

POSTER #68

LILLIANNA IZO

Site Cataloging for the Hacimusalar Project, Summer 2018

FACULTY MENTOR: Elizabeth Baughan

POSTER #69

JESSIE BONILLA

Holding On

FACULTY MENTOR: Kristin Bezio

POSTER #70



PHOTOGRAPHY FROM 2018 STUDENT SYMPOSIUM BY KIM LEE SCHMIDT

TYLER HAYNES COMMONS, ALICE HAYNES ROOM

3:30-4:45 P.M.

RHIANNON EDWARDS

Paeonol as an Anti-Inflammatory Treatment for Wood-Smoke Induce Lung Inflammation

FACULTY MENTOR: Shannon Jones

POSTER #1

DOWHA KARAR

Investigating Anti-Inflammatory Effects of Capsaicin in Woodsmoke and Acrolein Induced Inflammation

FACULTY MENTOR: Shannon Jones

POSTER #2

MELANIE CERRON

How E-Cigarettes Affects Macrophages

FACULTY MENTOR: Shannon Jones

POSTER #3

FIONA CARTER-TOD

Potential Nutritional Supplements to Combat the Inflammatory Effects of Woodsmoke and What This Could Mean for Developing Countries

FACULTY MENTOR: Shannon Jones

POSTER #4

DAJANAE BIVENS

The Effect of Sulfuraphane on Wood Smoke and Acrolein Induced Inflammation

FACULTY MENTOR: Shannon Jones

POSTER #5

SHANA BELLAMY

The Effect of E-Cigarettes on RAW 264.7 Macrophages

FACULTY MENTOR: Shannon Jones

POSTER #6

MICHAEL PITTMAN

Genetic Variants Identified in Ebstein's Anomaly Using Bioinformatic Analysis and Tools

FACULTY MENTOR: Denise Kay

POSTER #7

Poster Presentations

3:30-4:45 P.M. *continued*

SAMUEL ZIELINSKI

Investigations in the Mutagenic Potential of 8-oxo-2'-deoxyguanosine with Human Bypass Polymerases

FACULTY MENTOR: Michelle Hamm

POSTER #8

CHRISTINE ANCAJAS

Quantum Studies of Important Diradical Species

FACULTY MENTOR: Carol Parish

POSTER #9

MALIK BELL

Low Energy Intermediate Donor Acceptor Cyclopropane Investigation

FACULTY MENTOR: Carol Parish

POSTER #10

HUNTER EVANS

Molecular Dynamics of MEMO1: Peptide and Ligand Binding and Analysis

FACULTY MENTORS: Carol Parish, Julie Pollock

POSTER #11

EVAN CLARK, MATT MAHONEY, KRISTEN ELOFSON, JULIA SIEWERT

Application of 3-Chloroaldehydes to the Synthesis of 2-Arylquinolones

FACULTY MENTOR: John Gupton

POSTER #12

JANE CLELAND, ELIZABETH LOPEZ-LOPEZ

*Genetics and Mating System of Invasive Wavyleaf Basketgrass (*Oplismenus undulatifolius*)*

FACULTY MENTOR: Carrie Wu

POSTER #13

SOFIA BUSTAMANTE EGUIGUREN

*Characterizing Glandular Trichome Morphology and Secondary Chemistry in *Mimulus**

FACULTY MENTORS: Carrie Wu, Kristine Nolin

POSTER #14

SHANNON LAUGHLIN, RITWIK BOSE

External Modification and Characterization of a Virus-Like Particle

FACULTY MENTORS: Julie Pollock, Kristine Nolin

POSTER #15

JOSEPH MCEACHON

Characterization of Boronic Ester Pro-drug

FACULTY MENTOR: Julie Pollock

POSTER #16

STEPHANIE ELMALEH, SARA CAMILLI, MADDIE DELBEAU, CASSIE MARTIN

Development of a Model System to Study Sponge: Algal Symbiosis

FACULTY MENTOR: April Hill

POSTER #17

ANTHONY ISENHOUR, HANNAH FULOP

Investigating Conditional Mutants of Mtr4: An RNA Helicase Associated with the Nuclear Exosome

FACULTY MENTOR: Angie Hilliker

POSTER #18

JENNIFER PICIW

Identification of DED1 Suppressors Using Genomic Sequencing

FACULTY MENTOR: Angie Hilliker

POSTER #19

ELISE TATE

Characterizing the C-Terminal 42 Residues of the Amyloid Precursor Protein

FACULTY MENTOR: Carol Parish

POSTER #20

SURAJ BALA

Mutation of the Qb Virus-Like Particle

FACULTY MENTORS: Kristine Nolin, Julie Pollock

POSTER #21

KRISTEN STARKS, KATARINA ACOSTA, A'KAYLA WILLIAMS, RICH DIEP

Investigating HIV Pathogenesis

FACULTY MENTORS: Kristine Nolin, Shannon Jones

POSTER #22

Poster Presentations

3:30-4:45 P.M. *continued*

KRISTOP ROSARIO

Rapture, Blister, Burn: Sound and Properties Design, and Curation

FACULTY MENTORS: Maja White, Andy Mudd

POSTER #23

LIZ MINDER

Production Studies III: Lighting Design and Stage Management for Rapture, Blister, Burn

FACULTY MENTORS: Maja White, Walter Schoen

POSTER #24

JONATHAN RODRIGUEZ, PALMER ROBINS, SOPHIE BORCHART

Towards Simulating Emergency Scenarios Through Multi-Agent Systems

FACULTY MENTOR: Jory Denny

POSTER #25

HANGLIN ZHOU

Bézier Curve Local Planner

FACULTY MENTOR: Jory Denny

POSTER #26

MICHAEL BONIFONTE

Transfer Learning In Convolutional Neural Networks

FACULTY MENTOR: Lewis Barnett

POSTER #27

YUHE ZHU

Analysis of the Influence of Different Alignment Methods In Face Recognition System Using Deep Learning

FACULTY MENTOR: Lewis Barnett

POSTER #28

ISAIAH DUPLESSIS

Study of Proazaphosphatrane Ligands and Their Complexes

FACULTY MENTOR: Miles Johnson

POSTER #29

HILARY DJOMNANG FOKWA, SOPHIE WEINBERG

Synthesis of N-Phosphino-2-(phosphino)pyrrole Ligands for Catalysis

FACULTY MENTOR: Miles Johnson

POSTER #30

SARAH SHEN

Synthesis of Boronate Ester Derivates of Triphenylphosphine

FACULTY MENTOR: Miles Johnson

POSTER #31

CARLOS PEREZ MANDRY, MARIA FLORENTIN CORVALAN

A Flow Chemistry Implementation of the “Gupton Vinylogous Amide Chemistry” for High-yield, Regiospecific Synthesis of Unsymmetrical Polysubstituted Pyrroles

FACULTY MENTORS: Emma Goldman, Raymond Dominey

POSTER #32

BAILEY DAIGLE

Director for Production Studies III Showcase: Rapture, Blister, Burn

FACULTY MENTOR: Walter Schoen

POSTER #33

EMILIE KNUDSEN

The Scenic Design of Rapture, Blister, Burn

FACULTY MENTORS: Josafath Reynoso, Maja White

POSTER #34

SOFIA NICOLET

Curating an Exhibition

FACULTY MENTORS: Richard Waller, Elizabeth Schaltter

POSTER #35

FINNEGAN HU

Estimation of Human Judgement Ranking Error in Ranked Set Sampling

FACULTY MENTOR: Paul Kvam

POSTER #36

DIKSHA KATARIA, ALAMBY HE

Understanding Gerrymandering and Voter Distribution

FACULTY MENTOR: Paul Kvam

POSTER #37

Poster Presentations

3:30-4:45 P.M. *continued*

CONNOR MOONEY

Polychromatic Map Reconstruction Using Telescopes with Asymmetric Antenna Patterns

FACULTY MENTOR: Emory Bunn

POSTER #38

ERIC GOETZ

Using 3-Dimensional Fast Fourier Transforms to Simulate Cosmic Microwave Background Maps on a Spherical Cap

FACULTY MENTOR: Emory Bunn

POSTER #39

JOHN CAVALIERE, ALLISON SINICKI

Novel Reactions of Benzyne with Oximes

FACULTY MENTORS: Raymond Dominey, Emma Goldman

POSTER #40

JOANN CHONGSARITSINSUK

Synthesis of Small Molecule Modulators of the MEMO1 Protein-protein Interface

FACULTY MENTOR: Julie Pollock

POSTER #41

COURTNEY LABRECQUE, CASSIDY HILTON

Identification of Modulators of the MEMO1 Protein-protein Interface

FACULTY MENTOR: Julie Pollock

POSTER #42

ALEXIS HILLS

Resistance to Removal: the 1806 Migratory Evasion of Free African American Populations

FACULTY MENTOR: Samantha Seeley

POSTER #43

CHARLOTTE STONE

Rhetoric and Equity: A Study of Richmond and Restorative Justice through Food

FACULTY MENTOR: Mari Lee Mifsud

POSTER #44

LAUREN SCHEFFEY

Kenyan Settlement Schemes: Capturing the Data

FACULTY MENTORS: Sandra Joireman, Kimberley Browne

POSTER #45

MEG CARROLL

Kenyan Settlement Schemes: History and Use in Kenya

FACULTY MENTORS: Sandra Joireman, Kimberley Browne

POSTER #46

GRIFFIN WALSH

Kenyan Settlement Schemes: Using and Sharing the Data

FACULTY MENTORS: Sandra Joireman, Kimberley Browne

POSTER #47

BILAL HINDI, KATHERINE GILLENWATER, ALLISON CHOE

Effects of Lead Poisoning on Neural Cell Count, Cognitive Functioning and Behavioral Responses in Long-Evans Rats.

FACULTY MENTORS: Kelly Lambert, Molly Kent

POSTER #48

BILAL HINDI, PETER SANTORE

Feeding the Mind: The Effects of Probiotics and the Gut-Brain Axis on Immune and Bio-Behavioral Threats in Male Long-Evans.

FACULTY MENTORS: Kelly Lambert, Molly Kent

POSTER #49

LAUREN COSTELLO

Associations Between Children's Gender Atypical Behavior and Peer Relationships

FACULTY MENTOR: Karen Kochel

POSTER #50

TYLER ANDERSON

The Utility of Teacher Reports of Children's Psychological Symptoms

FACULTY MENTOR: Karen Kochel

POSTER #51

Poster Presentations

3:30-4:45 P.M. *continued*

JACK DRAK, NICK NATALE, ANNIE LAI

Behind the Mask: Neurobiological Investigations of the Raccoon (Procyon Lotor)

FACULTY MENTORS: Kelly Lambert, Molly Kent

POSTER #52

SAVANNAH ETZLER

The Southern Gothic in Virginia's Blue Ridge Mountains

FACULTY MENTOR: Samantha Seeley

POSTER #53

ABBY MUTHONI

Understanding Discrimination/Racism in the Makeup Industry

FACULTY MENTOR: Ladelle McWhorter

POSTER #54

THALIA VIRANDA, PASCALINE MUNZERO

How Do Sense of Autonomy and Rewards Affect Self-Regulation?

FACULTY MENTORS: Cindy Bukach, Laura Knouse

POSTER #55

SAMANTHA PUGLIESE, ANNA MARTSON, LILLIE CREDLE

Parental Stress Related Growth: Associations with Parenting and Child Behavior

FACULTY MENTOR: Lisa Jobe-Shields

POSTER #56

SUSIE SHEPARDSON

Associative Memory Study

FACULTY MENTOR: Jane Berry

POSTER #57

JACLYN OPIE, EMILY KAMINSKY, GWYNNA RYAN

Effects of Lexical Predictability and Syntactic Structure on Fixation Times During Reading

FACULTY MENTOR: Matthew Lowder

POSTER #58

REBECCA PASCH

Teaching People with Autism Spectrum Disorder to Drive: Description of a Simulator Method

FACULTY MENTOR: Laura Knouse

POSTER #59

STEPHANIE DESINOR, KATIE SCIANDRA, GABBY BOWEN

Neurobiological Influences in Early Development: Impact of Restricted Resources on Social, Emotional and Cognitive Responses in Male and Female Long-Evans Rats

FACULTY MENTORS: Kelly Lambert, Molly Kent

POSTER #60

JAROD COHEN, TRAVIS FOSTER, HAOWEI CUI

SETI@home: Searching for Extraterrestrial Life Through Crowd Computing.

FACULTY MENTOR: Amy Treonis

POSTER #62

MIROSLAVA MARTINEZ, JISU SONG , TAYLOR GRINDLE

From Hollywood to NASA: An Analysis of Extraterrestrial Encounter

FACULTY MENTOR: Amy Treonis

POSTER #63

**MIRANDA THOMPSON, THALIA VIRANDA, ROSS ABRASH,
NATALIE SZUMEL, VIDHI PATEL, LEAH MAIS**

Perception Versus Reality: Changes in Study Habits Across a Semester

FACULTY MENTOR: Laura Knouse

POSTER #64

ROSS ABRASH, MIRANDA THOMPSON, LEAH MAIS

Aging, Functionality and ADHD

FACULTY MENTOR: Laura Knouse

POSTER #65

VIDHI PATEL, NATALIE SZUMEL, LEAH MAIS

ADHD and Mindsets: the Impact of Implicit Theories

FACULTY MENTOR: Laura Knouse

POSTER #66

Poster Presentations

3:30-4:45 P.M. *continued*

**BETTY DUAN, CATERINA ERDAS, MAX WALLACH, GRACE AHN,
JENIFER YI, KESHAV JHA, MARCUS FREITAG**

Something Smells Fishy: Fish Mislabeling in Richmond

FACULTY MENTOR: Carrie Wu

POSTER #67

**ASHTON WILLIS, NADIA IQBAL, HALEY HOM, ANTONIA KEMPE,
ETHAN ROSS, STEFAN JENSS**

Something's Fishy

FACULTY MENTOR: Carrie Wu

POSTER #68

NATHANIEL GRIFFEE, BRADLEY FISCHER

French Emigres on Jersey

FACULTY MENTOR: Sydney Watts

POSTER #69

VI TRINH

SLI Documentation

Contested Spaces

FACULTY MENTOR: Peter Kaufman

POSTER #70



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
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