

Poster Presentations

- | # | <u>Student Name(s)</u> | <u>Faculty Advisor(s)/Department</u> |
|----|---|--|
| 1 | Matthew Simms
<i>Meteorological Conditions Affecting Landbird Migratory Stopover in Northeastern Pennsylvania</i> | Dr. Robert J. Smith/Biology |
| 2 | Nathaniel Smith
<i>Navigational Failures in <i>Camponotus floridanus</i> due to Agonists/Antagonists of Serotonin</i> | Dr. Marc Seid/Biology |
| 3 | Taylor Moglia
<i>Analyzing Developmental Exposure Impacts of SSRIs, Fluoxetine and Sertraline, on Zebrafish Embryos Using Mass Spectrometry Imaging</i> | Dr. Katherine Stumpo and
Dr. Michael Fennie/Chemistry |
| 4 | Piper Yerkes
<i>The Effects of Melatonin on the Locomotion and Circadian Rhythm of <i>Camponotus floridanus</i></i> | Dr. Marc Seid/Biology |
| 5 | Katherine Welby
<i>Mental Health in NCAA Division III Athletes</i> | Dr. Mary Troy/Counseling and Human Services |
| 6 | Chutikarn Chantavoralak
<i>Development of a Cascade Approach to Tetraarylmethanes</i> | Dr. Arthur Catino/Chemistry |
| 7 | Cloe Capalongo
<i>Sizzling salamander: Thermal physiology of <i>Plethodon cinereus</i> from burned and unburned habitats</i> | Dr. Vincent Farallo/Biology |
| 8 | E Kerr & Ashley Dugasz
<i>Historical Literature Review: Occupational Therapy, Medicine, and Queer Identity</i> | Dr. Marlene Morgan/Occupational Therapy |
| 9 | E Kerr
<i>trans [re]incarnation - [re]born to this body</i> | Dr. Billie Tadros/English and Theatre |
| 10 | Michael Quinnan
<i>Complex Network Analysis of the Spread of COVID-19 in Northeastern Pennsylvania</i> | Dr. Murong Xu/Mathematics |
| 11 | Emma Nessel
<i>Transmission of gender stereotypes from parent to child through play</i> | Dr. Emily J. Hopkins/Psychology |

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12	John Nelson <i>The Robotic Iconographer: An Investigation and Robotic Recreation of Scranton's Religious Iconography</i>	Dr. Steven Dougherty/Mathematics Mr. Majid Mokhtari/Physics and Engineering
13	Ashley Chrysler & Maria Rocha <i>Psychologists Practicing Psychotherapy: Then and Now</i>	Dr. John Norcross/Psychology
14	Hailey Dufour, Clara Twill & Marykate DeNotaris <i>Partnering with Community to Address the Health Literacy Needs Surrounding Autism</i>	Dr. Debra Fetherman/Health & Human Performance
15	DPT Projects Summary <i>Summary of DPT Faculty-Directed Student Research Projects for Class of 2023</i>	Dr. Renee Hakim/Physical Therapy
16	Emily Amershek <i>Collateral Damage: Analyzing the Harmful Effects of America's Cash Bail System and Common Media Misconceptions About Bail Reform</i>	Attorney Jason Shrive/Criminal Justice, Cybersecurity, & Sociology
17	Emily Amershek <i>SCOTUS, Abortion, and Originalism: Analyzing Constitutional Theory in the Dobbs v. Jackson Opinion that Overturned Roe v. Wade</i>	Dr. Matthew Meyer/Philosophy
18	Elise Westhafer <i>Regeneration of the Optic Tectum in Juvenile Amblystoma Mexicanum</i>	Dr. Robert Waldeck/Biology
19	Hannah Maynard <i>Comparison of the Locomotion Style and Anatomy of the Invasive Earthworms Lumbricus terrestris and Amarynthes agrestis</i>	Dr. Janice Voltzow/Biology
20	Angela Hudock <i>Toward a Novel Synthesis of Thiocyano-Substituted Tryptophan</i>	Dr. Michael Fennie/Chemistry
21	Simal Sami <i>Toward Developing an Algorithm for Separation of Transmitters of High Frequency Chirp Signals of Opportunity for the Purpose of Ionospheric Sounding</i>	Dr. Nathaniel Frissell/Physics & Engineering

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|----|---|---|
| 22 | Teleri Broomhead
<i>An Analysis of Remote Working Habits</i> | Professor Nancy Cummings/Management,
Marketing, and Entrepreneurship |
| 23 | Morgan Albro, Mary Bunone,
Kristine Fusaro, Sinéad Girdusky,
Rachel Harrington, Emma Kiernan,
Jocelyn McCauley & Amanda Grace Ruiz
<i>Practicing Occupational Therapist Self-Reported Levels of Knowledge About and Confidence
Using Population Health Concepts: A Mixed Methods Explanatory Sequential Study</i> | Professor Jennifer Whittaker/Occupational Therapy |
| 24 | Gabrielle Allen & Sophia Visaggio
<i>A Winning Combination: The University of Scranton Occupational Therapy Students and
NeighborWorks® of NEPA</i> | Dr. Marlene Morgan/Occupational Therapy |
| 25 | Muhammad Shaaf Sarwar
<i>Structure of the Milky Way Galaxy Using Cold Hydrogen Radio Data</i> | Dr. Nathaniel Frissell and
Dr. Mary Lou West/Physics and Engineering |
| 26 | Courtney Zaic
<i>Female House Wren Brooding Behavior is Modulated by Female Aggression, Mate
Provisioning, and Nestling Size</i> | Dr. Cara Krieg/Biology |
| 27 | Julia Turnak
<i>The Effects of Egg Brightness and Female Aggression on Male Feeding Investment</i> | Dr. Cara Krieg/Biology |
| 28 | Jena Guilfoyle
<i>Elizabeth Cary: A Conversion Story</i> | Dr. Robert W. Shaffern/History |
| 29 | Maria Rocha
<i>20 Years of Career Seminar in Psychology: What Worked and What Didn't</i> | Dr. John C. Norcross/Psychology |
| 30 | Zoe Honney, Jessica Sommo &
Andrew Fernandez
<i>Artificial Intelligence (AI) bot ChatGPT in higher education and cyber-situational crime
prevention (Cyber-SCP) strategy</i> | Dr. Sinchul Back/Criminal Justice, Cybersecurity
& Sociology |

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|----|---|---|
| 31 | Robert Troy & Aiden Szabo
Electrostatic and Quantum Size Effects in Short Channel Mosfets | Dr. Argyrios Varonides/Physics and Engineering |
| 32 | Claire Sunday
<i>Free Will: What, Why, and How</i> | Dr. Christopher Hauser/Philosophy |
| 33 | Maame Addison
<i>Effects of Propylthiouracil (PTU) on the Tyrosine Hydroxylase mRNA Expression in Zebrafish Larvae</i> | Dr. Jong-Hyun Son, Dr. Robert Waldeck & Dr. Marc Seid/Biology |
| 34 | Maitree Patel
<i>Prevalence of Blood Parasites in Gray Catbirds in relation to gender and season</i> | Dr. Robert Smith/Biology |
| 35 | Fione Evans
<i>Digging in: The effects of soil pH on the metabolic rate of Plethodon cinereus</i> | Dr. Vincent Farallo/Biology |
| 36 | Jaclyn Santos
<i>First record of the genus Zelonina in an avian host.</i> | Dr. Spencer Galen/Biology |
| 37 | Darby Bennett & Stephen J. Butler
<i>Unilateral multimodal sensory deprivation in callow Camponotus floridanus</i> | Dr. Marc A. Seid/Biology |
| 38 | James Lanning
<i>Analysis of Ideal Josephson Junction Lumped Circuits</i> | Dr. Argyrios Varonides/Physics and Engineering |
| 39 | Haralampos Varonides
<i>Visualizing Three Different Methods of Matrix Diagonalization</i> | Dr. Juan Serna/Physics and Engineering |
| 40 | Matthew Bispo
<i>Characterizing genome edited Neuro2a cell lines using Sanger Sequencing approaches</i> | Dr. Ashley Driver/Biology |
| 41 | Nicholas Capelle
<i>Assessing the Effect of Climate Change on Gray Catbird Feather Coloration: An Analysis of Avian Phenotypic Traits</i> | Dr. Robert J Smith/Biology |

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|----|---|--|
| 42 | Sofia Zingone
<i>Using CRISPR-Cas9 genome editing to generate Hsd17b7-deficient NIH3T3 cells</i> | Dr. Ashley Driver/Biology |
| 43 | James Russo
<i>Investigation of two prosthecae morphotypes in Prosthecomicrobium hirschii</i> | Dr. Amelia Randich/Biology |
| 44 | Clara Downey
<i>Missing and Murdered Indigenous Women: The Impact of Historical Policy</i> | Dr. Adam Pratt/History |
| 45 | Veronica Romanek
<i>Climatology of Ionospheric Variability with MSTID Periods Observed Using Grape v1 HF Doppler Receivers</i> | Dr. Nathaniel Frissell/Physics and Engineering |
| 46 | Jillian Haller
<i>Zinc Sulfate as a Neurotoxin: Anosmia-induced Anxiety-like Behavior in Adult Zebrafish</i> | Dr. Jong-Hyun Son/Biology |
| 47 | Emma Trautfetter
<i>The Impact of an Empathy Manipulation on Juvenile False Confessions</i> | Dr. Joshua Reynolds/Psychology |
| 48 | Emily Sanchez
<i>Does Liberal Education Belong in Elementary Schools?</i> | Dr. Duane Armitage/Philosophy |
| 49 | Tabitha Berger
<i>Synthesis of 2-Thiocyano-Tryptophan as a Spectroscopic Reporter</i> | Dr. Michael Fennie/Chemistry |
| 50 | Francis Lynch
<i>Centrifugal Force as a Control Mechanism for Metal-Assisted Chemical Etching of Silicon</i> | Dr. George Patrick Watson,
Singh Center for Nanotechnology,
University of Pennsylvania |
| 51 | James Hornickle
<i>Reversible Oxidations of Alpha-Enolase Thiols Support the Physiological Relevance of Redox Regulation in the Healthy Brain</i> | Dr. Timothy Foley/Chemistry |
| 52 | Devang Patel
<i>Computational Investigations of the Electrochemical and Thermochemical Transformations of Pinene</i> | Dr. Nicholas Sizemore/Chemistry |

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#	<u>Student Name(s)</u>	<u>Faculty Advisor(s)/Department</u>
53	Gerard Piccini <i>Development of a low-cost low-power ionosonde</i>	Dr. Nathaniel Frissell, Dr. Robert Spalletta, & Dr. Robert McGwier/Physics and Engineering
54	Devin Diehl <i>PyLap: An Open-Source Python Interface to thePHaRLAP Ionospheric Raytracing Toolkit</i>	Dr. Nathaniel Frissell/Physics and Engineering
55	Kathryn Regan <i>Exercise on Cognitive Function</i>	Dr. Joseph Pellegrino, Dr. Janice Voltzow & Dr. Declan Mulhall/Biology
56	Grace Wenzel <i>Effect of viburnum beetle invasion on feather growth in Gray Catbirds (<i>Dumetella carolinensis</i>) – an update</i>	Dr. Robert Smith/Biology
57	Logan Sellam <i>Quantum Rings, interference and tunneling in modern short-channel MOSFETs via the Aharonov-Bohm effect</i>	Dr. Argyrios Varonides/Physics and Engineering
58	Logan Sellam <i>The Aharonov-Bohm Effect: discovery, its electromagnetics and its quantum mechanics</i>	Dr. Argyrios Varonides/Physics and Engineering
59	Holly McCarthy & Caitlin Schreiber <i>An Exploratory Investigation of the Effects of the Pandemic on Retailing and Consumer Behavior</i>	Dr. Peter Andersen/Management, Marketing, and Entrepreneurship
60	Jacqueline Savage <i>Haemosporidian Diversity in Alaskan Birds</i>	Dr. Spencer Galen/Biology
61	Anthony Capozucca <i>Difficult Airway Management during General Anesthesia in Robotic Surgery for Endotracheal tube Dislodgement</i>	Dr. Ann Culp/Nursing
62	Eva Kurilla <i>The relationship between the parental investment of both sexes and the number of nestlings in <i>Troglodytes aedon</i></i>	Dr. Cara Krieg/Biology

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| 63 | Danica May Nichole Sinson
<i>The Effects of Caffeine on the Induced Cognitive Impairment of a High-fat Diet in Zebrafish Danio rerio</i> | Dr. Jong-Hyun Son/Biology |
| 64 | Francesca Fidaleo
<i>Ozone Concentration effect on Serotonin and Dopamine of Camponotus Floridanus</i> | Dr. Marc Seid/Biology |
| 65 | Astrid D'Souza
<i>Physical and Chemical Characterization of Ugandan Honey and its Comparison to Manuka Honey</i> | Dr. Gerard Dumancas/Chemistry |
| 66 | Haralampos Varonides
<i>Visualizing Three Different Methods of Matrix Diagonalization</i> | Dr. Juan Serna/Physics and Engineering |
| 67 | Hiba Muhammad, Ysabelle Reyes & Grace Washney
<i>Surprising prothecae morphotypes in Alphaproteobacteria Henriciella and Hirschia</i> | Dr. Amelia Randich/Biology |
| 68 | Maame Addison
<i>Effects of Propylthiouracil (PTU) on the Tyrosine Hydroxylase mRNA Expression in Zebrafish Larvae</i> | Dr. Jong-Hyun Son, Dr. Robert Waldeck, & Dr. Marc Seid/Biology |
| 69 | Samantha Pickering
<i>Effects of Hurricane Maria on Bat Survey Results on St. Croix, United States Virgin Islands</i> | Dr. Gary Kwiecinski/Biology |
| 70 | Conor Dougherty
<i>Novel Object Recognition Task: A Possible Memory Assay in Ants</i> | Dr. Marc A. Seid/Biology |
| 71 | Conor Kellough
<i>Constructing telescopes to photograph a galaxy</i> | Dr. Declan Mulhall/Physics and Engineering |
| 72 | Evan Hromisn
<i>Constructing a cwNMR Head with a Voltage Controlled Frequency Circuit</i> | Dr. Declan Mulhall/Physics and Engineering |
| 73 | Muhammad Shaaf Sarwar & James Lanning
<i>Measuring and Modeling Photon Diffusion in Wax</i> | Dr. Declan Mulhall/Physics and Engineering |

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| 74 | Owen Stanczak
<i>Examining Juror Opinions Between Felons and Non-Felons</i> | Dr. Joshua Reynolds/Psychology |
| 75 | Mark Watson
<i>Reproductive flexibility and growth optimization of <i>Litorimonas taenensis</i>, a unique marine caulobacter</i> | Dr Amelia Randich/Biology |
| 76 | Sarah Liskowicz
<i>Contributions of Taurine and GABA to Aggression in Zebrafish, <i>Danio Rerio</i></i> | Dr. Robert Waldeck/Biology |
| 77 | Cuong Nguyen
<i>TangerineSDR: Personal Space Weather Station</i> | Dr. Nathaniel Frissell/Physics and Engineering |
| 78 | Nisha Yadav
<i>Web-Based Application for the Visualization and Analysis of Ionogram Data Observed by GNU Chirpsounder2</i> | Dr. Nathaniel A. Frissell/Physics and Engineering
Prof. Paul M. Jackowitz/Computing Science |

Oral Presentations

Room 127

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|--------|--|--|
| 2:00pm | Joshua Vituszynski
<i>Faulkner's Frankfortian Voices: Navigating the "Bullshit" Narration of Absalom, Absalom!</i> | Dr. Joseph Kraus/English and Theatre |
| 2:30pm | Nicholas Jonas
<i>God, Courage, and Covid</i> | Dr. Patrick Clark/Theology/Religious Studies |

***THANK YOU TO ALL OF THE STUDENT SCHOLARS AND FACULTY
ADVISORS CONTRIBUTING TO THE SUCCESS OF THIS EVENT!***