

# Celebration of Student Achievement 2025 Posters

## Session 1 - BSC 100, 8:45 am - 9:45 am

#	Topic	Student Presenters	Poster Title
1	Environment & Health	Nicholas Campitiello	The Therapeutic Alliance in Relation to Therapists Use of Novel Metaphors
2	Human Experience	Sophia Collins	Anxiety and the Impact of Metaphors in Psychotherapy
3	Human Experience	Isabella Guzman-Umana	Multiculturalism, Multilingualism and Emotional Processing
4	Human Experience	Katherine Mazzacco	Correlation between Emotional Intelligence and Metaphor Comprehension
5	Human Experience	Desirae Thompson	The Intersection of Gender and Cultural Background in Metaphor Usage Among Psychology Students
6	Management & Communications	Michael Byrnes	Agentic AI in Finance
7	Management & Communications	Elijah Parkman-Williams	Social Media Effects on Intrapersonal & Interpersonal Relationships
8	Management & Communications	Mackenzie Bangerter	Performance Evaluation of Motorsport Scoring Systems
9	Management & Communications	Gabrielle Smith, Christina Dawson , Daniel Valvano	Nationwide Newspaper Coverage of Opioid Use: Community Structure Theory and Belief Systems *
10	Management & Communications	Salvatore Zotti	Impact of Hedgefund Manager's College Background on Environmental Issues
11	Global Perspectives	Alexander Sylvester	A study of the relationship between metaphor, linguistic comprehension and Bilingualism
12	Global Perspectives	Valerie Huynh, Tara Richardson, Sanjana Dokiburra	From Ancient Oracle Bones to Modern Writing Systems: Calligraphy and Philosophy Through the Ages *
13	Global Perspectives	Gianella Bautista	Exploring Legal Trends in Latin America
14	Environment & Health	Kaitlin Harker	Exploring Metaphors as a Tool for Hopelessness Within Depression
15	Environment & Health	Emily Liranian	Use of Metaphor in Advertising: Preference, Recall, Persuasion, Directness

16	Environment & Health	Samantha Matson	The Impacts of Metaphorical Framing on Patient Well-being and Communication: Exploring the Potential for Emotional Distress, Oversimplification, and Misinterpretation
17	Environment & Health	Juliana Palazzo	Does use of metaphoric language elicit a stronger positive emotional response than literal language?
18	Environment & Health	Ishita Jain	FbIn1 Expression in Hypoxia-Induced Pulmonary Hypertension
19	Environment & Health	Sophie Frank	Compassion Training in the Workplace
20	Environment & Health	Nicolina Schwindt	Compassion and Communication in Cancer Care
21	Environment & Health	Ashley Proveaux, Leanna Gioscio, Kayla Reul, Gianna Glover	Depression in College-Aged Students
22	Environment & Health	Corinne Coakley	Sustainable Stories: Supporting Greener Communities in NJ ^ *
23	Social Justice	Jennifer Castro, Victoria Rocker	Transforming the Bonner Community Scholars First Generation Student Population ^
24	Social Justice	Nimra Nadeem	Understanding Healthcare Access in Morris County: Analysis of Insurance and Socioeconomic Factors – A Collaboration with the Morris Regional Public Health Partnership (MRPHP)
25	Social Justice	Kayla Wilhalme, Meghan Ansbro	Beyond Feel-Good Legislation: An examination of Policy Responses to School Shooting
26	Human Experience	Camryn Bearce	How Metaphoric Language Affects Task Efficiency
27	Human Experience	Kaitlyn Benson	Metaphors in Decision Making
28	Human Experience	Elon McCain	Comparative Analysis of Historical and Contemporary Immigrant Discrimination in the U.S. *
29	STEAM	Conrad Felix	The Effects of Metaphors in Math Problems on Mathematical Performance
30	STEAM	Ashley Spilatore	How Metaphor Use Promotes Learning Outcomes and Engagement in Mathematics Education
31	Social Justice	Jazmine Barrera-Recinos, Jules Boyle	Engagement, Enthusiasm, and Empowerment: A Reading Initiative for Academic Sports Academy in Trenton ^

## Session 1 - Rec Center, 8:45 am - 9:45 am

#	Topic	Student Presenters	Poster Title
1	STEAM	Medha Gurukiran	The Synthesis and Characterization of 4-Amino-4'-Dimethylaminoazobenzene Cocrystals
2	STEAM	Michael Rogers	Characterization of Azobenzene Cocrystals with Dipyridyl Coformers
3	STEAM	Nikki Williams	Crystal Engineering of Photomechanical Hydroxyazobenzene Cocrystals
4	STEAM	Cassandra McDermott	Synthesis and Characterization of Novel Ligands for Re Catalysts
5	STEAM	Nicholas Calabrese	Analysis of the Motion of Nanoparticles in Ionic Liquids Under Electron Irradiation
6	-	-	-
7	STEAM	Joe Petrecca, Skyler Keyek	Ground Deformation in NJ due to Groundwater Withdrawal
8	STEAM	Vincent Territo	Photometric Analysis of Supernovae
9	STEAM	Daniel Patterson	Analysis of Three Exoplanet Resonant Chain Evolutionary Pathways
10	STEAM	Zay Farzan, Phillip Nezamis, Cody Pedersen	Structured color via optical diffraction
11	STEAM	Sara Cadavid, Erin Sommers, Iman Naqvi, Jon Hauptman	UroEase - Urine Collection and Urinalysis Testing Device
12	Human Experience	Persephone Holman	From Crinolines to Cholera: Ritual Concealment and Disease in Early America
13	STEAM	Joseph Dobles	The "Co-clear" Hearing aid with Playback
14	STEAM	Darren Leopold	Exploring the mechanism of corn CYP72A28 in acclimation to cold and drought stress
15	STEAM	Panagiota Perdakis, Matthew Buginsky, Preksha Patel, Jack Nyhuis, Kenneth Shane Lawas	Cradle Cam: Non-Contact Baby Vital Signs Monitor
16	-	-	-
17	STEAM	Karolina Wielowski	Characterizing the Biophysical Properties of Bacterial Endospore Appendage (Ena) Pili Using Molecular Dynamics Simulations
18	STEAM	Ren Wolstenholme, Ray Wright, Jackson Malouf, Lucas Schneid	ComfortLift: A Hospital Transfer Device for Orthopedic Hip and Lower Spine Patients *
19	STEAM	Muhammad Zahid	Redesign of Parkway avenue and Farrell avenue *
20	STEAM	Romy Zemer, Ijeoma Ikwu, Katelyn Beauport, Lois Berchie, Filipe Pais	Mitigating Stress in College Students *
21	STEAM	Iknoor Grewal	Investigating the effects of histatin-5 interactions on the biophysical properties of the E. coli CS20 pilus.

22	STEAM	Vani Lorish	Artificial Intelligence Guided Protein Design to Disrupt Uropathogenic E. Coli Adhesion in the Urinary Tract
23	STEAM	Leah Sklar	Solar-Powered Frost Prevention System
24	-	-	-
25	STEAM	Ethan Becker, Hadi Akil, Thomas Wright	The Smart Spacer System
26	STEAM	Keira Killeen	A phylogenetic investigation into the evolution of organ fusion in Lonicera (honeysuckles) using herbarium specimens
27	STEAM	Cheyenne Torraca	Modeling the TCNJ Power Grid for the Maximization of Reliability and Renewability
28	STEAM	Om Balar, Melissa Issac, Hannah Lee	Disulfide Hetero-Coupling of Thiol Radicals in the Presence of RGS5 Visualized Through LC-MS
29	STEAM	Marianna Medina, Makenna Heslin, Justin Martinez	Substrate-dependent formation of thiyl radicals in a non-heme Fe(III) model system of cysteamine dioxygenase
30	STEAM	Omar Halim	Investigating the evolutionarily conserved yqgF gene and its effects on 16S ribosomal RNA maturation in Acinetobacter baylyi
31	STEAM	Kevin Dolan	Quantification of Serotonin Neuron Innervation in Neonatal Brainstems using Design-based Stereology *
32	STEAM	Kaitlyn Rayside, Saanvi Sawkar, Janvi Patel	Measuring cardiorespiratory and metabolic responses to hypoxic challenge in serotonin deficient neonatal mice
33	STEAM	Ariel Baiano	Physiological and Behavioral Assessment of a Pre-Clinical Model Following Organophosphate Nerve Agent Surrogate Exposure
34	STEAM	Etsub Gezahagne	A Genomic Approach to Investigating Chromosomal Variation in Pomegranate
35	STEAM	Amanda Khoury	CRISPRi in Maize Protoplasts to Elucidate Gene Function and Redundancy
36	STEAM	Julia Choinski	Ultrasonic Vocalizations by Neonatal Pet-1 Knockout Mice and Their Effect on Maternal Behavior *
37	STEAM	Breanna Wixted	Characterization & Competitive Binding Assays of Cyclic Peptides to Inhibit Thrombosis Initiation
38	STEAM	Grace Hamburg, Grace Hamburg, Emily Krassowski, Gianna Bartolomei, Casara Sexauer	Adjustable Lower Limb Socket
39	-	-	-

40	Environment & Health	Aneri Upadhyay, Alyssa Ferry, Sabrina Sanchez, Catherine Osorio, Camille Lansang	Effects of Environmental Enrichment on Behavioral Economic Demand for Alcohol in Male Long-Evans Rats *
41	Environment & Health	Sabrina Sanchez, Alyssa Ferry, Catherine Osorio, Elizabeth Carney, Lynne Abraham, Pooja Bhavsar, Ronald Braun, Samia Bromfield, Kenya Caballero, Anthony Edwards, Omar Farraj, Oniyah Ferrell-Hall, Sophie Frank, Camila Gomez, Hope Laudien, Nataly Lukonin	The Effects of Environmental Enrichment on Ethanol Consumption in Female Long-Evans Rats Using a Sipper-Tube Model

### Session 2 - BSC 100, 10:00 am - 11:00 am

#	Topic	Student Presenters	Poster Title
1	Environment & Health	Madeline Keefe	Nature-Centric Approach to Teaching Biodiversity
2	Management & Communications	Madeline Reynolds	Student Perceptions of Wind Turbines
3	STEAM	Jennifer Saune Gutierrez	Urban Sustainability Education
4	Environment & Health	Tanvika Gudisey, Abigail Buker, Madeline Weir, Ilana Magchilov	Assessing the Efficacy of Educational Support Interventions for Adolescent Parents
5	Environment & Health	Simranjot Mann, Emma Cartnick	From Heart to Sole: Examining the Association Between V-Shaped Foot Crease & Congenital Heart Disease
6	Environment & Health	Vinisha Patel, Amrutha Banda	Investigating the Impact of Biofilm Characteristics and Water Quality on Legionella pneumophila Growth
7	Environment & Health	Gia Alosi, Kayla Brockmeyer, Amanda Hernandez	Workplace Violence and the Impact on Nurses and Patient Care
8	Environment & Health	Rebecca Heath, Natalie Roesch, Jennifer Romero	Cross-National Media Coverage of Sexual Violence: Community Structure Theory, Economic Resource Privilege, and Agricultural Vulnerability *
9	Management & Communications	Kristen Afacan, Tyler Rummel, Salvatore Zotti	Student Investment Fund 2025 Portfolio Analysis
10	Management & Communications	Niorelys Mojica, Elasia Matos	United for Success: Advancing the WorkWell Partnership
11	Management & Communications	Kael McCarthy	Social Media Style Guide for Bonner Scholars ^

12	Management & Communications	Megan Folina	Leading in the Hybrid Era: Empowering Women to Thrive in the New World of Work
13	Management & Communications	Kole Doerr-Fredrickson	Policy Proposals in the US and European Union on Regulation of AI and Impact on Business World
14	-	-	-
15	-	-	-
16	STEAM	Jake Barrera, Devon Pietrini, Anna Stout, Sean Walsh	Design of a Foldable Green Housing Unit
17	STEAM	Zachary Cagiao, Kiandry Minaya, Alexander Gatsonis, Madelyn Grablauskas	Differential Modulation of Gene Expression in the Green Crab <i>Carcinus maenas</i> in Response to Hypoosmotic Stress vs Elevated Temperature
18	STEAM	Aryan Kapadia	Hooked on Development: Analyzing the Role of GBP During Zebrafish Embryogenesis
19	STEAM	Dylan Gregson	Applications of PNP Sulfonamide Groups for Ru-H-Catalyzed CO <sub>2</sub> Hydrogenation
20	STEAM	Cristian Herrera Alpizar	Nickel (II) Complexes Bearing Sulfonamide Groups on a Pincer Ligand Scaffold for Molecular CO <sub>2</sub> Reduction
21	STEAM	Will Yuchmow	Optimizing the Synthesis of [PCP]Nickel Catalysts for CO <sub>2</sub> Functionalization
22	STEAM	Andrew Le	Ligand Synthesis for Mn-Complex Catalysts in CO <sub>2</sub> Reduction
23	STEAM	Jack Tinkelenberg, Ashely Rettino	Studying electrochemical reactions of C-centered radicals for sustainable energy
24	Global Perspectives	Valerie Heifez	Breaking Bias: The Impact of Stereotypes on Cross-Cultural Leadership *
25	Global Perspectives	Elena Sretenovic	Challenges in Science Communication: Addressing Cultural and Linguistic Barriers in Biological Research
26	Global Perspectives	Annie Coppola	Impact of Bilingualism in Speech Development & Cognition
27	Global Perspectives	Autumn Banghart	Overidentification of Bilingual Students in Speech Services *

## Session 2 - Rec Center, 10:00 am - 11:00 am

#	Topic	Student Presenters	Poster Title
1	STEAM	Cecelia Lawyer	Investigating possible interactions between YqgF and known players in ribosome maturation
2	STEAM	Michael Brown	UWB Dual- Slant Polarized Radiation Reconfigurable Slot-Loaded Antenna Array
3	STEAM	Emma Route, Cameron McGovern	The Concomitant Effect of Trehalose and TFE on Protein Structure
4	STEAM	Christian Noguchi	Seasonal changes in behavioral response to territorial challenge in a migratory songbird
5	STEAM	Kendall Villalobos	Tracing the Evolutionary History of Honeysuckles (Lonicera) Using Plastid Genomes
6	STEAM	Ashley Fernandez	Honeysuckle's Hidden History: Using Nuclear DNA to Reveal Lonicera's Evolution
7	STEAM	Claire Duncovich	Temporal Differences in Prismatic and Foliated Layers in Oyster Shells
8	STEAM	Caslie Jean-Francois	Assessing the Effect of Environment Artic Snow Crab Exoskeleton Formation
9	STEAM	Muskan Saini	Orientation and Hardness of Tanner Crabs' Endocuticle
10	STEAM	Sebastian Mesa	Synthesis of a Pentadentate ligand based on 1,4,7-triazacyclononane
11	STEAM	Lindsey Hur	Blue Light and Ultraweak Photon Emissions Inducing Relaxation of Airway Smooth Muscle
12	STEAM	Madelyn Murphy	Using an in-vitro electrophysiological approach to investigate central respiratory drive in neonatal serotonin-deficient mice
13	STEAM	Matthew Logiudice	The Black-Scholes Model *
14	STEAM	Nish Shah	Short, helical anti-microbial peptides
15	STEAM	Ryley David, Vincent Artuso	Analysis of Cyclic Peptide Inhibitors for Thrombosis Initiation: Characterization and Competitive Binding Assays
16	-	-	-
17	-	-	-
18	STEAM	Kate Neal, Daniel Schiariti, Peter Solomine, Jalissa Colon	Improvements to Hoboken Terminal Corridor
19	STEAM	Sydney Crawbuck, Katie Chan	$\mu$ CURE: A course-based undergraduate research project in paper microfluidics development
20	STEAM	Kimberly Liu	Optimizing Conductive Polymer Nanofibers for Biological Sensing Applications
21	STEAM	Jordanna Barteles	Bilinear Forms and Matrices: Symmetric, Alternating, and Hermitian Structures

22	STEAM	Andrea Pintar	Jordan Canonical Form
23	STEAM	Ethan Baker	Derangements and generating functions
24	STEAM	Elijah Berezny	Polynomial Interpolations
25	STEAM	Marco Cortez	Enhanced Equity Calculation in No-Limit Texas Hold'em
26	STEAM	Virginia Iannello	Quotient Spaces
27	STEAM	Patrick Kline	The Math Behind the Discrete Fourier Transform
28	STEAM	Ileana Gonzalez, Rebecca Guloy	Investigating neuronal role for CCPP-1 in brood size maintenance in <i>C. elegans</i> *
29	STEAM	Sarah Jardim, Bella Jacobs	Exploring the CCPP-1 fertility defect: a cilia connection?
30	STEAM	Aliyah Siddiqui	Maize CYP72A124 Enhances Cold Stress Tolerance *
31	STEAM	Kyla Devlin	Debunking the Bunk Bed: "How Hypergraphs Put the Conjecture to Rest"
32	STEAM	Manasvi Mamilla	Collective Behavior of Fish Schools
33	STEAM	Jack Gonzalez	Chaos and Lorenz
34	STEAM	Lindsay Carr	Paradoxes and Probabilities: A Study of the Monty Hall Problem and Beyond
35	STEAM	Emily Harms, Jon Spricigo, Calista Toussas, Maria Owens	Plasma Synthesis of Silver Nanoparticles in an Ionic Liquid

### Session 3 - BSC 100, 2:30 pm - 3:30 pm

#	Topic	Student Presenters	Poster Title
1	Human Experience	Trevor Booth	Dystopia inside of Literature and Media
2	Human Experience	Mary Ann Lopes	Melville, Disability, and Neurodiversity *
3	Human Experience	Isabel Lindsay	Sonny's Fight Against the Future
4	Human Experience	Vincent Chang	Jane Austen and Contemporary Scholarship
5	Human Experience	Kimberly Marrinan	Jane Austen and Contemporary Scholarship
6	Human Experience	Olivia Nguyen	Jane Austen and Contemporary Scholarship
7	Human Experience	Mateo Calderon	Field Methods and Archaeological Analysis of the William Green House *
8	Human Experience	Maura Cummings	Skeletal Analysis of Human Remains from an Anatomical Supply Company: Results and Ethical Considerations for Anatomical Legacy Collections
9	Human Experience	Ajax Genzano	Written in Slate: The Use of Slate Pencils at the William Green House *



10	Human Experience	Ryan Kitto	Butcher Marks and Labor Force: A Zooarchaeological Study of the William Green Plantation
11	Human Experience	David Kraidman	Bricks of Change: Can the quantification of brick patterns help explain cultural or economic change in colonial New Jersey?
12	Human Experience	Laila Moore	HE WOKE UP DEAD: African American Funerary Traditions
13	Human Experience	Michael Villanella	Lenape Stone Axes: An Analytical Study of Native American Ground-Stone Tools
14	Human Experience	Mackenzie Bangerter	The Impact of Multiple Perpetrators on Eyewitness Memory
15	Environment & Health	Chloe Burke, Maria Hourihan	A (Phone) Call to Action: How New Jersey's A3277 Can Prevent Hot Car Deaths
16	Environment & Health	Tanvika Gudisey, Julian McGrane, Gabriella Salmeron	Food Insecurity as a Social Determinant of Hypertension: A Community Health Assessment in Southern New Jersey
17	Environment & Health	Simranjot Mann	The Bonner Health Initiative at TCNJ: Developing a Health Promotion Program to Empower Community Health ^
18	Social Justice	Jenna Needham	Beyond Charisma? Rethinking César Chávez and UFW Mobilization During the Trump Presidency
19	Social Justice	Michelle Vazquez	Empowerment in Action: The New Jersey Alliance of Immigrant Justice
20	Social Justice	Gabriella Chipelo	A Sociological Analysis of the Land Back Movement and Indigenous SMOs
21	-	-	-
22	Social Justice	Jennifer Castro, Matthew Yuro	First Generation College Student Success Through the ROSCOE Educators Program
23	-	-	-
24	Social Justice	Braedon Serido	Unjustified Police Killings
25	Social Justice	Joley Raposas	Calling All Autistic Feminists: Locating Neurodivergent Presence in Feminist Spaces
26	-	-	-
27	Social Justice	Jared Williams	Beyond the Score: Why Standardized Tests Should No Longer Determine College Admission ^
28	STEAM	Kyrillos Amin	Secrets in the Clay: Exploring Colonial-Era Pipes with Scanning Electron Microscopy

### Session 3 - Rec Center, 2:30 pm - 3:30 pm

#	Topic	Student Presenters	Poster Title
1	STEAM	Emily Harms	Swift X-Ray Observations of Post-Starburst Galaxies
2	STEAM	Karolina Wielowski	Making Structural Biology More Tangible: Using Art as a Tool for Multimodal Exploration of Pili Structure
3	-	-	-
4	STEAM	Sammi Huang	Mutant Isolation and Stress Response in Corn Plants
5	STEAM	Sathya Kummarapurugu	Development of an Educational Tool Simulating Excitable Nerve Cells
6	STEAM	Kruti Patel	The Role of Morphology in Mate Selection of Threespine Stickleback Fish ( <i>Gasterosteus aculeatus</i> )
7	STEAM	Brianna Daley	Investigating the Role of Phenotypic Plasticity in Mate Choice and Speciation in Threespine Stickleback Fish
8	STEAM	Molly Nirschl, Stephanie Salvanto	Determining the Effects of Preservation Methods on the Prismatic and Foliated Layers of Oysters
9	STEAM	Ellen Norris	Analysis of Gene Expression in Zebrafish during Somite Formation
10	STEAM	Julia Roessler	Analysis of Huluwa Expression and Poly-A Tail Status in Early Cell Development in Zebrafish
11	STEAM	Ashley Salguero, Drew Beebe-Clark	Analysis of Polyadenylation of Maternal mRNA in Zebrafish
12	STEAM	Joanna Tango	Analysis of Zsqdl Gene Family during Zebrafish Embryogenesis: From an Evolutionary Perspective
13	STEAM	Hannah Fuschetto	Progress Towards the Dibromination of Acridine
14	STEAM	Sean Sprague, Joaquin Howard	HAT Equilibrium Studies and DFT Analysis of Ru-acetylide and allenylidene complexes
15	STEAM	Jack Centrelli	Investigating the Relationship between Glutamylation and Microtubule Severing Enzymes
16	STEAM	Michael Gallo, Robert Young, Adam Mzili	Design and Synthesis of Transition State Analog Inhibitors for Insect Isoprenoid Substrates
17	STEAM	Michael Wu, Katelyn Gaulin	Properties of Type 1 & Type 2 Farnesyl Diphosphate Synthase of the Armyworm Moth

18	STEAM	Daniel Maffei, Joe Cafiero, Andrew Fernandez	Applications of Quick Action Mechanisms
19	STEAM	Tadas Glebavicius, Alfred Nanni	Assistive Robotic Soft Hand
20	STEAM	John Supple, Joseph Cinque, Ryan Phillips, Jonathan Jordan	Autonomous Boat Docking System
21	STEAM	Isabella Testa, Laxmi Gajera, Esther Deravil, Jorge Urbano, Greta Lopez	ArthroRecover: Knee Scar Tissue Rehabilitation Device
22	-	-	-
23	STEAM	Devarshi Patel	Growth rate dynamics in three-spined sticklebacks
24	STEAM	Panayiotis Papamichail, Nathan Inyang	Optimizing Encapsulation Process of PDMS Microfluidic Devices
25	-	-	-
26	-	-	-
27	STEAM	Marco Guadagno, Quinn Astin, Rudra Mehta	2-D Morphometric Analysis of Four Species of Atlantic Slope Lamprills
28	STEAM	Talha Murad	A Low-Profile Radiation-Reconfigurable Aperture-Shared Antenna Array for Millimeter-Wave and Sub-6 GHz Applications *
29	STEAM	Ines Dominique	Unraveling the Threads: Chromatin's Role in RNA splicing *
30	STEAM	Caroline O'Rourke	Not Like Other Prions: The Role of [PSI+] in Genetic Regulation and RNA Splicing *
31	STEAM	Ria Patel	Folded and Spliced: How Beneficial Prions and Mud2 Shape Gene Expression in Yeast
32	STEAM	Joseph Restan, Uma Kuwar, Nikita Sawant, Luca Bottita	Take the RSC- Regulation of Splicing by Chromatin Remodelers in Saccharomyces Cerevisiae

### Session 4 - BSC 100, 3:45 pm - 4:45 pm

#	Topic	Student Presenters	Poster Title
1	Environment & Health	Heba Baig, Malakah Khadam, Elyse Ryan, Radhika Vyas, Simranjot Mann, Rohan Jaindari	Reducing Vaccine Hesitancy Among Parental Decision-Makers in an Urban Indian Community
2	Environment & Health	Tara Richardson	The Role of Cultural Relevance in Prevention Programs & Youth Well-Being *
3	Environment & Health	Simranjot Mann, Katherine Colon, Blessing Chidi King, Sarah Manaois, Thomas Aleta	The Effects of Sleep on Academic Performance Amongst College Students
4	Environment & Health	Tanvika Gudisey, Nimra Nadeem, Angel Damtey, Tariah Pitts	Centering Voices: Understanding Doula Perspectives Through Survey Data
5	Management & Communications	Madelyn Saltstein, Samantha Messler, Shaun Cannone, Gabriela Gamboa	Algorithmic Decision-Making in Business *

6	Environment & Health	Laura Barrett, Yamilet DeAvila, Samantha Portella, Donika Begolli	Algorithmic Decision Systems and Mental Health
7	Management & Communications	Emma Lubrano Lavadera, Lauren Mann, Ariana Materia , Ava Gehman	Algorithmic Decision Systems (ADS) in Special Education
8	Environment & Health	Renee Bernabe, Tomas Hernandez-Webster, Lauren Kuczmarski, Kaitlyn Ryan	Algorithmic Decision Systems in Healthcare
9	Environment & Health	Ryan Thalwitzer	The COVID-19 Pandemic and Mental Health: An Analysis by Income
10	Environment & Health	Sarah Neil	Student-based Strategies for Monitoring Bird Populations at TCNJ (Campus as a Living Lab)
11	Environment & Health	Vincent Baracia, Miranda Peer, Alexa Revill	Climate Change Awareness and Action: A Survey of TCNJ Students' Knowledge and Perspectives
12	Environment & Health	Jessica Lee, Sky Kwak, Sarang Sharma, Emily Guzman, Aliyah Beckford	HPV Awareness and Knowledge in College Students
13	Environment & Health	Haneefah Muhammad, Emily Reconco, Anna Zaluska, Kate Clifford	Do Colleges Offer Quality Mental Health Services?
14	Environment & Health	Robert Deen, Andrea Sarris, Josie Kelly, Emily Ralston	Increased use of Anxiolytic Medication in High School Students Post COVID
15	Environment & Health	Harman Kaur, Rayhanah Ahmed, Nayanka Cajuste, Priti Patel	Mindfulness Meditation in College Students with Anxiety
16	Environment & Health	Kaitlyn Sabat, Tyler Conn, Diya Shah , James Quincy	Medication Safety in Patients with Limited English Proficiency *
17	Environment & Health	Molly Bossdorf, Lea Martin, Caroline Rebele, Melanie Rottkamp, Tirso Ballesteros	The Effects of Technology Use Before Bed on Sleep of College Students
18	Environment & Health	Lauren Zubrzycki, Emma Colucci , Marielle Ibarreta, Hannah Lim, Kaelan Montesinos	Associations Between Bullying and Risk for Eating Disorders in Adolescents *
19	Environment & Health	Caroline Dowd, Mary Elton, Allison Begos, John C. Pollock, Christopher DeSantis	Nationwide Multi-city Media Coverage of Abortion Access: Community Structure Theory, Vulnerability, Political Partisanship, Health Access, and Belief Systems *
20	Environment & Health	Destinie Nodarse, Kayla Woods, Albanie Brown, Christopher DeSantis, Caroline Dowd	Nationwide Multi-City Media Coverage of Climate Change: Community Structure Theory, Political Partisanship, Vulnerability, and Parental Responsibility
21	Environment & Health	Samyuktha Senthil, Yamilet DeAvila, John C. Pollock, Roman Fabbriatore	Cross-National Media Coverage of Pandemic Mental Health: Community Structure Theory, Female Privilege and Vulnerability, and Resource Privilege *

22	Environment & Health	Emily Ferrer , Victoria Perez, Greta Bush	Cross-National Media Coverage of Human Trafficking: Community Structure Theory, Female Empowerment and Female Vulnerability
23	Environment & Health	Jessica Cichino	Impacts of Anxiety on Speech Disorders
24	Environment & Health	Jenna Fitzgerald, Mollie Czopoth, Adrianna Pagnillo, Emma Simpson	A Heart-Smart Life: Building Better Habits to Combat Cardiac-related conditions and Heart Disease
25	Human Experience	Brian De Sousa	Black Northerners Reaction to Southern Terror during Reconstruction
26	Human Experience	Jacob Iacullo	Law and the nonidentity problem *
27	Human Experience	Alyssa Fleming	Supporting Oral Reading Fluency Through Morphology Over Zoom *
28	Social Justice	Briana Keenan	Cultural competencies and the practice of speech-language pathologists
29	Human Experience	Youstina Hana	Exodus Echoes: Decoding Egyptian Coptic Migration Through Mubarak and Sisi

#### Session 4 - Rec Center, 3:45 pm - 4:45 pm

#	Topic	Student Presenters	Poster Title
1	-	-	-
2	STEAM	Michael Coty	PWA Development for TASK-Bonner
3	STEAM	Brielle Damiani	ASL Recognition using Location Parameter *
4	STEAM	Kaleb Felsenstein, Matthew Hengey, Michael DiRienzo	JFK Memorial Bridge, Route 152 and Ocean City-Longport Bridge Area Redesign
5	STEAM	Benjamin Fryc	Enhancing navigation in indoor environments for persons with visual impairments through a pedestrian dead reckoning system.
6	STEAM	Patrick Frawley, Jayson Schmidt, Ryan Rosenthal, Nicholas Rocco	Redesign of US Route 1 Corridor at Bakers Basin Road
7	STEAM	Mohammed Islam	Using LLM's for Comprehending Cybersecurity reports
8	STEAM	Ronny Jaramillo	Backend Development of a TASK Volunteer Training Application in Collaboration with the TCNJ Bonner Institute
9	STEAM	Joseph Lucero-Pineda	Development of a beacon-based Android app for persons with visual impairments for their indoor wayfinding
10	STEAM	Nicholas Merritt	Analyzing the Propagation of Collaborative Project Ideas Through Visualization Algorithms
11	STEAM	Anish Saravanan	Implementing Automated GRC for Cloud Computing Components

12	STEAM	Ethan Weiss	Jobson Enhancement Project
13	STEAM	Konrad Wnorowski	Implementing SHA-3 with Grovers Algorithm
14	STEAM	Jules Boyle	The Data Behind the Rides: Visualizing PikeRide Data with SQLite3 and Python *
15	Social Justice	Caitlin Schwarz, James Cafiero	The Design of a Wearable Notifier for Deaf and Hard-of-Hearing individuals to Replace Household Audio Cues
16	STEAM	Peter Robinson	The Design of a Variable Bevel Angle Jig to Improve Chisel Maintenance.
17	STEAM	Tyler Golisano	The Design of a Strike Signal on Sabre Grips to Help Fencers Maintain Focus on their Opponents
18	STEAM	Joseph Halpin	Automated Feeder to Manage Weight in Dogs
19	STEAM	Adam Cunard	Automated 3D Print Removal: A Remotely Operated Solution for Continuous Printing
20	STEAM	Logan Hinds, Joe Cipolla	The Design of a Novel Traffic Light System to Improve Signal Recognition in Busy Intersections
21	Social Justice	Uma Kuwar	Transnational Feminist Approaches in Analyzing Preventative Measures to Maternal and Neonatal Healthcare in Uttarakhand, India *
22	STEAM	Louis Turner, Antonio Gonzalez, Daniel Geissler, Michael Harrison	Repair and Rehabilitation of County Route 626 in White Township, NJ
23	STEAM	Laylah Burke	Vision-Based Musical Conducting Analysis
24	STEAM	Pierce Rubenstein, Vaishnavi Adusumilli, Mohamed Eladawy, Kyle Luis	NASA Human Lander Challenge: Cryogenic Orbital Siphoning System (CROSS)
25	STEAM	Jakob Ramos, Andrew Byrne, David Cardenas, Ethan Moyer, Matthew Nagy	AISC/ASCE Student Steel Bridge Competition
26	STEAM	Rachel Post	"Investigating Vibrational Modes of Cereulide Toxin via Raman Spectroscopy and Density Functional Theory".
27	STEAM	Melody Lin	Steered Molecular Dynamics and Further Investigation of ExsY Disulfide Bonding
28	STEAM	Daniela Agne, Sara Kuwar	Shell shocked! Computational modeling and steered molecular dynamics of barnacle bsf protein
29	STEAM	Priyanka Chakrabarti	Weaving the story of CS20 pilus stability one strand at a time
30	STEAM	Nicole Rojas	Apple of my eye: Uncovering the core of bacterial pilus resistance to environmental stresses using molecular simulations *
31	STEAM	Joseph McGowan, Alberto Thomas	Polynomial Chaos Expansion and Surrogate Models

32	STEAM	Julien Carraha	Nash Equilibrium in Imperfect Information Games
33	STEAM	Antonio Madrigal	Signal Exploration Through the Fourier Transform
34	STEAM	Jed Scratchard	Bifurcation Theory
35	STEAM	Riley Stelltano	A Mathematical Approach to Social Choice *
36	STEAM	Sydney Riccardi	Backpropagation in Neural Networks
37	STEAM	Isabella Carmona Ramirez	Exploring Optimization in Machine Learning with Gradient Descent
38	STEAM	Josh Fox	Optimization: The Simplex Method
39	STEAM	Jaclyn Lahey	The Poisson Process and its Application to Hurricane Modeling
40	STEAM	Anthony Giorgi, Ethan Earley, Rachel Alecci, Olivier Duverneau, Zach Hochheiser	ASCE Concrete Canoe Competition
41	STEAM	Lucas Franco	Vision-Based Robot Control for Human Robot Interaction
42	STEAM	Milian Ingco	SightBySound: Transforming Stereo Vision into Audio using Hilbert Curve
43	STEAM	Oliver Li, Ellie LoPresti	Concentration-Dependent Effects of TFE, Pluronic F-127, and SDS on G3LEA Protein Folding and Secondary Structure