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
A TRADITION OF CELEBRATING OUR COMMUNITY OF LEARNERS

PHOTOGRAPHY FROM 2018 STUDENT SYMPOSIUM BY KIM LEE SCHMIDT
A TRADITION OF CELEBRATING OUR COMMUNITY OF LEARNERS

PHOTOGRAPHY FROM 2018 STUDENT SYMPOSIUM BY KIM LEE SCHMIDT
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,

Patrice Rankine, Professor of Classics
Dean, School of Arts and Sciences
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.
HARRETT MUSEUM OF ARTS | 1ST FLOOR
HARRETT 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.
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

RAEYLIN 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 SZEPESY
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-xCdxO 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

LILLIANA 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, Penetralia, 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 Schaubers

JULIAN SCOTT  
_Forgiveness and Blame: Finding Compatible Accounts_  
FACULTY MENTOR: Nancy Schaubers
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

34TH ANNUAL STUDENT SYMPOSIUM: CELEBRATING OUR COMMUNITY OF LEARNERS
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

SHUZHI 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 & Advertisment: 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
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
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**

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34TH ANNUAL STUDENT SYMPOSIUM: CELEBRATING OUR COMMUNITY OF LEARNERS
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 Enediyne
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 QB
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 CHOЕ
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 Bezie
POSTER #70
34TH ANNUAL STUDENT SYMPOSIUM: CELEBRATING OUR COMMUNITY OF LEARNERS

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 Sulforaphane 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-Chloroenals 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, RITWIKA 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, MADDO 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 Benzynes 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
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 MUNEZERO
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 Mislaveling 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
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.**
A TRADITION OF CELEBRATING OUR
COMMUNITY
OF LEARNERS

PHOTOGRAPHY FROM 2018 STUDENT SYMPOSIUM BY KIM LEE SCHMIDT

RICHMOND
School of Arts & Sciences
University of Richmond
261 Richmond Way
Richmond, VA 23173
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,

Patrice Rankine, Professor of Classics
Dean, School of Arts and Sciences
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.
HARNErrT MUSEUM OF ARTS | 1ST FLOOR
HARNErrTT 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*

_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

RAELYNN 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 SZEPESY  
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-xCdxO 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

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

SHUZHI 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 & Advertisment: 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
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
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
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
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 Enediyne*
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 Qβ*

**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 McLACHLIN, 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
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 Sulforaphane 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.  

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-Chloroenals 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, RITWIKA 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 Benzynes 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  
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 MUNEZERO
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 GRINDEL
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
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.
A TRADITION OF CELEBRATING OUR COMMUNITY OF LEARNERS

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