MUSE 2025 Poster Session

#	School	Department	Student Presenters	Poster Title	Faculty Mentors
1	Arts and Communication	Art & Art Education	Sky Stewart, Marisa Martinez	MUSE 2025: CONTEMPORARY CURRENTS	Elizabeth Mackie
2	Education	Elementary & Early Childhood Education	Meera Bhatt	“How do Education Faculty Parents Talk to Their Kids About Climate Change?" Exploring Perspectives on NJ’s K–12 Climate Standards	Arti Joshi, Lauren Madden
3	Education	Special Education, Language, and Literacy	Meg Baoas	Balancing Speech Clarity and Spatial Hearing: Evaluating Mild Frequency Lowering on Binaural Cues	Lynn Smith
4	Engineering	Biomedical Engineering	Hannah Hoer, Snigdha Thallapragada, Joseph Certo	Pneumatic Hand Exoskeleton	Brett Busha
5	Engineering	Biomedical Engineering	Abigail Cole	The Effects of Enrichment and Alcohol on Bone Health	Anthony Lau
6	Engineering	Biomedical Engineering	Stephanie Frolio	Microindentation Analysis of Mice Cortical Bone in the Space Environment	Anthony Lau
7	Engineering	Biomedical Engineering	Nina Kolodchak	Mechanical Testing of Bone Changes in Mice Due to Microgravity	Anthony Lau
8	Engineering	Biomedical Engineering	Jeremy Liegner	Finite Element Analysis Resolution Optimization Using the ELSA HPC Cluster	Anthony Lau
9	Engineering	Civil Engineering	Elizabeth Barlow, Jasmyn Watson	Concentrated Loads on Cold-Formed Steel Decking	Andrew Bechtel
10	Engineering	Computer and Electrical Engineering	Jose Peralta	Enhancing Drone Flight Performance: MPC vs PID Control	Ambrose Adegbege
11	Engineering	Computer and Electrical Engineering	Mason Rabtzow	Linear Complementarity Problem Based Solver for Model Predictive Control	Ambrose Adegbege
12	Engineering	Computer and Electrical Engineering	Grace Monetti	Microstrip Patch Antenna Optimization Using Characteristic Modes for Wideband Array Applications	Mahrukh Khan
13	Engineering	Computer and Electrical Engineering	Nicholas Schwing, Ryan Cangiano	Thin Transistor Simulation Study for Sensor Applications	Wudyalew Wondmagegn
14	Engineering	Mechanical Engineering	Khushboo Etai	Optimizing Sodium-Ion Battery Performance	Ardeshir Bangian Tabrizi
15	Engineering	Mechanical Engineering	Asid Khadam, Andrew Kromidas	Design of a Cost-Effective Parking Robot	Jennifer Wang
16	Humanities and Social Sciences	Anthropology	David Kraidman	Creating a Campus-Wide Sustainability Literacy and Culture Survey	Miriam Shakow
17	Humanities and Social Sciences	Criminology	Elissa Paranich	Whose Lived Experience Matters?: An analysis of Criminology’s Exclusion of Convict Criminological Research	Jennifer Ortiz
18	Humanities and Social Sciences	History	Grace McHugh	“The Murder of Lidice” WWII Propaganda And International Responses to Genocide	Cynthia Paces
19	Humanities and Social Sciences	Political Science	Esmeralda Regalado	“Looking the Part”: Women Lawyers, Experiences of Nonbelonging, and Political Ambition in the U.S.	Tao Dumas
20	Humanities and Social Sciences	Psychology	Mikayla Renzi	The Influence of Active and Passive Leisure on Distress as Moderated by Escapism Motives	Joanna Herres

21	Humanities and Social Sciences	Psychology	Chloe Yadav	Faculty and Staff Perceptions of Their Response to Undergraduate Students' Disclosures of Campus Sexual Assault: A Mixed Methods Approach	Joanna Herres
22	Humanities and Social Sciences	Psychology	Christian Noguchi	How Does Disfluency Affect the FN400 and N400 Event-Related Potentials? Evidence From a Masked Word Priming Task	Andrew Leynes
23	Humanities and Social Sciences	Psychology	Ashton Calo, Kendra Wireko-Brobby	Building Capacity for Equitable Research on STEM Learning Processes Using Quantitative Ethnography	Adaurennaya Onyewuenyi
24	Humanities and Social Sciences	Sociology	Jenna Needham	Sure of the Wrong Answer: Overconfidence in Vehicle Submersion Emergencies	Elizabeth Borland
25	Humanities and Social Sciences	Women's, Gender, and Sexuality Studies	Ebony Riley	Digitizing Apartheid Heritages	Marla Jaksch
26	Nursing and Health Sciences	Nursing	Megan Majewski	Academic-Community Partnerships: Exploring the Psychosocial Effects of a 12-Week Group-Dance and Education Intervention in Mothers of Childbearing Age at Risk for Depression	Rahshida Atkins
27	Nursing and Health Sciences	Nursing	Elyse Ryan	Medical Mistrust and the Impact of Policy on an Impoverished Society	Vicki Brzoza
28	Nursing and Health Sciences	Nursing	Kayla Creedon	STUDENT PERCEPTIONS OF THE INFLUENCE OF SOCIAL DETERMINANTS OF HEALTH ON FOOD CHOICES	Judy Harkins
29	Nursing and Health Sciences	Nursing	Michael Hamm	Cross-Cultural Overlap in Family Nursing: Insights From a Global Competency Document Analysis	Constance Kartoz
30	Nursing and Health Sciences	Public Health	Aidan Morales, Tanvika Gudisey	Legionella, A Survival Story: Persistence and Rebound Events Following Chlorine and Heat Treatment.	Alexis Mraz
31	Science	Biology	Corin Hoppe, Sameer Kamal	Shell Formation of Crustaceans	Gary Dickinson
32	Science	Biology	Nancy Dominguez, Shira Weiss	Why so Blue? Investigating Interactions Among Proteins Involved in 16S rRNA Processing	Kathryn Elliott
33	Science	Biology	Adan Godoy, Madelyn Murphy	Using an in vitro electrophysiological approach to investigate central respiratory drive in neonatal serotonin-deficient mice	Jeffery Erickson
34	Science	Biology	Amanda Khoury	Exploring the role of glutamylation and tyrosination in C. elegans fertility	Nina Peel
35	Science	Biology	Matthew Senn	Investigating how the Tubulin Code Alters Microtubule Function	Nina Peel
36	Science	Biology	Samantha Pacera	Examining how CYP72A9 confers stress resilience in Arabidopsis thaliana	Leeann Thornton
37	Science	Biology	Katie McGee, Isha Patwardhan	Body Size Plasticity and Assortative Mating in Threespine Stickleback Fish	Matthew Wund
38	Science	Chemistry	Daniela Agne, Sara Kuwar	Shell shocked! Computational modeling and steered molecular dynamics of the barnacle protein bsf	Joseph Baker
39	Science	Chemistry	Tanzim Didar	Pyelonephritis-associated Pili Under Pressure: Steered Molecular Dynamics Investigation of E. coli Adhesion Mechanics	Joseph Baker
40	Science	Chemistry	Christina Medina	Puzzle Pieces: Comparing F, T, and H-Pili Subunit Dynamics	Joseph Baker
41	Science	Chemistry	Kashish Sood	A Sticky Situation: Understanding the Interactions Between Phospholipids and H-Pili Subunits	Joseph Baker
42	Science	Chemistry	Julianna Eloizard	Development of a Paper-Based Analytical Device for Phosphate Analysis in Student-Inquiry Chemistry Labs	Rebecca Hunter
43	Science	Chemistry	Kimberly Liu	Creating conductive polymer nanofibers for biological sensing applications	Rebecca Hunter

44	Science	Chemistry	Moncher Lee	Synthesis of Ru-allenylidene Complexes	Giovanny Parada
45	Science	Chemistry	Sean Sprague	PCET of C-centered radicals of Ru-acetylide/allenylidene Complexes	Giovanny Parada
46	Science	Chemistry /Mathematics and Statistics	Emily O'Keeffe	Comparing stability of the cyclized and linear forms of H-pilin from Salmonella enterica using molecular dynamics simulations	Joseph Baker
47	Science	Chemistry /Mathematics and Statistics	Gabriella Chipelo	Hight Structured Guided Practice (HSGP) Outcomes	Zachary Kline
48	Science	Computer Science	Ryan Wojciechowski	Using LLMs to Simplify Cybersecurity Information	Prerit Datta
49	Science	Mathematics and Statistics	Mina Guglietta, Danial Baron	Tracking the Rise of High-Deductible Health Plans	Zachary Kline
50	Science	Physics	Jon Spricigo, Maria Owens	Nanoparticle Synthesis in Ionic Liquids using a Plasma Source	Angela Capece
51	Science	Physics	Michael Zeringue, Katherine Spuckes	Exploring Engineering Habits of Mind and the Engineering Design Process in Children's Picture Books	Manuel Figueroa
52	Science	Chemistry	Nicolas Lesniak	Comparative Analysis of Extraction Techniques for Nicotine and Cotinine Analysis Using GC-MS	Rebecca Hunter