

MUSE 2021 Poster Session

Poster #	School	Department	Student Presenters	Poster Title	Faculty Mentors	Poster #	School	Department	Student Presenters	Poster Title	Faculty Mentors
1	The Arts and Communication	Art and Art History	Carly McKenzie, Emily Madeira	Pulling Paper	Dr. Elizabeth Mackie	38	Science	Biology	Shania Welch	Leaf Shape Variation in <i>Lonicera Caerulea</i> Species Complex	Dr. Wendy Clement
2	The Arts and Communication	Interactive Multimedia	Vincent Terraneo, Haley Wright	Interactive Exhibit Design: The Art of Plant Communication	Dr. Chris Ault	39	Science	Biology	Yeram Kang, Callie Triano, Jazmine Shaw	Shell Growth, Mechanics, and Structural Properties of Adult and Juvenile Barnacles	Dr. Gary Dickinson
3	The Arts and Communication	Journalism and Professional Writing	Octavia Feliciano	Conversations Across Boundaries	Dr. Kim Pearson	40	Science	Biology	Sean Siniscalco, Mariana Ovalles, Sophy Vuong	Investigating Large-scale Deletions in the <i>Acinetobacter baylyi</i> genome	Dr. Kathryn Elliott
4	Science	Computer Science	Jenna Stiesi, Kiera Gill, Matt Hannum	CABPortal: Leveraging Collective Intelligence to Improve Sustainability of Web-Based Portals	Dr. Monisha Pulimood	41	Science	Biology	Nicole Lester, Sruthi Kunnameni	SIDS, Serotonin and Nicotine Exposure: Using an Animal Model to Explore Underlying Pathology	Dr. Jeffrey Erickson
5	Humanities and Social Sciences	Sociology	Supriya Mishra	Interdisciplinary Education: A Qualitative and Quantitative Analysis	Dr. Diane Bates	42	Science	Biology	Belmarie Siverio, Elysia Ortiz	Cell Differentiation in <i>Volvox</i> <i>powersii</i>	Dr. Zach Grochau-Wright
6	The Arts and Communication	Music	Terence Odonkor	Reorchestrating George Antheil's "A Jazz Symphony"	Dr. Eric Laprade	43	Science	Biology	Audrey Riccitelli	Prion Formation [PSI+] and Benefits in <i>S. cerevisiae</i>	Dr. Tracy Kress
7	Business	Economics	Aaron Kopew, Namitha Sethuraman	US Political Party Spending Across Multiple Objectives	Dr. Matthew Greenblatt, Dr. Trevor O'Grady	44	Science	Biology	Noemi Rosario	Identifying proteins that coordinate RNA synthesis with splicing effects of a esal-254 point mutation on splicing in yeast	Dr. Tracy Kress
8	Education	Special Education, Language and Literacy	Nature Elmore	ROSCOE Educators Faculty/Peer Mentoring for First Generation Education Students	Dr. Nadya Pancsofar	45	Science	Biology	Camila Bolle, Christopher Snyder	Coupling between key steps in gene expression: A role for the NuA4 histone acetyltransferase and the variant histone Htz1 in co-transcriptional RNA processing	Dr. Tracy Kress
9	Education	Special Education, Language and Literacy	Jocelyn Gonzalez	Whiteness as negative space: Exploring teacher candidates' narratives about race, racism, and schooling	Dr. Michael Smith	46	Science	Biology	Lauren Rudolph, Cajetan Ejianreh, Stevia Nanfack Tsakem	Testing a Model for the Translational Control of Patterning During Zebrafish Embryogenesis	Dr. Marcia O'Connell
10	Engineering	Biomedical Engineering	Eugene Kim	Recessed Electrode Contacts to Minimize Tissue Damage from Deep Brain Stimulation	Dr. Xuefeng Wei	47	Science	Biology	Alekhya Madiraju	Assessing the perceptions of COVID-19 vaccine messaging tactics and identifying factors that contribute to hesitancy among African American populations	Dr. Natasha Patterson
11	Engineering	Biomedical Engineering	Allen Hong, Eugene Kim	Novel Recessed Curvature to Increase Selectivity in Deep Brain Stimulation	Dr. Xuefeng Wei	48	Science	Biology	Abigail Klimas, Olivia Hiltke	Hyperglutamylation Impacts Broodsize and Cilia Production in <i>Caenorhabditis elegans</i>	Dr. Nina Peel
12	Engineering	Biomedical Engineering	Lara Abdelmohsen	Nano-CT Image Processing and Micromechanical Modeling of Intermuscular Bone in Herring	Dr. Anthony Lau	49	Science	Biology	Naileny Rodriguez, Zion Lee	Investigating the Effects of Glutamylation on <i>C. Elegans</i>	Dr. Nina Peel
13	Engineering	Biomedical Engineering	Michelle Meyers	The Effects Of Galactic Cosmic Radiation On The Material Properties Of Bone	Dr. Anthony Lau	50	Science	Biology	Erica Mends	Role of RpoN1 and RpoN2 in metabolism of <i>Ralstonia solanacearum</i>	Dr. Zaara Sarwar
14	Engineering	Biomedical Engineering	Sabrina Vander Wiele	Bone Microstructural Changes in Rat Tibias Exposed to Space Radiation	Dr. Anthony Lau	51	Science	Biology	Alisha Srivastava, Akshad Thirugnanam, Mary Angela Senter	Gene expression and growth analysis of CYP72A enzymes in corn and <i>Arabidopsis</i> stress responses	Dr. Lecann Thornton
15	Engineering	Civil Engineering	Dora Krstic, Jillian Stanton	Evaluating the Viability of the use of Anonymous Probe Vehicle Data to Measure Congestion Changes Due to Bridge Improvement	Dr. Andrew Bechtel	52	Science	Biology	Deep Patel, Aneudy Perez	Generation of reverse genetic resources to study the defense responses of maize (<i>Zea mays</i>)	Dr. Woldemariam
16	Engineering	Civil Engineering	Bryan Remache-Patino, Daniel Comeau	Characterizing Congestion Impact of Road Diet Lane Reduction Using Probe Vehicle Data	Dr. Thomas Brennan	53	Science	Biology	Lucia Castaneda, Amechelle Leander	Investigating Evolution in Recently-established Populations of Strickleback Fish	Dr. Matthew Wund
17	Engineering	Electrical and Computer Engineering	Matthew Bohr	Analog CMOS Circuit for Solving Nonlinear Programming Problems	Dr. Ambrose Adegbege	54	Science	Biology	Kevin Sajan, Daniella Gurovich	Characterization of Amyloid Fibrils in <i>Pseudomonas</i> Species	Dr. Zach Grochau-Wright
18	Engineering	Electrical and Computer Engineering	Nia Harish	High-Speed Iterative Solver for Embedded Model Predictive Control	Dr. Ambrose Adegbege	55	Science	Chemistry	Michelle Amaechi	Designing New TCNJ General Chemistry Lab Modules Focused on Student Process Skills	Dr. Levi Ekanger
19	Engineering	Electrical and Computer Engineering	Francis Moran	Analog Circuits for Constrained Control	Dr. Ambrose Adegbege	56	Science	Chemistry	Ruhi Shah, Matthew Porowski	The Effect of Binding Mode on Ferric Thiolate Reactivity	Dr. Levi Ekanger
20	Engineering	Electrical and Computer Engineering	Nicole Lim, Elizabeth Lopez	Utilizing Object Detection of Humanoid Robots for Implementation in Motion Planning and Stereo Camera Calibrations	Dr. Seung-yun Kim	57	Science	Chemistry	Christopher Wu, Beth Singer	Formation of Lipid-Nucleic Acid Complexes	Dr. Donald Hirsh
21	Engineering	Electrical and Computer Engineering	Samantha Potomic, Michael Bond	Kick Optimization by Improving Stability and Effective Soccer Strategy Through Communication	Dr. Seung-yun Kim	58	Science	Chemistry	Anthony Cucurullo, Jose De Leon Gonzalez	Conductive Polymers Nanofibers For Electrochemical Sensing Applications	Dr. Rebecca Hunter
22	Engineering	Electrical and Computer Engineering	Michael Franco-Garcia, Nithya Nalluri	The Future of Machine Diagnostics in Smart Manufacturing Environments: A Study of Deep Neural Networks Transfer Learning for Fault Diagnosis Applications	Dr. Mohammed Alabsi, Dr. Larry Pearlstein	59	Science	Chemistry	Harrison Yang	Converting the Griess Assay to Paper-Based Microfluidic Devices	Dr. Rebecca Hunter
23	Engineering	Mechanical Engineering	Zachary Leong	Vibration Analysis Testing Rig	Dr. Mohammed Alabsi, Dr. Larry Pearlstein	60	Science	Chemistry	Zachary Bacino, Zachary Vazquez	Progress Towards the Synthesis of Base Metal Catalysts for CO2 Functionalization	Dr. Abby O'Conner
24	Engineering	Mechanical Engineering	Raahi Desai, Tyler Griffin	3D Printing of Microfluidic Devices with Short Nanofibers Incorporated	Dr. Karen Yan	61	Science	Chemistry	Athziri Castellanos	Expanding Green Chemistry Principles into the Organic Chemistry Laboratories	Dr. Abby O'Conner
25	Humanities and Social Sciences	Psychology	Jessica Turner	Disclosing Campus Sexual Assault to Formal Support Systems Increases Posttraumatic Stress Symptoms Due to More Negative Social Reactions	Dr. Joanna Herres	62	Science	Chemistry	Emily Podd, Clifford Yung	Developing Homogeneous Organometallic Catalysts for the Hydrogenolysis of Common Polyolefins into High Quality Alkane Products	Dr. Abby O'Conner
26	Humanities and Social Sciences	Psychology	Bernard Pereda	The Direction of Effects between Depressive Symptoms and Alcohol-Related Problems in College Students	Dr. Joanna Herres	63	Science	Chemistry	Mary Spireas, Michael Zampetti	Photochemistry of 2-Pyridones with Para-Substituted Benzenes	Dr. Lauren Rossiter
27	Humanities and Social Sciences	Psychology	Jazzlyn Diaz, Snehi Mukkamalla	Exploring Black Immigrant Students' Educational Experiences in K-12 Schools	Dr. Adaurennya C. Onyewuanyi	64	Science	Chemistry	Alana Calello, Zach Ziolkowski	Isolation and Characterization of a Cysteine Dioxygenase Model Complex Intermediate from Aqueous Media	Dr. Levi Ekanger
28	Nursing, Health, and Exercise Science	Nursing	Damilola Aromolaran	School Readiness and Social Determinants of Health: A Collaboration with Community, Teachers, and Parents	Dr. Rahshida Atkins	65	Science	Computer Science	Michael Giordano, Vihan Patel	Varying Validation Set Size to Improve Machine Translation	Dr. Michael Bloodgood
29	Nursing, Health, and Exercise Science	Nursing	Afia Hinckson	Health Disparities: The Effects of Race/Ethnicity and Maternal Education on Infant Mortality	Dr. Rahshida Atkins	66	Science	Computer Science	Andrew Michael, Kyla Ramos	Investigating the Effectiveness of a Visual Cyberstickness Questionnaire	Dr. Sharif Mohammad Shahnewaz Ferdous
30	Nursing, Health, and Exercise Science	Nursing	Chase Eisenberg, Christopher Worthington	Teddy Bear Clinics	Dr. Tami Jakubowski	67	Science	Mathematics and Statistics	Lana Abdelmohsen	How much can a neural network learn about jelly fish ?	Dr. Nicholas Battista
31	Nursing, Health, and Exercise Science	Nursing	Sara Munoz	Parents of Adult Children with Autism: Hopes and Dreams for Late Life	Dr. Consyance Kartoz	68	Science	Mathematics and Statistics	Kendra Ebke	When it is Good to be Out of Sync: Copepod and Marine Snow Interactions	Dr. Nicholas Battista
32	Nursing, Health, and Exercise Science	Nursing	Gabrielle Wells, Darita Willis-Parreot	Exploring Mentoring Activities to Increase Awareness of the Profession of Nursing to High School Students: A Teamwork/ Collaboration Project	Dr. Yolanda Nelson	69	Science	Physics	Michael Pedowitz	Investigating a Hard X-Ray Luminous AGN at High-Redshift	Dr. Lauranne Lanz
33	Nursing, Health, and Exercise Science	Public Health	Jasmine Yee	Person-Centered Care for Institutionalized Older Adults in the Context of the COVID-19 Pandemic in Brazil: A Case Study	Dr. Marina De Souza	70	Science	Physics	Abigail Cruz	Possibilities of Habitable Zones Around Post-AGB Stars	Dr. Lauranne Lanz
34	Nursing, Health, and Exercise Science	Public Health	Seana Cleary	Assessing the Risk of Cryptosporidiosis to Dairy Farmers in New Jersey	Dr. Alexis Mraz	71	Science	Physics	Dean Klunk	Do Elementary Schools Ignore Physics?	Dr. AJ Richards
35	Science	Biology	Santiago Cardenas	Herbivory in native and invasive honeysuckle herbarium specimens	Dr. Wendy Clement	72	Science	Physics	Pierce Wickenden, Nicholas Lipari	Secondary Electron Emissions Yield from Electron Bombardment in Ionic Liquids	Dr. Angela Capece
36	Science	Biology	Aahna Rathod	Using Machine Learning and Natural History Specimens to Study Leaf Shape Evolution of Honeysuckles	Dr. Wendy Clemet	73	Engineering	Biomedical Engineering	Jack T. Felipe	Effect of Galactic Cosmic Radiation on Bone Microstructural Strength	Dr. Anthony Lau
37	Science	Biology	Ria Shah	Evolution of Corolla Morphology with Application to Pollination Biology in <i>Lonicera</i>	Dr. Wendy Clement						