



PAIDEIA

CHRISTOPHER NEWPORT UNIVERSITY

—2023—

**21st Annual
Undergraduate and Graduate
Student Research Conference
Christopher Newport University**

Friday, April 14, 2023



OFFICE OF UNDERGRADUATE
RESEARCH AND CREATIVE ACTIVITY



PAIDEIA

(paɪ'deɪə)

The classical Greek concept of liberal learning. Through paideia, the culture and the youth were "molded" to the ideal of kalos kagathos, "the beautiful and good." Classical scholar Samuel Henry Butcher wrote in 1904 that paideia "in its full sense involves the union of intellectual and moral qualities. It is on the one hand mental illumination, an enlarged outlook on life; but it also implies a refinement and delicacy of feeling, a deepening of the sympathetic emotions, a scorn of what is self-seeking, ignoble, dishonourable—a scorn bred of loving familiarity with poets and philosophers, with all that is fortifying in thought or elevating in imagination."



Sponsored by the
OFFICE OF UNDERGRADUATE RESEARCH
AND CREATIVE ACTIVITY (OURCA)

Dr. David A. Salomon, director
Dr. Michaela D. E. Meyer, academic director
Michaele Baux, administrative assistant

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Dr. Laura Godwin
Dr. Emre Kirac
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Dr. Brian McInnis
Dr. Steve Strehle
Prof. Mary Sellen
Dr. David A. Salomon
Dr. Michaela Meyer

Thanks to Provost Quentin Kidd; Associate Provost for Research and Dean of Graduate Studies Lynn Lambert; the Office of Catering; and the Office of Scheduling, Events and Conferences.

Special thanks to Michaele Baux, Mary Sellen, Courtney Michel, Olivia Brubaker and the OURCA Ambassadors.

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SCHEDULE

REGISTRATION: 11 A.M.-2 P.M.

Tribble Library Rotunda

All attendees: please present your CNU ID to register to win door prizes
Presenters will receive their conference badge and lanyard

**PHI BETA KAPPA SPONSORED AWARDS
AND RECEPTION: Noon-2 P.M.**

Library Media Collection Room

**ART SENIOR THESIS EXHIBITION, Prof. Christi Harris
April 14-May 14**

Opening reception: April 14 at 5 p.m.

**Works on display in Mary M. Torggler Fine Arts Center, William Grace
Gallery (first floor), Academic Gallery and North galleries (second floor)**

Cade Arrowood, digital art
Kaila Gibbs, digital and mixed media
William Hayden, digital photography
Sierra Ledford, sculpture
Michael Moseley, digital art and animation
Nikole Schlevensky, digital photography installation
Vance Solseth, digital photography
Lauren Sowder, printmaking and watercolor
Olivia Stewart, oil painting

EXHIBITION OPENING: "NURTURING THE SOUL: PIETY AND PLAY"
Advanced Museum Studies, Dr. David Salomon
Tribble Library second floor, outside Media Library

Mace Browning (project manager)
Cassie Sumpolec (project manager)

Kathryn Allen
David Amadeo
Alexa Bergeron
Emma Brook
Madeline Chevalier
Sabrina Collins

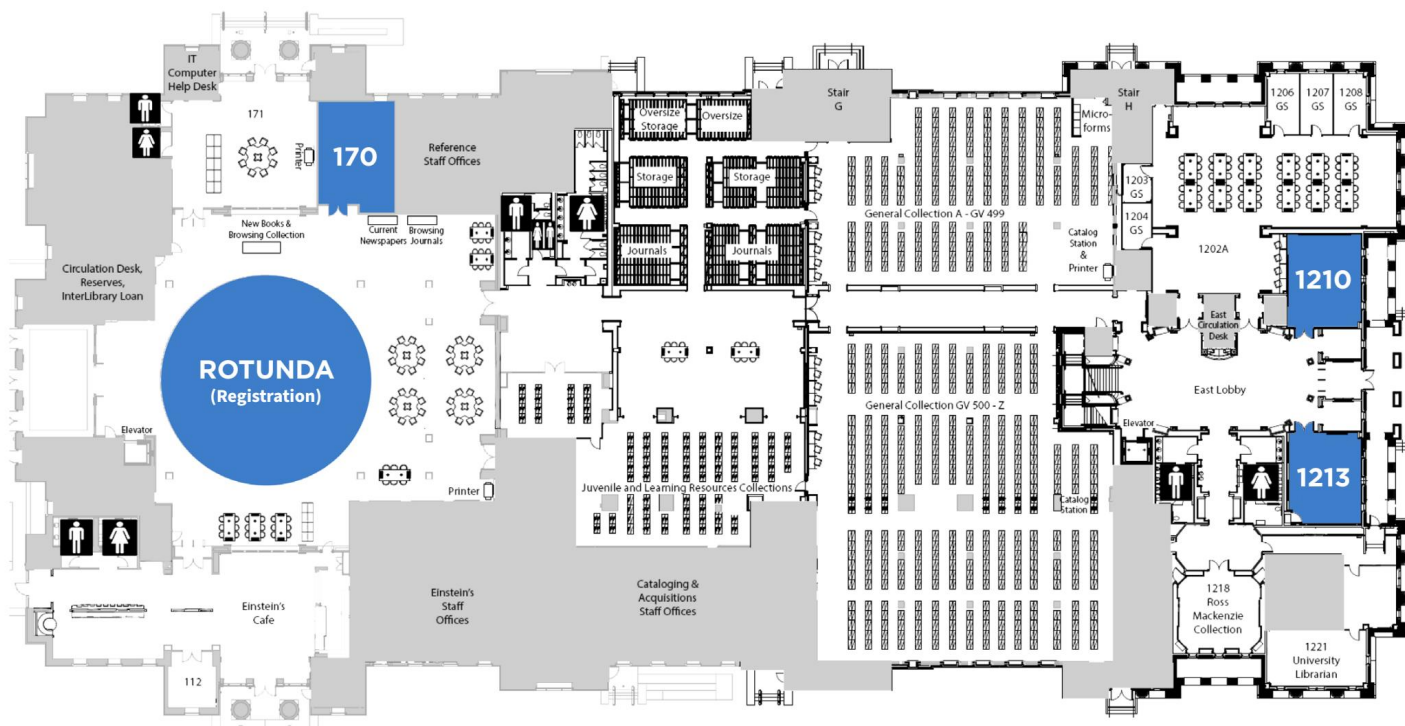
Mitchell Flores-Kaplan
Mia Larochelle
Campbell Mitchell
Alexander Reid
Audrey Riley
Phoebe Salomon

Nicole Shostek
Allison Silverman
Juliana Torrice
Carmela Wark
Ellen Winslow

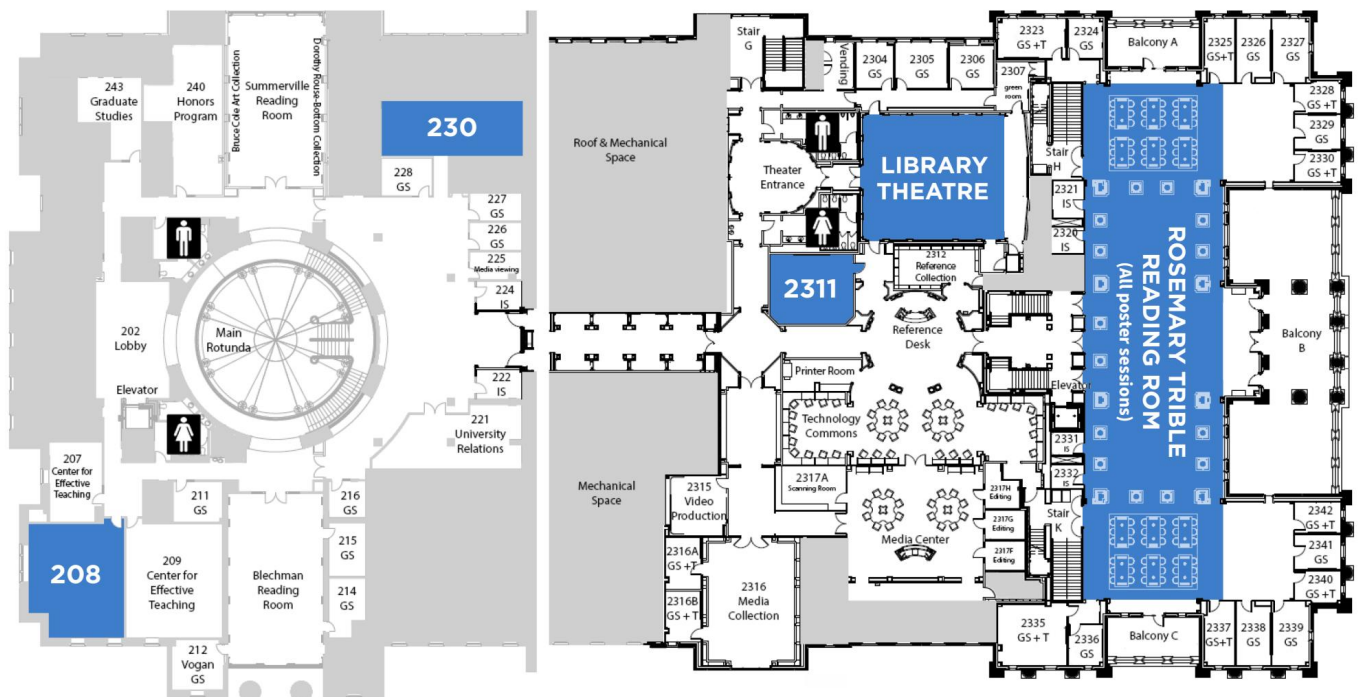


PAUL AND ROSEMARY TRIBLE LIBRARY

Additional sessions in the David Student Union, Freeman Center, Luter Hall and Mary M. Torggler Fine Arts Center.



FIRST FLOOR



SECOND FLOOR

SESSION 1 NOON-12:50 P.M.

A

CHEMISTRY

Dr. Joshua Patterson, faculty sponsor and moderator

Library 208

Madison Lester: “Quantification of the Bromide-Induced Shift of Hydrogen Sulfate Interfacial Affinity”

Abigail Rose: “Model Synthesis of a Key Structure of the Natural Product Pseudorubriflordilactone B”

Nicklaus Fleming: “Effects of resin composition on thermal properties of Intumescent Coatings”

B

AMERICAN STUDIES: ALEXANDER HAMILTON

Dr. Anna Teekell, moderator

Library 1210

Keelyn Graves: “Hamilton’s Ghost” (Dr. Frank Garmon)

Michael Sparks: “Wealth and Inequality as Determinants of Shays’ Rebellion” (Dr. Frank Garmon)

Sean Hartigan: “Who Tells Your Story: Historical Accuracy and Characterization in Hamilton: An American Musical” (Dr. Frank Garmon)

C

CENTER FOR SUSTAINABILITY IN EDUCATION

Freeman 101

Audrey White: “Understanding Community-Based Social Marketing and the Process of Social Change through Sustainability” (Dr. Linda Manning, moderator)

Allison Burbach: “Composting Education, Engagement and Infrastructure at CNU” (Dr. Benjamin Redekop)

Rayan Alzarqa: “Sustainable Class Analysis System” (Dr. Mohammad Almalag)

SESSION 1: NOON-12:50 P.M.

D

COMMUNICATION STUDIES

Dr. Michaela Meyer, faculty sponsor and moderator

Library Theatre

Elijah Williams: “The Rise and Downfall of Black-Centric Networks: Are They Necessary? Is it Still Needed?”

Nicholas Delaney: “Greta Gerwig as a Film Auteur”

Chloe Reid: “Alabama Rush TikTok: A Feminist Critique of Kylan Darnell”

E

PSYCHOLOGY

Dr. Jeffrey Gibbons, faculty sponsor and moderator

Library 170

Zach Alam, Gabriela Rocha: “Observing the FAB Across Positive and Negative Alcohol versus Non-Alcohol Events Online”

Aimee Buchanan, Krystal Langhorne: “High Conservatism and Political Affiliation Predict a Reversal of the Fading Affect Bias”

Matthew Traversa: “Abnormal Death Beliefs in Young Adults”

F

SOCIOLOGY, SOCIAL WORK AND ANTHROPOLOGY

Dr. Andria Timmer, faculty sponsor and moderator

Freeman 102

Chloe Younce: “Invisible Problems: Establishing a Needs-Based Food Pantry on a College Campus”

Ayla Zwak: “Generational Trauma and Healing in Asian-American Families”

SESSION 1: NOON-12:50 P.M.

G

ENGLISH

Dr. Kara Keeling, faculty sponsor and moderator

Library 1213

Brooke Beach: “Young Adult Literature and Challenged Ethnic Identities”

Jonathan Goodrich: “Mythic Intertextuality in Adolescent Literature”

Miles Dvorak: “Code Name Verity and the Unreliable Narrator”

H

HISTORY

Dr. Brian Puaca, faculty sponsor and moderator

Torggler 205

Carter Gleason: “De Gaulle of it All: Observing how French Memory of World War II Changed Over Time Through Film”

Demetria Jones: “Soviet Memory in Film Since World War II”

Chloe Sullivan: “German Victimization in the Face of Defeat: Using Film to Analyze German Postwar Memory”

I

PERFORMANCE

Torggler 102 Auditorium

Amaya Rose: “Boat in a Tree in the Bayou” (music) (Dr. Maxwell Tfirm)

Mary Goodrich: “Movement” (film) (Dr. James Anklam)

Reese Tunstall: “Programmatic Features and Extended Techniques in Ryō Noda’s ‘Mai’” (Dr. Chelsey Hamm, moderator)

SESSION 2: 1-1:50 P.M.

A

PHILOSOPHY AND RELIGION

Dr. John Thompson, faculty sponsor and moderator

Library 208

Colin Bunn: “The Philosopher’s Horse is Loose in the Hospital”

Annika Huffman: “Pachamama and the Climate Crisis”

Sarah Chapman: “Pele: Goddess of Volcanoes”

Sydney Grogan: “Peyote: The Sacrament and Spirit of The Native American Church”

B

HISTORY

Freeman 101

Paige Cole: “Women’s Rights in the context of The French Revolution”
(Dr. Sara Black)

Samir Godambe: “The Evolution of Liberalism in Russia Throughout The Late and Imperial Soviet Periods” (Dr. Deirdre Harshman, faculty sponsor and moderator)

Olivia Brubaker: “Madam CJ Walker and a New Definition of African American Beauty” (Dr. Laura Puaca)

C

PHYSICS, COMPUTER SCIENCE AND ENGINEERING

Dr. David Conner, moderator

Library Theatre

Nathan Ormsby, Hunter Freilds: “Analysis and Simulation of Chaotic Systems and Numerical Approximation of Lyapunov Exponents”
(Dr. Ryan Fisher)

Grace Johns: “Analysis of the Effectiveness of TrigANN for Gravitational Wave Detections” (Dr. Ryan Fisher)

SESSION 2: 1-1:50 P.M.

D

EXPLORING CULTURE

Library 170

Holly Banta: “Multiculturalism in Disney Pixar’s Coco”
(Dr. Kara Keeling)

Nathan Simmers: “Barriers to Exploring Cultures in the Modern Day”
(Dr. Siewe Seuchle, faculty sponsor and moderator)

Joshua Grimes: “Evolution of Christopher Newport: Continuity
Amidst Change” (Dr. Phillip Hamilton)

E

COMMUNICATION STUDIES

Freeman 102

Peri Costic: “K-Pop Fandom Boycotts as Commodity Activism”
(Dr. Danielle Stern)

Hayley Mayette: “The Effect of Religion and Age on Satisfaction
and Intent to Stay Married” (Dr. Alice Veksler, moderator)

Anna Osenkowsky, Margaret Burch: “We Expected to be Connected
24/7”: Investigating Video Call Expectations in Long-Distance
Romantic Relationships.(Dr. David Roaché)

F

CHEMISTRY

*Dr. Joshua Patterson, faculty sponsor
and moderator*

DSU Jefferson Room

Kaia Pennington: “Investigating Ionic Contamination and Thermal
Behavior of Intumescent Coatings”

Andrew Wujick: “Identification of Phenolic Compounds in Pilsner
Malts Under Different Growth Conditions in Craft Brewing”

Raymond Carothers: “Treating Alzheimer’s with Trees: Selective
Reduction of Torreyunlignan Intermediates”

SESSION 2: 1-1:50 P.M.

G

HONORS PROGRAM: EMERGING ADULTS

Dr. Michaela Meyer, faculty sponsor and moderator

Library 1213

Ethan Belote, Graham Paterson: “Religion and Emerging Adulthood Video Essay”

Jake Dolphin, Simren John: “Emerging Adults New Segment”

Emma Scott: “How Instagram Affects Emerging Adults Mental Health”

H

ENGLISH

Dr. Margarita Marinova, faculty sponsor and moderator

DSU Madison Room

Alexandra Fiul: “The Railroad and the Nightingale: Modernity and Nature in Chekhov’s ‘Agafya’”

Makenna Sowards: “Deconstructing Misogynistic Characterization in ‘The Darling’”

Sarah Poole: “Emigration and Exile: Transcending Borders in Eastern European Women’s Literature”

I

MUSIC

Torggler 102 Auditorium

Sophanit Yohannes: “Discovering Musical Meaning: A Phenomenological Study on Creative Music Listening”
(Dr. Kimberly Ankney)

Michael Monette: “The Art of Interpretation: Translating Emotions Into Sound” (Dr. Benjamin Corbin, moderator)

Kayleigh Sprouse: “The Physiology of the Menstrual Cycle and How it Affects Vocal Production” (Dr. Chelsey Hamm)

SESSION 2: 1-1:50 P.M.

J

PERFORMANCE

*Prof. Ann Mazzocca Bellecci,
faculty sponsor and moderator*

Tribble Library Rotunda

Phoebe Salomon (choreographer), Molly Burke, Rachel Weeks, Caila Light, Makenna Mitchell, Lizzy Maisel: “See Me: A Dance Exploring the Invisible Nature of Mental Illness” (live dance)

Caila Light (choreographer), María Jones, Alexis Comer, Hannah Cecil, leasa Custer, Jamie LaFever, Maddie Santomauro, Makenna Mitchell, Mo Condit-Fox, Tim Johnson: “988” (live dance)

Note: If you or someone you know is struggling or in crisis, help is available. Call or text 988 to reach the Suicide & Crisis Lifeline.



SESSION 3: 2-2:50 P.M.

A

ART HISTORY

Dr. Rebecca Wolff, faculty sponsor and moderator

**Torggler 102
Auditorium**

Sara Miller: “The Eternal City in Ruins: Maarten van Heemskerck and the Revival of the Ancient”

POSTER SESSION A: 2-2:50 P.M.

All posters in the Rosemary Tribble Reading Room. Numbers indicate easel numbers.

1	Summer Duba: “Diversity in skeletal anatomy associated with elongate body shapes in eelpouts, pricklebacks, wolffish and allied fishes” (Dr. David Collar)
2	Kyla Ganey: “K-12 Teacher Perspectives Entering the 2022-2023 School Year” (Dr. Timothy Pressley)
3	Clara Salazar: “Genetic modification trials for <i>Ideonella sakaiensis</i> through conjugation” (Dr. Todd Gruber)
4	Abigail Asuncion, Leslie Bond: “Finding our Center in the Community: The Tidewater Community Writing Center” (Dr. Brooke Covington)
5	Tyler Whitman: “Cross-Sectional Analysis: The Relationship Between Market Beta & Price to Earnings Ratio” (Prof. Phillip Bazzani)
6	Jamie Kelso: “The Work of Thrift Store Resellers” (Dr. Andria Timmer)
7	Katelyn Sloan: “Audience Interpretations of Black Female Rap Music” (Dr. Andria Timmer)
8	Kristina Schwarzkopf, Zach McFatridge, Kelsey Wink, Abigail Wethen, Carl Valdivielso, Elizabeth Via: “Depression and Emotion Recognition” (Dr. Jeffrey Niehaus)
9	Jonathan Russo: “The Importance of Woody Debris in Carbon Budgets of Mid-Atlantic Peatlands” (Dr. Robert Atkinson)
10	Allison Burbach: “Root respiration in drained and undrained Atlantic White Cedar swamps: Improving carbon budget calculations for understanding carbon sequestration in natural ecosystems” (Dr. Robert Atkinson)
11	Katherine Darroch, Audrey Lihos: “LIGO Outreach at the Virginia Living Museum” (Dr. Ryan Fisher)
12	Caroline Dillard: “Bulk density of AWC logs from the recent and distant past” (Dr. Robert Atkinson)

POSTER SESSION A: 2-2:50 P.M.

All posters in the Rosemary Tribble Reading Room. Numbers indicate easel numbers.

13	Thomas Bolton: “Study on the Effect of Mach Angle on Delta-wing Angle efficiency through simulations” (Prof. Leon Cole)
14	Erin McCarthy: “Empathy Levels in Dark Triad” (Dr. Gayle Dow)
15	Katherine Rambo, Sophia Powell: “Coping skills and mental health outcomes in college students” (Dr. Susan Antaramian)
16	Krystal Langhorne: “The Relations of Emotional Intelligence and Problem Solving Abilities to Fading Affect Bias” (Dr. Jeffery Gibbons)
17	Claire Potchatek: “Art Therapy & Student Stress” (Dr. Christopher Loy)
18	Hannah Pell, Dawne Virts, Zamantha Balado, Ananya Kanal: “Effect of Learning Task on the Processing of Own-and Other-Race Faces” (Dr. Leslie Rollins)
19	Eden Baroody: “Can a 3-week Study Abroad Course Develop Student Leadership Competencies?” (Dr. Jessica Hench)
20	Rachel Childs: “Perceptions of Crime and Neighborhood Issues” (Dr. Steven Keener)
21	Rachel Smith, Hannah Brett, Carley Strausser: “An exploration of college students’ roommate conflict during university COVID-19 mitigation efforts” (Dr. David Roaché)
22	Sarah Hatcher: “Pandemic & Incarceration: An Analysis of: Social Media Coverage of Covid-19 Spread in Carceral Facilities and Actual Prison Releases in Prisons” (Dr. Steven Keener)
23	Alexis Denson: “Reforming Solitary Confinement” (Dr. Steven Keener)
24	David Grace, Sierra Boyce, Connor Auby: “The Impact of Changes in the Gut on Brain Aging and Health” (Dr. Anna Salazar)
25	Gabriela Rocha: “Reimagining the Carceral System: A Focus on Sentencing Reform” (Dr. Steven Keener)

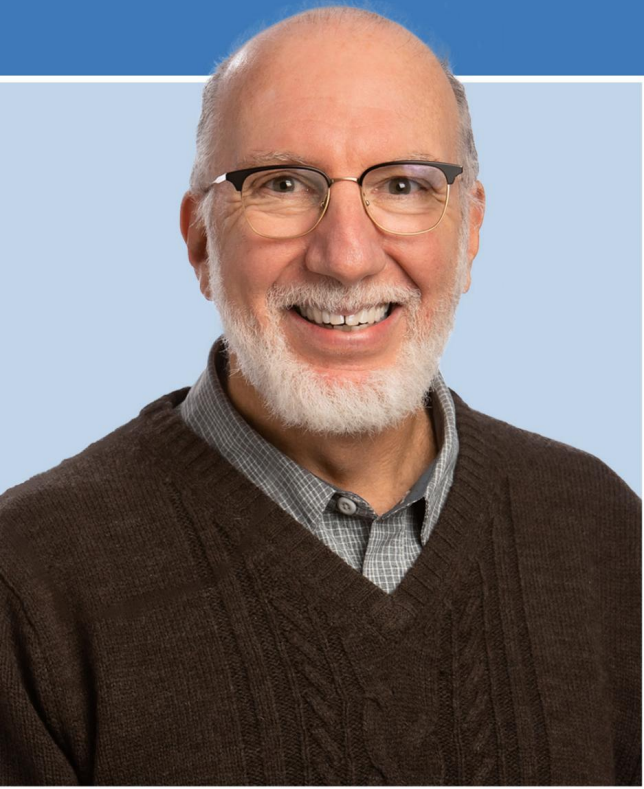
POSTER SESSION A: 2-2:50 P.M.

All posters in the Rosemary Tribble Reading Room. Numbers indicate easel numbers.

26	Hannah Likens, Carly Smittle, Callie Davidson, Mitch Pettus, Gabby Pascoe: "Vindication of the Rights of Students" (Dr. Michael Mulryan)
27	Jacob Buchanan: "Analysis of Chladni Figures" (Dr. David Heddle)
28	Trevor Ramer: "An Exploration of Machiavellianism and Attachment Security among College Students" (Dr. Earl Riggins)
29	Daniel Calvano, Jordan Sanchez: "Optimization of Wisteria floribunda agglutinin and parvalbumin staining to visualize perineuronal nets in C57BL6 mice brains" (Dr. Jessica Burket)
30	Kaiya Keckler: "The Correlation Between Language Fluency and Vocal Technique" (Dr. Chelsey Hamm)
31	McKenzie Hurley: "Revolutionary Russia and the Birthplace of Modern Terrorism: Ideologies and Motivations" (Dr. Deirdre Harshman)
32	Jaidan Brass: "Interpreting Growth Rates of Atlantic White Cedar: Using Tree Ring Width of Recently Live Trees and Buried AWC Logs to Extend Hydrologic Regime Classification Back in Time" (Dr. Robert Atkinson)
33	Kathryn Damato: "Covid-19 State Lockdown Policy and Inflation" (Dr. Yixiao Jiang)
34	Emma Charlton: "New Glitch Classes for Gravity Spy" (Dr. Marissa Walker)
35	Aidan Brady: "Uncovering Autism: Characterizing the BALB/c Mouse as a Model through Gene Expression Analysis" (Dr. Jessica Burket)
36	Jenna McElhannon, Elizabeth Fleury: "Resentment and Leadership in Contemporary Social Movements" (Prof. Nathan Harter)
37	Jenna Woodburn: "Narcissism, Machiavellianism and Social Dominance Orientation: The Preference for Inequality and Breeding of Prejudice" (Dr. Gayle Dow)

PAIDEIA 2023

KEYNOTE ADDRESS



featuring

**DR. NIGEL
ROTHFELS**

**Animal Historian
University of Wisconsin-Milwaukee**

**“Elephant Trails:
A Personal Journey”**

APRIL 14, 2023 AT 3 P.M.
Mary M. Torggler Fine Arts Center
Auditorium

Reception and book signing
to follow in the Torggler Lobby

FREE AND OPEN TO THE PUBLIC



SESSION 4: 4-4:50 P.M.

A

CHEMISTRY

*Dr. Joshua Patterson, faculty sponsor
and moderator*

Library 208

Rebecca Moore: “Ionic Strength and ABV of Beer through Extraction and Salting Out of Ethanol- CHEM 492”

Ryanne Welsh: “The Effect of Local Environments on the ΔG of Unfolding of Cytochrome C”

B

AMERICAN STUDIES

Dr. Frank Garmon, faculty sponsor and moderator

Luter 137

Hope Hunter: “Hamiltonian Hubris”

Allison Landergan: “An Analysis of Alexander Hamilton’s Relationships and their Depiction in the Hamilton Musical”

Kiley McLeroy: “Lyricism & Historical Accuracy: The Popularization of Hamilton’s Mischaracterized Mythology”

C

CENTER FOR EDUCATION RESEARCH AND POLICY, AND ANTHROPOLOGY

Dr. Brooke Covington, moderator

Library 1213

Madison Payne, Holly Banta: “Teachers, Parents, Government—Who Controls the Discourse of CRT? An Analysis of EdWeek Articles on Divisive Topics in Education” (Dr. Linda Waldron and Dr. Jane Rochmes)

Ieasa Custer: “Prioritizing Long Distance Hiking: The Appalachian Trail as a Form of Self-Care” (Dr. Andria Timmer)

SESSION 4: 4-4:50 P.M.

D

THE CREATIVE ARTS AND RELIGION

Library Theatre

Sarah Poole: “From Cast to Crew: Diversity, Equity and Inclusion for the College Stage Manager” (Dr. Tanya Sweet, faculty sponsor and moderator)

Winner of the Undergraduate Diversity, Equity and Inclusion Grant

William Kessler: “Under My Roof: A Composer’s Ambition for Catholic Psalmody” (Dr. Seung-Hye Kim)

Ethan Losee, Michael Boyd, Callie Davidson: “The Societal Interactions and Reactions Between Community and Religion in Contemporary America, as Influenced by Mass Communication” (Dr. Diana Obeid)

E

TECHNOLOGY

Library 170

Blake Boggess, Mikaele Gessesse: “Tech’s Role in Culture” (Dr. Siewe Seuchle, moderator)

Carter Gleason: “Depth to Robots: Can Computer-Generated Images be Defined as Art?” (Dr. Matthew Homan)

Olivia Brubaker: “William Blake’s Illuminated Printing: So What?” (Dr. David Salomon)

F

RESEARCH MEDLEY

Torggler 204

Bianca Londres: “At the Intersection of Leadership Studies & Systems Thinking: Importing Ideas from Michael Polanyi & Jacques Derrida” (Dr. Nathan Harter)

Michael Sparks: “Do Clinic-Level Guaranteed Cash Incentives Increase County-Level Vaccination? Evidence from North Carolina” (Dr. Rik Chakraborti, moderator)

Kiya Opstrup: “Corridors of Liminality: Eco-poverty and Climate Change Communication in Kingsolver’s Flight Behavior” (Dr. Andrew Rose)

SESSION 4: 4-4:50 P.M.

PERFORMANCE

G

*Dr. Maxwell Tfirm, faculty sponsor
and moderator*

Torggler 102 Auditorium

Isabella Temperville: “Potentia/Sui for Viola and Interactive Electronics” (live music)

Margaret “Aiden” Benton: “Live Coding Musical Performance” (live music)

PSYCHOLOGY

H

Dr. Gayle Dow, moderator

Torggler 205

Shannon O’Keefe: “Investigating the Relationships Between Introversion-Extroversion, Attachment Style, Love Languages, and Experiences of Parenting Style in College Students” (Dr. Michelle Lange)

Austin Parker: “Injury and the mental health of college athletes: Investigating the relationship of presence and duration of injury with symptoms of anxiety and depression” (Dr. Michelle Lange)



SESSION 5: 5-5:50 P.M.

A

PERFORMANCE

Library Rotunda

William Kessler: “Original Composition—The Leviathan” (music)
(Dr. Seung-Hye Kim, moderator)

Jonathan Martin: “‘Soliloquy’ by John Cage—A War-Like Machine”
(live music) (Dr. Benjamin Corbin)



POSTER SESSION B: 5-5:50 P.M.

All posters in the Rosemary Tribble Reading Room. Numbers indicate easel numbers.

1	Zoe Alhanati, Mark Carroll, Laura James: “Structural Determination of a Mutant BA0150” (Dr. Kathryn Cole)
2	Emily Idelson: “Predictive Influences of Family Dynamics on Mental Health: A New Theoretical Model for Therapy in Youth and Adolescence” (Dr. Thomas Berry)
3	Ella White: “The Fading Affect Bias Examined in Relation to Political and Non-Political Events in the 2020 Presidential Election” (Dr. Jeffery Gibbons)
4	Sheena Kron, Jaiden Smith: “The Fading Affect Bias Across Marijuana and Non-Marijuana Events” (Dr. Jeffery Gibbons)
5	Emily Pappalardo: “Video Game Addiction and Unpleasant Emotions Predict High FAB” (Dr. Jeffery Gibbons)
6	Lauren Walters, Joshua Ring, Shannon Green, Katherine Davis, Luna Safar, Emily Allen, Emma Sebastian, Maria Plantz: “Computerized Assessment of Graphophonological-Semantic Flexibility” (Dr. Kelly Cartwright)
7	Marina Organt: “Community-Engaged Programming: Applying Lessons Learned from the VLM Green Teens Program” (Dr. Brooke Covington)
8	Tatianna Benjamin: “Ontological Visualization and Ranking System” (Dr. Samuel Henry)
9	Morgan Andrews, Katherine Paulikonis: “The Impact of Personality and Automatic Thoughts on Coping Skills in Emerging Adulthood: A Correlational Study” (Dr. Susan Antaramian)
10	Emma Charlton: “Predicting and Verifying Black-Body Spectrum” (Dr. David Gore)

POSTER SESSION B: 5-5:50 P.M.

All posters in the Rosemary Tribble Reading Room. Numbers indicate easel numbers.

11	Colleen Neff, Lia Corning, Reighan Pack: “Evaluating CNS Impairments After Exposure to Ionizing Radiation and Sleep Fragmentation in Female Rats” (Dr. Jessica Burket)
12	Gwenyth Farley: “Birth Order and Attachment Security as Predictors of Social Anxiety in a College-age Sample” (Dr. Earl Riggins)
13	Samantha Le, CeOnna Battle, Latrell (Donovan) Fomby, Carlos Mendoza: “The Process of Aging: The Overexpression of Snakeskin in the Gut-Brain Axis” (Dr. Anna Salazar)
14	Trevor Ramer: “The Role of Biological Sex, Relationship Status, and Adult Attachment Styles in Features of Histrionic Personality Disorder” (Dr. Earl Riggins)
15	Trevor Ramer: “Assessing the Influence of Self-Esteem and Adult Attachment Styles in BDD Symptoms and Severity in a Non-Clinical Sample” (Dr. Earl Riggins)
16	Jacob Buchanan: “Developing and Testing the Upgraded PyGRB Workflow” (Dr. Ryan Fisher)
17	Keelin Dvorak: “U.S. Prison Reform” (Dr. Steven Keener)
18	Sevrin Vandevender, James Wright: “Online Replication Examining the Relation of the FAB to Problem Solving Beliefs across Problem Solving and Non-Problem Solving Events” (Dr. Jeffery Gibbons)
19	Jordan Strickland, Kiana Lawson: “Fecundity of Mummichogs in Natural Marshes and Living Shorelines of Virginia” (Dr. Jessica Thompson)
20	Jared Wal: “Using Machine Learning to Enhance the Way We Answer Biomedical Questions” (Dr. Samuel Henry)

POSTER SESSION B: 5-5:50 P.M.

All posters in the Rosemary Tribble Reading Room. Numbers indicate easel numbers.

21	Megan Berotti, Samantha Lomanno: “The Role Estrogen and Stress Play in Spatial Learning and Memory in Female Rats Tested via the Open-Field Tower Maze Task” (Dr. Olga Lipatova)
22	Rafael Diaz-Cruz: “Improving Biomedical Question Answering with EMBER: A Snippet Extraction and Factoid Answering Approach” (Dr. Samuel Henry)
23	Kelsey Shearon: “Using Knowledge from DailyMed to Improve Clinical Relationship Extraction” (Dr. Samuel Henry)
24	John Tucker, Oliver Kenol: “How Source and Priming Impact the Recognition and Believability of Media Headlines” (Dr. Jeffery Gibbons)
25	Nana Ankrah: “BioASQ” (Dr. Samuel Henry)
26	Lillian Nelson, Bandhavi Surisetty, Arjun Nekkanti, Aarya Sapre, Micaela Flores-Vaccari, Kailynne Landry, Kaitlyn Tomlin, Luke Asby, Megan Bowers, Grace Thome, Emma Cumashot, Johana Bonilla, Lillian Williams: “Testing social preference in zebrafish (<i>Danio rerio</i>) using the open-tank free-swim task (OTFST)” (Dr. Andrew Velkey)
27	Camryn Munroe: “The Use of Volunteers and Social Media in Disaster Response: A Survey Study” (Dr. Emre Kirac)
28	Jonathan Kaufman: “The Effect of Homomorphic Encryption on Voters’ Perceptions of Trust in Election Systems” (Dr. Michael Lapke)
29	Rachel Chenoweth: “The Acute Effects of Celsius® Fitness Drink on Cardiorespiratory Parameters During Incremental Treadmill Running – A Pilot Study” (Dr. Zidong Li)
30	Madelyn Steimer, Allison Burbach: “Public science on climate change: A test of data integrity of authentic research with 9th graders” (Dr. Robert Atkinson)

POSTER SESSION B: 5-5:50 P.M.

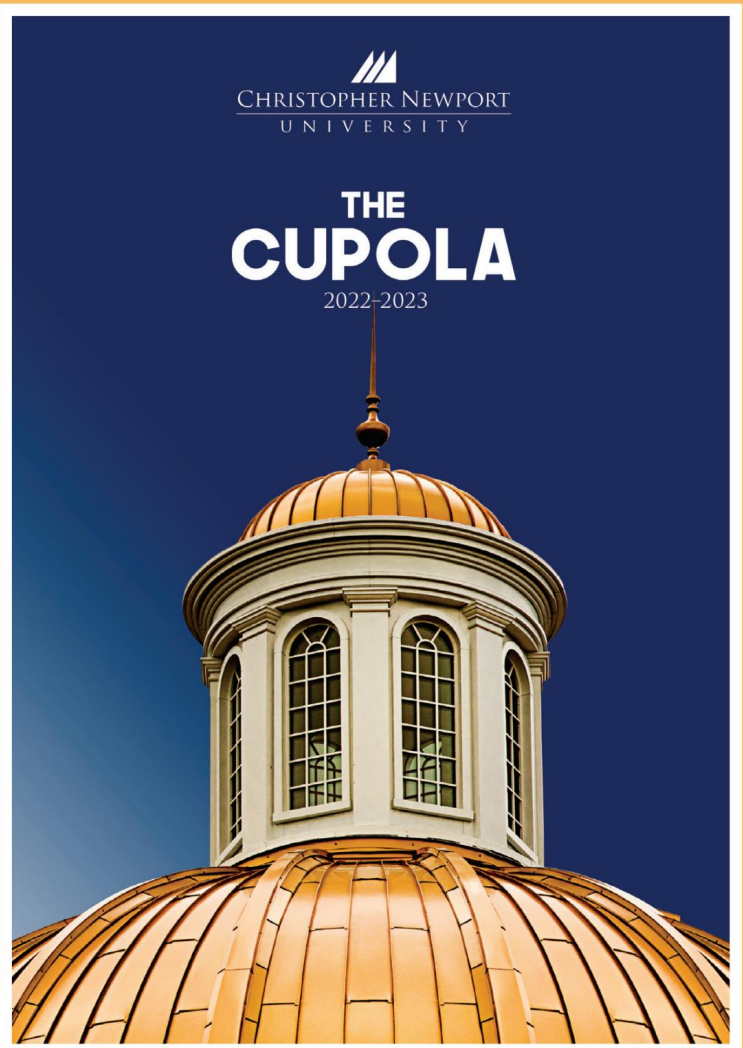
All posters in the Rosemary Tribble Reading Room. Numbers indicate easel numbers.

31	Jameson Prack: “The Dark Empath: Study of the Correlation Between Empathy and the Dark Triad” (Dr. Gayle Dow)
32	Lindsay Rettew: “Examining the Relationships of an Everyday Sadist” (Dr. Gayle Dow)
33	Brenna McManus, Makayla Snyder, Lauren Chadwick, Aki Gibbons: “Does Poor Sleep and High Levels of Anxiety Combine in Order to Predict Acts of Courage” (Dr. Jeffery Gibbons)
34	Sarah Anstice, Brice Stolz, David Lembersky: “Subcloning GFP and BA0150 into pENTR for Gene-Expression Studies” (Dr. Denise Tombolato-Terzic)



BECOME A PUBLISHED SCHOLAR!

Christopher Newport University's
Undergraduate Research Journal



To be eligible, undergraduates must submit an electronic version of their paper or poster following the submission guidelines. Papers and posters presented at Paideia are especially encouraged.

**Published authors receive
a \$100 award.**

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