



Undergraduate Research Festival Program Information

April 22, 2022
Times & Locations Included

Milton Atrium
Life Sciences Complex

Presentations

Session A – 10:00-11:00 a.m.

1. LSC 243

- Cheyene Muenzel (CHE) - *Synthesis and Properties of pH-Responsive Hydrogels for Wound Dressings*
- Emily Krueger (CHE) - *A Non-Destructive DNA Collection Technique Using Elastin-Like Polypeptide Hydrogels to Lift Fingerprints*
- Charisma Leach (CSD) - *Behavioral Engagement and Task Performance in Persons with Aphasia*
- Ally Mizzone (CSD) - *Procedural Learning Skills in School-Age Children who Stutter*

2. LSC 106

- Daniel Paradiso (PHY) - *Prototyping and Data Collection with the SciMAD Cosmic Ray Detector*
- Jakub Kochanowski (PHY) - *Biofilm Adaptation and Stiffness Matching on Soft Substrates*
- Ashley Clemens (WSRC) - *Why Does the Sad Horse Make Me Laugh? Bojack Horseman and The Changing Rhetoric of Sitcoms*
- Jazmine Richardson (AAS) - *Systematic Medical Mapping Study on the Field of Health Disparities*

3. LSC 217

- Cameron Turboff (SPA) - *The Impact of the Art and the Artist on Don Quijote (a film on the process of finding and analyzing archives from the Harold Jones Collection of Salvador Dali and Joseph Forêt)*
- George Hashemi (WSRC) - *Does Free Will Lie at the Bottom of the Bottle?*
- Fjolla Arifi (WSRC) - *You Cannot Have Feminism and Islam: Translation and Gender in Albanian Interpretations of the Qu'ran*

4. LSC 283

- Meejan Patel (LLL) - *Analysis of Political Cartoons by Bruce Russell*

- Casey Tissue (LLL) – *Video: Surrealism, the Spanish Civil War, and the Nature of Time*
- Adriana Crump (PSY) - *Race, Emotion Regulation and Functional Outcomes in College Students with and without ADHD*

Session B – 12:30-1:30 p.m.

1. LSC 243

- Brianna Cofield (AAS) - *James McCune Smith: Black Intellectual Reform of the 19th Century*
- Julia O’Leary (AAS) - *What is the Price of a Life? Exploring Insulin Inaccessibility as Costs Skyrocket*
- Erica Bliss (CSD) - *Speech Motor Control in Children Who Do and Do Not Stutter*
- Amber Vandepoele (FSC) - *Maximizing the Value of Evidence Through the Phylogenetic Differential Separation of Environmental Samples*

Session C – 2:00-3:00 p.m.

1. LSC 243

- Bridget Essing (FSC) - *Quantification of Secondary Transfer of Touch DNA*
- Nancy Cham (FSC) - *Improving extraction and quantitation methods of mitragynine in urine samples*
- Miguel F. Guzman and Christopher J. Lynch (BIO) – *Adaptive Recombinant Nanoworms from Genetically Encodable Star Amphiphiles*
- Meris S. Rosenberg and Viktoria Jakubikova (BIO) - *NAD Kinase - Biochemical Characterizations in Human Tissue and Sea Urchin Eggs (*L. variegatus*) - New Findings Regarding Nucleotide Triphosphates*

2. LSC 106

- Erin McCarthy (PHY) - *No Large-Scale Demixing Due to Differences in Diffusivity at High Densities*
- Chance Baggett (PHY) - *Simulating Gamma Flux Through Lead in Geant4*

- Abigail Greenfield (AAS) - *Slavery Through a New Lens: Chain Gangs in American Photography*
- Yohann Britto (LLL) - *Comparing Earl Browder and Bruce Russell Archives*
- Kate Ryan (CHE) - *Expression, Purification, and Fluorescent Tagging of hGDF15 for In Vivo Tracking*

Posters

**Note: All posters will be displayed all day.
We hope that presenters will be on site to discuss their posters during the assigned two-hour time slot.**

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10:00 a.m.-12:00 noon

1. Cinthia Squillace (CSD) - *Factors Associated with Third-Party Hearing Disability in Communication Partners*
2. Alex Middleton (CSD) - *SLP Knowledge and Training for Working with Trans* Populations: SLPs Ready to Learn*
3. Mitchell Mazza (CSD) - *Clinical Impression: To What Extent is there a Discrepancy Between Initial Fluency Classification and Fluency Score from Spontaneous Speech Tasks?*
4. Molly Gross (LLL) - *Analysis of a Piece of Art from the Spanish Civil War*
5. Anna Gugerty (LLL) - *Interpretation of Art and Written Pieces from the Bird Library Special Collections on Spanish Culture: Treatment of Women during Franco*
6. Sarah Dolbier (LLL) - *"Fluchtpunkt Magdeburg": Reappraisal/revision of a German youth theater project 2015 to 2019 in Magdeburg, Germany a focus on integration and language acquisition*
7. Gillian Follett (LLL) - *Analysis of Abraham Lincoln Brigade posters/postcards propaganda (The Impact of Proaganda on Republican Recruitment in the Spanish Civil War)*

8. Kaitlyn Maritan (LLL) – *No Title*
9. Abby Pownall (LLL) – *Propaganda During the Spanish Civil War*
10. Polina Shemanova (LLL) - *Role of L1 Russian in Acquisition of L2 English Prepositions: Positive vs Negative Transfer*
11. Alyssa Helland (LLL) – *Analyze Photos of the Spanish Civil War*
12. Aidan Burke (LLL) – *Spanish Civil War political cartoons*
13. Elise Newhouse (LLL) - *Analysis of Art and Written Pieces from 20th Century Spain*
14. Warren Yermack (LLL) – *No title*
15. Chloe F. Ludden, Theodor J. Perry, Patrick J. Fitzsimmons, Benjamin F. Wheeler, Kimberley R. Lebowitz (PSY) - *A Dual Examination of Treatment Integrity: Examining the Effects of Student Adherence on Intervention Outcomes*
16. Maha Ali (PSY) - *Examining the Relationship Between Mental Health and Emotional Eating in University Students*
17. Nathania Pabon and Craig Dill (PSY) - *Does Environmental Enrichment Mitigate the Reduction in Attraction to Social Odors in Mixed Control and Maternally Separated Adolescent CD-1 Mice?*
18. Andrea Lin and Kaitlyn McDonald (PSY) - *Mixing Control and Maternally Separated Adolescent Mice Does Not Improve Sociability*
19. Colin Crouse (PSY) – *Pre- Sleep arousal in E-Cigarette Users and Non-Users*
20. Alicia Mason and Samantha Van Sicen (PSY) - *Does Environmental Enrichment Mitigate the Increase in Stress Reactivity in Mixed Control and Maternally Separated Adolescent CD-1 Mice?*
21. Ashley Tubens (PSY) - *Medical Workers' Judgment of Black and White Patients Seeking Sexual/Reproductive Health Counseling*
22. Veronica Bucci and Mikaela Gjoka (PSY) - *Community & Social Support on Levels of Attachment Insecurity Among the Transgender and Non-Conforming Community*

23. Matt Cufari (PHY) - *Using the Hills Mechanism to Generate Repeating Partial Tidal Disruption Events and ASASSN-14ko*
24. Diego Luna (PHY) - *Impacts of Background Enzyme On Liquid-Liquid Phase Separation of UBQLN2*
25. Hong Boem Lee (PHY) - *The Effects of Ionic Strength in MAP65 Binding to Microtubules*
26. Nathan Magers (PHY) - *Near-UV Scattering and Absorption by Nanoparticle Colloidal Suspensions for a Novel Liquid Scintillator Detector*
27. Catherine Wallace (CHE) - *Raman Spectroscopy of Lattice Vibrations in Crystalline Mycophenolic Acid*
28. Cheyene Muenzel (FSC) - *Determining Cause of Death Using Machine Learning Algorithms*
29. Taylor Drabick and Mackenzie C. Allen (BIO) - *Val66Met Brain-derived Neurotrophic Factor Single Nucleotide Polymorphism: Implications for Learning and Memory*
30. Daulton C. Myers (BIO) - *Intrahippocampal Glucose Enhancement of Learning and Memory: Interactions with Estrogen Status of Young Adult Female Rats*
31. Shannon Pitt (BIO) - *Sex-dependent Disruption of Normal Social Behavior and Sensorimotor Gating in System xc-Null Mice*
32. Julianna K. Mercado (BIO) - *Defining Domains in Dse3 that Interact with Pxl1 and Localize the Proteins at the Mother-bud neck in Saccharomyces cerevisiae.*
33. Monica A. Ciaffi (BIO) - *Age-related Changes in Regulation of Lactate Production by Astrocytes in Rat Brains.*
34. Maya Bolger-Chen (BIO) - *Evaluating the Effects of Blocking Maternal Progesterone Signaling on Perinatal Primordial Follicle Formation.*
35. Jule E. Kouki (BIO) - *Making Menopause Metabolic Across Multiple memory Systems*
36. Bradley Anderson (BIO) - *Investigating the Impact of Aerobic Exercise on the Seizure Threshold in Mice.*

37. Meris S. Rosenberg, Viktoria Jakubikova, Ellie Aspin (BIO) - *NAD-Kinase-Biochemical Characterizations in Human Tissue and Sea Urchin Eggs (L. variegatus) - New Findings Regarding Nucleotide Triphosphates.*
38. Julianna Paladino (BIO) - *Co-Localization of UBQLN2 into Stress Granules.*
39. Samantha O. Sutton (BIO) - *Astrocyte System xc Conditional Null Mice Demonstrate Resistance to Chemical Kindling*
40. Camila Tirado (BIO) - *Understanding the Interaction Between Secondary Cell Wall Biosynthesis and Abiotic Stress*
41. Michaela J. Martin (BIO) - *Melodic Memory: Musical Priming's Influence on Different Memory Systems*

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2:00 p.m.-4:00 noon

42. Lia Figurelli (PSY) - *Attachment Orientations in Adopted Adults*
43. Mason Lott (PSY) - *The "Lazy Poor" or the "Unlucky Poor"? Manipulating Class- Based Attributions at the Group Level and in a Hiring Context*
44. Aubriana Schwarz, Shockey Sanders, Ashlyn Umbach (PSY) - *Past-Month Drinking Among Bi/Multiracial Versus Monoracial Youth: Association between Peer, Sibling, and Parental History of Alcoholism*
45. Salvatore Gallo (PSY) - *Associations Between Time Spent Awake in the Bedroom and Insomnia Among College Students*
46. Fiona Powers Beggs and Julianna Hernandez (PSY) - *A Mobile App Based Training Program to Test and Improve Spatial Skills Modeled on the Kuuk Thaayorre Language*
47. Briana Lavin, Spencer Watt, Uchechi Onyenkpa, TJ Shaw (PSY) - *Recruitment of Vulnerable and Hard-to-Reach Populations*
48. Kieran Kokesh (PSY) - *"The "I" in "Identity": Assessing a Correlation between Age and Strength of Gender-Diverse Identities in the Face of Internalized Stigma*
49. Lauren Avery (FSCI) - *PMI Identification Through Microbial Composition*

50. Macy Meyers (LLL) - *Uniting Under Communist Ideologies: The Abraham Lincoln Brigades*
51. Elanienne Coste (LLL) - *No Title*
52. Anayancy Barajas (LLL) - *No Title*
53. Kim Acosta (LLL) - *No Title*
54. Caitlin Donoghue (LLL) - *Analysis of Pieces from Herbert Kline Scrapbook in Special Collections*
55. Jenna McArdle (LLL) - *Analysis of Political Cartoons from the Spanish Civil War and Cold War Eras*
56. Oduduabasi Isaiah (PHY) - *Understanding Vimentin's Impact on Cell Matrix Adhesions*
57. Nedine Abdelhamid and Carina Boyce (PHY) - *Inhibition of Katanin-Induced Microtubule Severing*
58. Sophia Martin and Niaz Goodbee (PHY) - *Microtubule Self-organization by a Crosslinker and the Effects of Salt Concentration*
59. Nicolle Laines and India Aikens (PHY) - *Self-organization of an Active Matter Microtubule System*
60. Jenna Cammerino (PHY) - *Understanding the Core Collapse Supernova Mechanism with Gravitational Waves*
61. Gabrielle Weinstein and Brianna Lennehan (CSD) - *Maximizing the Consent Process for Persons with Aphasia*
62. Christina Piera (CSD) - *Re-CAAST Treatment Study: Aiming to improve therapy outcomes for individuals with mild aphasia and apraxia*
63. Ryan W. Montgomery and Sam O'Neill (BIO) - *Effect of 20 kHz Ultrasound on the Proliferation of Human and Mouse Leukemia and Normal Bone Marrow Mononuclear Cells*
64. Sheila Legus-Christman and Yihong Xia (BIO) - *Simultaneous Sonication of MOLT4 Human Acute Lymphoblastic Leukemia with 20 and 40 kHz Low Frequency Ultrasound at a 180 degree Angle*

65. David V. Harvey (BIO) - *Biomimicry Applications to Improve the Common Surgical Mask*
66. Brianna E. Cardillo (BIO) - *Arbuscular Mycorrhizal Fungi and Their Role in Switchgrass Biofuel Production*
67. Nathan M. Ashby (BIO) - *Using Zebrafish to Determine the Impact of BPA and its Alternatives on Seizure Susceptibility*
68. Karim M. Wehbe (BIO) - *The Effects of Exposure to BPA and Its Analogs on Seizure Susceptibility on Zebrafish*
69. Alexis Chu (BIO) - *Production of Holographic Gratings with SU-8 Photoresist on a Quartz Crystal Microbalance*
70. Elizabeth Granowsky (BIO) - *Contact Guidance Provided by Photoresponsive SMP Triggered by Visible Light*
71. Kamileh A. Rivera, Rayanna L. Graviano, Vanessa J. Nocevski (BIO) - *Effect of 20 and 40 kHz on the Sonic Sensitivity of Human and Murine Leukemia Cells as a Function of Frequency and Cell Diameter*
72. Samuel McClintic (BIO) - *Relations Among Tree Demography, Microclimate, and Soil Conditions at Upper Treelines in the Adirondack Mountains, Northeastern United States.*
73. Mary C. Ross (BIO) - *The Role of DAF-12/NHR in Regulating C. elegans Environment Sensing through OSM-9/TRPV*
74. Elena S. Figler (BIO) - *Threshold Responses in Yellowstone Grasses Across a Broad CO₂ Gradient*
75. Samantha Armstrong (BIO) - *Histone Demethylases JMJ16 and JMJ18 Negatively Regulates Systemic Acquired Resistance in Arabidopsis thaliana*
76. Amy Mueller (BIO) - *Understanding the Role of JMJ20 in Regulating Abiotic and Biotic Stresses in Arabidopsis thaliana*
77. Minhein Htet (BIO) - *Constructing a Phylogenetic Tree Using Orthologous Coding Exons*
78. Dylan Gray (CHE) - *Light-Mediated Small Molecule Activation of Dopamine and Serotonin Receptors and Its Forensic Applications*

79. Jazmine Richardson (CHE) - *The Development of an Open Source Turbidostat Towards Low-Cost, Parallel Expression of Multiple Labeled Mutants*
80. Hugh Medvecky, Rebecca L. Smiga, Ashley Issak (BIO) - *Effect of 2 μ M CB and 4 nM VCR on the Sonic Sensitivity of hK562 and hU937 vs BMMC using 20 kHz, 5x0.5s Pulses*
81. Maddie Wischerath (WRSC) - *Normalcy Rhetoric: The Intangible Impact of Defining "Normal" During the Age of COVID*
82. Maggie Sardino, Lizmarie Montemayor, Katie Miles, Sophie Stokoe (Engaged Humanities) - *Community-based Participatory Assessment in the Engaged Humanities*