

1: Alex Iannone

Characterization of Hyphomonas adhaerens

Dr. Amelia Randich

2: Ana M. Duque

Echoes Of The Drum

Dr. Juan Serna

3: Nicholas Carr

Cancer Parkinson's paradox

Dr. Joe Brague

4: Matthew Rakauskas

Properties of Probability-based Particle Collisions

Dr. Joseph Klobusicky

5: Therese Shimkus

Free Will, Sin, and the Saints: The Problem of Heavenly Freedom

Dr. Christopher Hauser

6: Therese Shimkus

Natural Law and the Death Penalty

Dr. Patrick Tully

7: Julianne May

Detection of Microplastics in the Gastrointestinal Tracts of Avian Specimens

Dr. Robert Smith

8: Kathleen McKillop

Prevalence of the Endosymbiont Wolbachia in the Invasive Spotted Lanternflies

Dr. Michael Hague

9: Gerald Donahue, James Lundari

Dr. Joe Brague

Castration-Induced Nigrostriatal Deficits Are Linked to Loss of Mature Spines in the Dorsal Striatum.

10: Mario Fazio

Dr. Mojib Saei

Modifications to a leaf blower: combining 3D printing with Venturi effect

11: Brooke Chapple

Dr. Mojib Saei

Smartcuff for Blood Clot Detection

12: Erica Czerwinski

Dr. John Norcross

The Probability of Acceptance and Full Funding at APA-Accredited Doctoral Programs in Clinical Psychology: An Inverse Relationship

13: Anna Kowalewski

Dr. Patricia L. Wright

Risk Perception Misperception: Opiophobia among informal caregivers

14: Grace Lloyd

Dr. Marc Seid, Dr. Mark Fenner, Dr. Jason Graham

Thermal dynamics of prion nucleation and misfolding: a computational approach

15: Julia Perrina, Eva Dara, Julia Downing,

Angelina Warren, Katherine Harren, Alyssia Malanga

Dr. Carol Coté

How the use of hands facilitates the development of visual and cognitive skills in preschool children

16: Sarah Lyons

Dr. Mary Jane DiMattio

Exploring Emotional Intelligence Traits among a Sample of Bedside Nurses

17: **Alyssa Cosklo, Eduardo Diazgranados**

Dr. Amelia Randich

Exploring Morphological Plasticity in the Tip-Budding Alphaproteobacterium Henriciella pelagia

18: **Rebecca Russo, Erica Czerwinski**

Dr. John Norcross

Popular research areas among clinical psychology faculty: Ph.D. vs Psy.D.

19: **Gianna Magliocchi**

Dr. Satya Chattopadhyay

How to Enhance Undergraduate Student Experience for our students

20: **Brian O'Connor, Elizabeth Powers, Jonathan Gualpa**

Dr. Mojib Saei,

Dr. Geng Liu

Unmanned Underwater Vehicle

21: **Angelina Veve, Jack Olonovich**

Dr. Mojib Saei

Shive Wave Machine

22: **Aaron Redis**

Dr. Samantha Herrick

Seeing Trauma Differently: Evaluating the Efficacy of EMDR Across Varying Abilities and Contexts

23: **Alexa Martinez**

Dr. Michael Hague

Wolbachia Prevalence Varies Over Growing Season in Invasive Spotted Wing Fruit Fly

24: **Daniella Scanlon**

Dr. Christopher A.F. Howey

Thermo-physiology of the Eastern red-backed salamander (Plethodon cinereus) from Burned and Unburned Landscapes

25: **Cassandra Marenski**

Feather Coloration in Northern Saw-whet Owls

Dr. Robert Smith

26: **Daniel Cerra**

Lurching Forward with Historical Proofs

Dr. Kenneth Monks

27: **Daniel Juchnicki, Brayden Clarke**

The heat effects on Foam Dissipation

Dr. Joseph Klobusicky

28: **Britt Cunningham, Madison Langkamer,**

Michael Radzwilka, Megan Sommer

Standardized Patient Simulation and Clinical Confidence of PT Students in Acute Care: A Systematic Review

Dr. Janette Scardillo

29: **Emily Gallagher, Kaci Kranson**

AI-Powered Threat Detection and Other Counter Measures in Cybersecurity

Dr. Sinchul Back

30: **Taryn Hummer**

Characterizing the Morphological Traits and EPS Production of the Marine Caulobacter Hyphomonas rosenbergii

Dr. Amelia Randich

31: **Hailey Patts**

Synthesis of Highly-Substituted Oxazoles Using One-Pot Reactions

Dr. Michael W. Fennie

32: **Julia Swistak**

Moltbook and the Social Turn of Agentic AI

Dr. Satya Chattopadhyay

33: **Gabriel Messier, Shane McEvoy, Benjamin Nowak**

Dr. Mojib Saei

Pneumatic Motion Simulator

34: Noelle Gonzalez, Katie Meale, Gianna Memo,

Madison Ribeiro

Dr. Lori Walton

Pelvic Floor Dysfunction in Women with and without Diastasis Recti Abdominis: A Systematic Review

35: Jonathon Symuleski

Dr. Riddhiman Medhi

TiO₂ Nanowire Based Heterostructures

36: Drew Mauriello

Dr. Ashley Driver

Characterization of Neuro2a cell neurite structure upon overexpression of Hsd17b7

37: Zachary Neff

Dr. Satya Chattopadhyay

How do we make this campus less of a risk?

38: Carly FitzSimons

Dr. Satya Chattopadhyay

Enhancing Student Engagement with Handshake at the University of Scranton

39: Jack Hamerman, Jack Olonovich, Michael Redmond

Dr. Mojib Saei

Motorized Wheelchair Assembly

40: Allison Magee

Dr. Aram Balagyozyan

Hot-hand Effect and Gambler's Fallacy in Equity Markets: Evidence from Short-selling Data

41: Maxwell Dombrowski

Dr. Jong-Hyun Son

Melatonin Rescues Developmental Hypoxia-Induced Disruption of GABAergic Synaptic Connectivity and Anxiety-Like Behavior in Zebrafish

42: **Nora Flannery**

Dr. Vincent Farallo

Effects of alkaloid sequestration by poison frogs (Dendrobatidae) on locomotor function.

43: **Kaitlyn LaMotta**

MKT 361 Semester Research Project

44: **Angelica Ho**

How to Enhance Undergraduate Student Experience for Our Students

45: **Ana Pacewicz**

N/A

46: **Claire Merrill**

Dr. Satya Chattopadhyay

How to Enhance Student experience?

47: **Margaret Lloyd**

Dr. Satya Chattopadhyay

Enhancing Student-Alumni Mentorship programs

48: **Katherine Gorski**

Enhancing Student Life on Campus

49: **Annie Hansen**

Dr. Satya Chattopadhyay

Student Experienced Enhanced by Dining Experience

50: **Jordan Badman**

Dr. Joe Brague

Estrous Cycle Hormones and Their Impact on Parkinson's Disease Symptomology

51: Dominic Nicotra

Dr. Satya Chattopadhyay

A Stronger Campus Community Creates a Stronger Student Experience

52: Jay Klampfer

Dr. Satya Chattopadhyay

How can the University of Scranton increase student usage of campus facilities?

53: Cole Klampfer

Dr. Satya Chattopadhyay

How to Enhance Undergraduate Student Experience for our students.

54: Katelyn Flanagan, Becca Paterson, Maggie Noonan

Dr. Aram Balagyozyan

The Economic Impact of the University of Scranton on Local Businesses

55: Nathan Harrison, James Bistran

Dr. Mojib Saei

Hydraulic Powered Bike

56: Callie Gorman

Dr. Joe Brague

Impact of Intraperitoneal Injection of Metformin on Motor Behaviors of Parkinson's Disease Mice

57: Grace DiCarlo

Dr. Satya Chattopadhyay

Enhancing Student Experience Through Peer Mentorship at the University of Scranton

58: Hayla Bryant

Dr. Satya Chattopadhyay

Increase student satisfaction with food availability on campus by improving access to food.

59: Jillian DelBalso

Dr. Timothy D. Foley

Effects of S-Glutathionylation on the Structure and Activity of Triosephosphate Isomerase

61: Joseph Vazquez

Dr. Jessica Nolan

College Students View Jane Elliot's Brown-Eye Blue-Eye Exercise as Ethical

62: Parth Raval

Dr. Hiva Samadian

Solvability of Basic Graph Topologies for Multiple Robot Motion Planning

63: Erin E. Champion, Moira C. Courtney,

Erin E. Holler, Natalie E. Tiu

Dr. Nicholas J. Rodio

Impact of Balance Training on Children with Sensorineural Hearing Loss: A Systematic Review

64: Fiona Burke, Sarah Fitzpatrick,

Sophie Johanson, Emily Kmak

Dr. Anthony Carusotto,

Dr. Michael Crowell

Fear Reduces Return to Sport in Adolescents after ACLR: A Systematic Review

65: Liam McElwain, Synasia Johnson, Sofia Mastellone, Abby Hoyt

Sex differences and similarities in relationship goals and types on Tinder.

66: Riley Clarke

Dr. Joseph Klobusicky

Analysis of Polygonal Tessellations

67: Caitlin Wilson

Dr. Jong-Hyun Son

The Developmental Effects of Caffeine and Taurine on Anxiety Behaviors and Dopaminergic Connectivity in Zebrafish

68: Mary Katharine McDade

Dr. Satya Chattopadhyay

The Illusion of Emotion: Why Humans Feel Connection to Non-Conscious AI

69: **Sheldon Myers**

Dr. Michael Fennie

Cyano and Azido Tryptophan Probe Synthesis for Use in 2D IR Spectroscopic Protein Structure Elucidation

70: **Gianna Leggio**

How to Enhance Undergraduate Student Experience for Scranton Students

71: **Jillian Lopez**

Dr. Geng Liu

Bio-Inspired Underwater Unmanned Vehicles

73: **Hannah Melody Carr, Bella Czeck,**

Kaitlin Kremsky, Catherine Slevin

Dr. Renée M. Hakim

Wearable Sensors for Measuring Fatigability in Adults with Multiple Sclerosis: A Systematic Review

74: **Riley Pijut**

Dr. Satya Chattopadhyay

Enhancing Student Experience Through Affordable Campus Dining at the University of Scranton

75: **Thomas DiBello, Benjamin Yelland**

Dr. Bibi Rafeiza Khan

Visualizing Gravity-Responsive Promoter Activity Using RUBY Reporter

76: **William Havenstrite, Jerard Pineda, Parth Raval**

Efficient Multi-ported Memory in 7th Generation FPGAs

77: **Eduardo Diazgranados**

Dr. Amelia Randich

*Exploring the Growth and Characteristics of *Asprobacter aquaticus**

78: Hannah Adams

Dr. Robert J. Smith

Age- and sex-related differences in blood parasites and leukocytes of Northern Saw-whet Owls captured in Lackwanna State Park, Pennsylvania

79: Bryan Del Orbe

Dr. Satya Chattopadhyay

Shop/Market Prices: Enhancing the Student Experience

80: Harrison Clark

Dr. Satya Chattopadhyay

Student Awareness of Campus Opportunities

81: Sheeza Nazeer, Abdul Aziz Fuzail Mohammed

Dr. Wesam Alramadeen

Blockchain Technology Adoption and AI-Driven Decision Support Systems: An Integrated Analysis of Transparency, Data Integrity, System Trust, Explainability, and Operational Performance

82: Justin Pampinella

From Campus to Career: Preparing Students for Life After Graduation

83: Elina Joshi

Dr. Daniel Marena

Evaluating the Regional Impact of the 2021 USPSTF Colorectal Screening Expansion on Late-Stage Tumor Diagnoses in Northeast Pennsylvania

85: Joseph Maguire

Dr. Anne Royer

Effects of sex in White-Throated Sparrows

86: Matthew Jasienski

Dr. Riddhiman Medhi

Environmental Sensing Using Silver Nanoparticles and Python Machine Learning

87: Leslie Ortiz

Dr. Satya Chattopadhyay

How the University of Scranton can use social media to enhance the undergraduate student experience

89: Grace Lennox

Local Labor Leadership & Political Approaches in Northeastern Pennsylvania

90: Rebecca Doyle

Dr. Krisy Elrod

Music on the Brain: Exploring the Neuroscientific and Philosophical Background Behind Emotional Connections with Music

91: Gianna Natale, Riley Palomata

Dr. Joseph Klobusicky

Modeling the Evolution of Planar Foams Under Ruptures and Curvature Flow

92: Lainey Conway, Alyssa Bean, Steven Detwiler

Dr. Amelia Randich

Initial Characterization of Marine Alphaproteobacteria

93: Ashlyn Urbanski

Crossover in 1-D Voronoi Dynamics

94: Ron Prislupski

Dr. Jinghan Cai

Trading Hours and Price Efficiency: Evidence through the Hong Kong Stock Exchange

95: Dean Cozzolino

Factors Influencing Attendance at College Athletic Events

96: Tristan Mineo, Serhii Kuzman

Dr. Juan Serna

Exploring Quantum Systems with the Variational Quantum Eigensolver

97: **Rebecca Colwell, Clare Devine**

Dr. Maria Vital

At the Crossroads of Access and Disease: The Burden of Diabetes in an Uninsured Clinic Population

98: **Ava Gonzalez**

Dr. Spencer Galen

*Abundance and Diversity of Blood Parasites Infecting the Gray Catbird (*Dumetella carolinensis*)*

99: **Samantha Kosmark, Jesse Couch**

Dr. Christopher Howey

Rattlesnake Research

101: **Rosie Hessler**

*The Effects of Sleep Deprivation and Caffeine on Learning in *Camponotus floridanus**

102: **Ana Garippa, Natalie Fuller**

Dr. Amelia Randich

*Characterization and Determination of Optimal Growth Conditions of Marine Alphaproteobacteria *Henriciella barbarentis**

103: **Kathleen Holdsworth**

Dr. Lisa Kozden

Creating Healthy Habits and Skills for Daily Living: A Virtual Mindfulness Program for Neurodivergent Individuals

104: **John Kuan**

Dr. Amelia Randich

*Characterization of Growth and Morphology of Appendaged Bacterium *Hyphomonas polymorpha**

105: **Samantha Sonnie**

Dr. Brian Snee

Conspiracy Theories and The Media: Q'Anon Theory

106: Samantha Colby

Dr. Amelia Randich

Henriciella mobilis

107: Ian Mahalek

Dr. Christopher Howey

The Effects of Prescribed Fire on Stream Habitats and Impact on Salamander Biodiversity

108: Connor Brophy

Dr. Riddhiman Medhi

Silver Nanoparticles & Sensing in the Environment Using Orange Machine Learning

109: Serhii Kuzmin, Tristan Mineo

Dr. Juan Serna

Noise-Induced Errors in the Variational Quantum Eigensolvers

110: Amir Ryan

Mentoring/Tutoring Help: Enhancing the Student Experience

111: Ethan Distler

Dr. Mojib Saei

Transmission Maintenance Mount

112: Angelina Veve

Dr. Mojib Saei

Universal Skateboard Attachment

113: Caitlin Hannan

Dr. Stacy Smulowitz

Ethics of Neuromarketing

114: Cori Capar, Annie Duffy, Delaney Guard

Dr. Anthony Carusotto

Relationship Between Oral Contraceptives and Cholesterol in Adolescent Females for Cardiovascular Screening: A Systematic Review

115: **Francesca Melisi, Hanna Robinson, Samantha Sercia**

**Dr. Dana Maida, Dr.
Renée M. Hakim**

Impact of Virtual Reality Rehabilitation on Depression in People with Parkinson's Disease: A Systematic Review

116: **Ashley Benham, Sophia McMullan,**

Cosette Talarico, Courtney Zaic

Dr. Tracey Collins

Effects of Frontloading Home Health Visits on Hospital Readmissions in Older Adults: A Systematic Review

117: **Aaron Asiedu-Wiafe, Kyle Franek,**

Dylan Kummery, KM McCormack

Dr. Michael Crowell

Validity of Non-sagittal Hop Tests After ACL Reconstruction: A Systematic Review

118: **Nina Tormann**

Dr. Nathaniel Frissell

Analyzing Meteor Scatter Communications Through Citizen Science and Data Driven Methods

119: **Liam Miller**

Dr. Nathaniel Frissell

The ITU-R-HF Model and its Usage in a HF-Contesting Dashboard

120: **Owen Ruzanski**

Dr. Nathaniel Frissell

Development of a Contesting and DXing Dashboard for the HamSCI Personal Space Weather Station

121: **Jackson Conti**

Dr. Nathaniel Frissell

A Real-Time Web Dashboard for Measuring Earth's Magnetic Field

122: **Katie Martinez, Brett Hoey**

Dr. Nathaniel Frissell

Starting a Low-Cost SDR Beacon Receiver Project for Studying Extended Tropospheric Propagation on 144/432/902/1296 MHz

Oral Presentations

The following presentations will take place in LSC 133, The Pearn Auditorium

12:00 p.m. **Jordan Johnson**

Fidelity without Witness: Toward an Ethics of Attention

12:20 p.m. **Sophia Perrin**

The Meaning of Being: A Heideggerian Investigation of Existence

12:40 **Alyssa Cosklo**

Using the Social Determinants of Health Framework to Access Mother/Infant Homelessness Program in Lackawanna County, Pennsylvania

1:00 p.m. **Shane Reznick**

Nazis in New York

1:30 **Olivia Zrebiec**

Care for Every Paw

1:45 **Jessica Ely**

Narrative Discussions about Experiences in Reproductive Healthcare

2:00 **Lauren DeSantis**

Instructor's Perspectives on Using AI Tools Such as ChatGPT's TalkPal in ELL Courses

2:15 **Fiona Killeen**

Navigating Nourishment

2:30 **Tia Varghese**

Little Voices Big Futures

2:45 **Gianna Familetti**

Reaching for the S.T.A.R.S.: Creating College Workshops that Impact Local Youth

3:00 **Nya Rowe**

Everyday Defiance: Humor and Interiority in Contemporary Black Theatre

3:20 **Sarah Lyons**

Exploring Emotional Intelligence Traits among a Sample of Bedside Nurses

3:40 **Daniel Cerra**

Lurching Forward with Historical Proofs

The Following Presentations will take place in LSC 127

12:00 **Rebecca Potter**

Personal Space Weather Station Observations of the Gannon Geomagnetic Storm

12:20 **Katherine Harren & Jamie Alderfer**

OT Dominican Republic Service Trip

12:40 Nicholas Tollefsen

Local Sentiment and Stock Returns: Evidence from Country-, State-, and County-Level Twitter Data

1:00 Olivia Miller

Overproduction by Design: How Fast Fashion Supply Chains Drive Textile Waste and the Offsets of Secondhand Market Solutions

2:00 Sophia da Costa

Neurons and Narratives: Explaining Anxiety through Children's Literature

2:20 Rebecca Colwell & Clare Devine

At the Crossroads of Access and Disease: The Burden of Diabetes in an Uninsured Clinic Population

2:40 Mary Katherine McDade

The Illusion of Emotion: Why Humans Feel Connection to Non-Conscious AI

3:00 Karleigh Capobianco

Uncovering the Impact of Social ESG Through Firm Clustering