

24th Annual

CELEBRATION OF STUDENT SCHOLARS

April 24, 2024 • 12:00 - 3:00 PM

Loyola Science Center Atrium

THE UNIVERSITY OF SCRANTON





The Celebration of Student Scholars is brought to you by the

Office of Research Support & Sponsored Programs

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*Thank you to all of the student scholars and faculty
advisors contributing to the success of this event!*

Poster Presentations

- | <u>Student Name</u> | <u>Faculty mentor</u> |
|---|--|
| 1. Tyler Kover
<i>Chaos Visualization Using a Mechanical Chaos Oscillator</i> | Dr. Declan Mulhall/Physics & Engineering |
| 2. My Kim Dang, Gabrielle Jamieson, Abigail Charneski
<i>Personal Statements: What APA-Accredited Programs Request</i> | Dr. John Norcross/Psychology |
| 3. Abigail Charneski, Tyler Muskey
<i>What's Required in Medical School Secondary Applications: A Systematic Review</i> | Dr. John Norcross/Psychology |
| 4. Abigail Charneski
<i>The Effects of Benzodiazepines on Learning in <i>Camponotus Floridanus</i></i> | Dr. Marc Seid/Biology |
| 5. Elif Onat
<i>Network Statistics of Two-Dimensional Foams</i> | Dr. Joseph Klobusicky/Mathematics |
| 6. Matthew Bispo
<i>Subcellular Localization of <i>Hsd17b7</i> in <i>Neuro2a</i> Cells</i> | Dr. Ashley Driver/Biology |
| 7. Gabrielle Allen, Audrey Cardone Jessica Grimsland, Michaelene Kulig, Julianna Lunt, Jillian Saltz, Alexandra Scelsi
<i>Community-Based Learning: Action Research to Explore Transformative Change in First-Year Occupational Therapy Students Awareness about Occupational Justice</i> | Dr. Patricia Wisniewski/Occupational Therapy |
| 8. Department of Physical Therapy
<i>Department of Physical Therapy Faculty-Directed Student Research Class of 2024</i> | Dr. Renee Hakim/Physical Therapy |
| 9. Eva Kierstead
<i>Investigating the Reproductive Mode and Morphology of the Marine Caulobacter Genus <i>Algimonas</i></i> | Dr. Amelia Randich/Biology |
| 10. Nolan Ramanjulu
<i>Generation of Lifeact-Green Fluorescent Protein (Lifeact-GFP) <i>Arabidopsis Thaliana</i> Plants by Recombinant DNA Technology to Visualize Actin Cytoskeleton</i> | Dr. Bibi Rafeiza Khan/Biology |
| 11. Theresa Pham | Dr. Jong-Hyun Son/Biology |

Functional Characteristics of Physioxia on the Dopaminergic Neuron Development in Developing Zebrafish Larvae

12. **Tabitha Berger** Dr. Michael Fennie/Chemistry
Synthesis of 6-Thiocyano-Tryptophan as a Spectroscopic Reporter
13. **Hiba Muhammad** Dr. Amelia Randich/Biology
Henriciella: A Genus with Multiple Reproductive Methods
14. **Alexis Angstadt, Caroline Brawley, Breanne Dolphin, Sara Dombrowski, Julia Higgins, Julia Kulpa, Cristina Rodier** Dr. Lisa Kozden/Occupational Therapy
The Effects of Neuromodulation Coaching on the Occupational Performance and Health of Medical Students
15. **Owen Stanczak, Madeline Williams** Dr. Joshua Reynolds/Psychology
Predicting perceptions of the justification of officer-involved shootings using decision trees
16. **Grace Wenzel** Dr. Robert Smith/Biology
Impact of Yearly Primary Production on Nutrition in the Gray Catbird
17. **Nicolette George, Veronica Lenox, Stephanie Patullo, Ryan Peterson, Samiel Torres** Dr. Lori Walton/Physical Therapy
Trauma (CTI), Physical Symptoms (CHIPS), Perceived Stress (PSS), Health Related Quality of Life (SF-36) & Physical Activity Behaviors (IPAQ-SF) in Resettled Bhutanese and Congolese Refugees
18. **Angeliki Trifonopoulos** Dr. Krisy Elrod/Counseling & Human Services
Unmasking Medical Trauma
19. **Abigail Vickner** Dr. S.P. Chattopadhyay/Marketing
The Impact of Social Media Marketing through TikTok
20. **Abigail Vickner** Nancy Cummings/Management, Marketing & Entrepreneurship
Abigail Vickner's Business Honors Thesis-Inquiries About Intrapreneurship
21. **Kathryn Regan** Dr. Joseph Pellegrino/Exercise Science
Effects of Exercise on Cognitive Function
22. **Fione Evans** Dr. Vincent Farallo/Biology

Digging In: The Effects of Soil pH on the metabolic rate of plethodon cinereus

23. **Caitlin Doughton** Dr. Vincent Farallo/Biology
The Effects of Alkaloid Sequestration on Poison Frog Metabolism
24. **Madelyne Gasper** Dr. Robert Waldeck/Biology
Investigating the Role of the Telecephalon on the Startle Response in Goldfish, Carassius auratus
25. **Shelby Traver** Dr. Christopher Fremaux/Philosophy
Foundations of Justice: Early Modern Philosophy's Lasting Impact on Politics
26. **Brigid Carlin** Dr. Janice Voltzow/Biology
The Rocky Intertidal of Rhode Island
27. **Conor Kellough** Dr. Juan Serna/Biology
Mitigating Error in two Half-Adders on IBM Quantum Computers
28. **Samantha Colby, Alyssa Cosklo, Grace Washney** Dr. Amelia Randich/Biology
Henricelle pelegia and henriciella mobilis unexpectedly tip-budding bacteria
29. **Emily Bannon** Dr. S.P. Chattopadhyay/Marketing
How do you make women's teams more marketable?
30. **Riley Kahill** Dr. S.P. Chattopadhyay/Marketing
What are the best and worst parts of SHS marketing? Is it an actual concept?
31. **Andrew Slevin**
Esports and its potential in marketing
32. **Michael Howard** Dr. Vincent Farallo/Biology
The Effects of an Alkaloid-Based Diet on Metabolic Rate in the Poison Frog Species Ranitomeya variabilis
33. **Emma Hughes** Dr. Vincent Farallo/Biology
The Effect of Predator Cues on the Physiology of P. cinereus
34. **Kathryn Olafson** Dr. Maria Oreshkina/Education
Teacher Retention and Burnout
35. **Rosa Azzato, Grace Clark, Elizabeth Flewelling, Lea Grant, Emerson Krasnickas, Lily Nowak, Katherine Posillico,**

- Gabrielle Timoteo** Dr. Carol Cote/Occupational Therapy
OT Students' perspectives and comparison of 3D printed, custom fabricated and prefabricated CMC splints
36. **Samantha Pickering** Dr. Gary Kwiecinski/Biology
Bat Species Richness and Activity in Northeast Pennsylvania at Lackawanna State Park
37. **Simal Sami** Dr. Nathaniel Frissell/Physics & Engineering
Observations of Solar Eclipse-Induced Variations on Ionosphere F2 Layer Critical Frequencies
38. **Charles Sylvester** Dr. Robert Smith/Biology
*Spectral and Irradiance Sensitivity of the *Neomysis americana* in the Delaware Bay*
39. **Kayla Perrong** Dr. Robert Smith/Biology
*An examination of feather coloration in fall migrating Northern Saw Whet Owls (*Aegolius acadicus*) captured in Lackawanna State Park, Pennsylvania, captured fall 2023*
40. **Hannah Maynard** Dr. Janice Voltzow/Biology
Shell strength: the might power of mussels
41. **Nicholas Tomassoni** Dr. Marc Seid/Biology
*The Neurological Effects of Erythropoietin on *Camponotus Floridanus**
42. **Siena Testa** Dr. S.P. Chattopadhyay/Marketing
The Influence of Sports Betting Advertisements
43. **Varshenne Reddi** Dr. Rose Sebastianelli, Dr. Nabil Tamimi/Operations & Analytics
Value Chain Engagement on Climate Related Issues
44. **Mary Krichbaum** Dr. Stephen Dougherty/Mathematics
A Mathematical Analysis of Godel's Ontological Proof
45. **Erin Lona, Emma Stauffer** Dr. Elizabeth Vento/Psychology
Family Environment Adjective List: Factor Analysis of a New 6-Item Scale
46. **Mario Luzuriaga** Dr. Joe Brague/Biology
Parkinson's Disease Spine Analysis in Mice
47. **Gabrielle Bingener** Dr. Jong-Hyun Son/Biology

The Impacts of Developmental Hypoxia on Dopaminergic Connectivity and Susceptibility to Substance Use Disorders

48. **Gabrielle Bingener** Dr. Billie Tadros/English & Theater
Experiences of Empathy in Patient-Centered Storytelling
49. **Dean Huber** Dr. S.P. Chattopadhyay/Marketing
Consumer Behaviors after Covid-19
50. **Miguel Ortiz** Dr. S.P. Chattopadhyay/Marketing
Is there cultural meaning in brands, and why
51. **Alexander Eriquez** Dr. Amelia Randich/Biology
*Characterization of Growth and Morphology in *Hyphobacterium Indicum**
52. **Emma Traufetter** Dr. Jill Warker/Psychology
The Effect of Event Type on False Memory in a Misinformation Task
53. **Maria Stephen** Dr. Jean Harris/Political Science, Dr. Patrick Tully/Philosophy
Interpretation of Natural Law in SCOTUS Equal Protection Cases
54. **Alexandra Burke** Dr. S.P. Chattopadhyay/Marketing
The Impact of Social Media Marketing on the Fashion Industry
55. **Robert Troy** Dr. Argyrios Varonides/Physics & Engineering
Porphyrin Based Quantum Wire Electronic Transport in Nano FET Channels
56. **Aaron Sawicki** Dr. Argyrios Varonides/Physics & Engineering
STM Cantilevers for Tunneling Measurements
57. **Spencer Goldberg** Dr. Spencer Galen/Biology
*High prevalence of haemosporidians in migratory northern saw-whet owls (*Aegolius acadicus*)*
58. **Rebecca Potter** Dr. Argyrios Varonides/Physics & Engineering
Electron Transportation via Tunneling in Quantum Dot-Based NanoFET Structures
59. **Cuong Nguyen** Dr. Nathaniel Frissell/Physics & Engineering

Software Development for the Grape Personal Space Weather Station v2

60. **Connor Perez** Dr. S.P. Chattopadhyay/Marketing
Smartphone apps and how businesses can use them to improve brand equity
61. **Miles Cook** Dr. S.P. Chattopadhyay/Marketing
Online and offline marketing in the restaurant industry
62. **Nicole Tonny** Dr. S.P. Chattopadhyay/Marketing
Differences of online and offline luxury market goods
63. **Grace McDonald** Dr. Timothy Foley/Chemistry
Investigation of Potential of Protein Hydrophobicity in the Brain
64. **Kelly Klein** Dr. S.P. Chattopadhyay/Marketing
The Effect of Demographics on Fashion Marketing
65. **Amanda Vaccaro** Dr. S.P. Chattopadhyay/Marketing
How Color Relates to Brands and Affects Sales in the Clothing Industry
66. **Erica Czerwinski, My Kim Dang,
Emily Fick, Morgan Jones** Dr. Jill Warker/Psychology
Getting the Punch Line: Effects of Verbal Working Memory on Joke Comprehension
67. **Jacob Mohring** Dr. Joe Bague/Biology
Effects of Obeticholic Acid in a Castration-based Model of Parkinson's Disease
68. **Thomas Elias** Dr. Michael Azar/Theology
Christian Resistance in the Holy Land Theological Arguments for Nonviolence
69. **Stephen Butler** Dr. Marc Seid/Biology
*Unilateral multimodal sensory deprivation demonstrates ipsilateral effects and experience-dependent development of sensory pathways in *Camponotus**
70. **Stephen Kudriavetz** Dr. Joe Bague/Biology
Using RNA-Seq to Determine How Gonadal Hormones Influence RNA Profiles in a Male and Female Mouse Model of Parkinson's Disease
71. **Ranjeeta Dhungel** Dr. Christopher Howey/Biology
Metabolic Rates of Anoles in control vs. Ambient Light at Night (ALAN)
72. **Victoria Libretti**

Identifying Opportunities for Improved Postoperative Orthopedic Patient Care in Dickson City

73. **Abby Bednarski** Dr. Janice Voltzow/Biology
Convergent evolution in the morphology of suspension-feeding gastropods
74. **Zachary Morrison** Dr. Spencer Galen/Biology
Phylogeography and Wing Morphology of the Anopheles punctipennis/perplexens Complex in the Eastern United States
75. **Kaleigh Timmons** Dr. Amanda Marcy/Accounting
The Impact of a Jesuit Education on the Production of Ethical Business Professionals
76. **Ciara Higgins** Dr. S.P. Chattopadhyay/Marketing
The COVID-19 Pandemic Related Change in Consumer Behavior
77. **Jennifer Kubik** Dr. S.P. Chattopadhyay/Marketing
Is it a good idea to use famous sports in promotion strategies?
78. **Mariam Vandewater** Dr. Marc Seid/Biology
Summer Research in Panama: A review of mating behavior in Tungara Frogs
79. **James Fox** Dr. Nathaniel Frissell/Physics & Engineering
Detection of SuperDARN-Observed Medium Scale Traveling Ionospheric Disturbances in the Southern Hemisphere
80. **Olivia Manarchuck** Dr. Robert Waldeck/Biology
Effects of Huperzine A on Learning and Memory Behaviors and Acetylcholinesterase Activity in Dubia Cockroaches
81. **Patrick Kane** Dr. Joe Brague/Biology
Developing a Female Specific Mouse Model for Parkinson's Disease Using a High-Sensitivity Neural Network
82. **Elise Koegler** Dr. Emily Hopkins/Psychology
Does the Familiarity of Religious Events Affect Possibility Judgments?
83. **Brian White** Dr. Spencer Galen/Biology
High Prevalence of Wolbachia in a population of the mosquito coquillettidia perturbans
84. **Kathleen Holdsworth, Nicole Kenny, Meredith Lee, Kelly McGovern, Grace Scott Emily Umstadt** Dr. Chandra Nealon/Occupational Therapy

OT Fieldwork & Global Engagement in the Dominican Republic

85. **Julia Kopf** Dr. S.P. Chattopadhyay/Marketing
What is the impact of goods labels on the clients' purchase behavior?
86. **Katherine Harren, Jocelyn Kugler** Dr. Chandra Nealon/Occupational Therapy
OT Sophomore Community Based Learning Projects – Anatomy & Neuronatomy Across the Lifespan
87. **Gabriella Priolo** Dr. S.P. Chattopadhyay/Marketing
Women in sports and how they advance sports marketing
88. **Julia Swistak** Dr. S.P. Chattopadhyay/Marketing
Analysis on promotion strategies for online food shopping
89. **Cabre Capalongo** Dr. Robert Smith/Biology
*Blood parasites and white cell blood count in Northern Saw-whet owls (*Aegolius acadicus*) at Lackawanna State Park*
90. **Ethan Francois**
Parasitic Intervention within the Red Blood Cells of Bird Species
91. **Martin Stivala** Dr. Jong-Hyun Son/Biology
Characterization of Ascending Dopaminergic Neuron Connectivity to the Telencephalon in the Adult Zebrafish Brain
92. **Dominick Spera** Dr. Timothy Foley/Chemistry
Intramolecular disulfide bonds in enzymes as intrinsic probes for cell redox state
93. **Alison Samudio** Dr. Susan Poulson/History
Culture Shock and Awe: The Ramifications of Cultural Ignorance in the United States Military
94. **Karishma Suchit** Dr. Robert Smith/Biology
Blood Parasitology in Migrating Gray Catbirds
95. **Jordan Badman, Joshua Hotchkiss** Dr. Joe Brague/Biology
Parkinson's Disease Across the Estrous Cycle in Female Mice
96. **Devang Patel** Dr. Nicholas Sizemore/Chemistry
Ab Initio Mechanistic Investigations of the Electrochemical and Thermal Transformations of Pinene

97. **Mark Watson** Dr. Amelia Randich/Biology
Investigating Morphology and Reproductive Strategies in Litoromonas Taenesis and Fretibactor rubidus, putative tip-budding alphaproteobacterial
98. **James Hankee** Dr. Nathaniel Frissell/Physics & Engineering
Communication Systems
99. **Arissa Chambers**
Effect of Group Size on Bumblebee Metabolic Rate
100. **Madison Brown** Dr. Robert Spalletta/Physics & Engineering
Novel Prosthetic Hand Design
101. **Liam Sayre** Dr. S.P. Chattopadhyay/Marketing
How brand value affects consumer decisions
102. **Mary Kate McDade** Dr. S.P. Chattopadhyay/Marketing
Market Segmentation and its Effect on Sales Channels
103. **Shannon Toolan** Dr. S.P. Chattopadhyay/Marketing
The Impact of Greenwashing on Consumers
104. **Hieu Nguyen** Dr. S.P. Chattopadhyay/Marketing
Emotional Branding: The Role of Emotional Engagement in the Modern Marketplace
105. **Gianna Detorie** Dr. S.P. Chattopadhyay/Marketing
Trends of NIL Deals in Digital Marketing
106. **Matt DiGennaro** Dr. S.P. Chattopadhyay/Marketing
The power of customization in e-commerce and how it affects sales
107. **John Molinelli** Dr. S.P. Chattopadhyay/Marketing
AI and Its Effect on Sports
108. **Grace Washney** Dr. Amelia Randich
Surprising Prosthecate Morphotypes in Marine Caulobacter Henriciella litoralis

Oral Presentations – LSC 127

Student Name

Faculty Mentor

12:10 p.m. Alexandra Karpiak

Dr. Barbara Buxton/Nursing

Investigating Patient-Healthcare Provider Relationship as a Protective Factor in Cases of Maternal Postpartum Depression

12:35 Faith Montagnino

Dr. Hank Willenbrink /English &
Theater

“You are making a scene, woman.” Euripides’ Medea and Affect Theory

1:00 Shelby Traver

Dr. Christopher Fremaux/Philosophy

Foundations of Justice: Early Modern Philosophy’s Lasting Impact on Politics

1:25 Maria Stephen

Dr. Jean Harris/Political Science,
Dr. Patrick Tully/Philosophy

Interpretation of Natural Law in SCOTUS Equal Protection Cases

1:50 Dimitri Bartels-Bray

Dr. Joseph Kraus /English & Theater

Essays on Transitioning

2:15 Jamie Santiago Gonzalez

Dr. Andrew LaZella/Philosophy

Paradox of Remembrance

2:40 Todd Monahan

Dr. John Ruddy/Economics, Finance

A 6-Year Analysis of Technology Funds Pre, During and Post-Pandemic

The Annual Celebration of Student Scholars at The University of Scranton celebrates the tremendous scholarly contributions of undergraduate and graduate student scholarship, community-based learning and co-curricular community engagement experiences by featuring their work through either a physical display of posters and/or oral presentations.

Our participants receive focused mentoring from faculty in research, community-based learning, or co-curricular community engagement, and represent our College of Arts & Sciences, Panuska College of Professional Studies and Kania School of Management, through a wide variety of disciplines.