

## 2022 Celebration of Student Scholars

Student Name	Title of Research Project	Faculty Mentor(s)/Department(s)
Dominick Algeri	Impact of Physical Activity on Post-TBI Depression in Adults: A Systematic Review	Dr. Nicholas Rodio/Physical Therapy
Brittany Angrosina	Effectiveness of Supine Cycling Plus Early Mobility Interventions Versus Early Mobility Interventions Alone For Patients in the ICU: A Systematic Review	Dr. Dana Maida/Physical Therapy Dr. Janette Scardillo/Physical Therapy
Ileana Armendi	Impact of Community-Based Boxing on Non-Motor Outcomes for Individuals with Parkinson's Disease: A Systematic Review	Dr. Dana R. Maida/Physical Therapy Dr. Jennifer Schwartz/Physical Therapy
Colleen R. Berry	The Effectiveness of Complementary/Alternative Medicine for Pain Management in Postpartum Women: A Systematic Review	Dr. Lori Marie Walton/Physical Therapy Dr. Renée Hakim/Physical Therapy
Gabrielle Bingener	Hypoxia-induced developmental toxicity by oxidative stress in zebrafish larvae	Dr. Jong-Hyun Son/ Biology
Peter Bouraphael	Prosthetic Arm Powered by EMG Signals	Dr. Robert Spalletta/Physics and EE
Liza Bruno	The Effect of Ambient Light at Night (ALAN) on Aggressive Behaviors of Male Anoles	Dr. Christopher Howey/Biology
MaKenna Bryant	Effects of Ambient Light at Night on the Metabolic Rates of Anolis carolinensis	Dr. Christopher Howey/Biology
Peter Burke	A Just Recognition: Acknowledging and Chronicling the History of the Indigenous Peoples of the Wyoming Valley	Dr. Adam Pratt/History
Julianne Burrill	Impact of Home Health Care on Readmission Rates for Adults Diagnosed with Acute Stroke	Dr. Tracy Collins/Physical Therapy
Mary Cabassa	The Effect of Ambient Light at Night (ALAN) on Melanophores in Anole Lizards	Dr. Gary Kwiecinski/Biology
Cristina Cacolio	Impact of Physical Activity on Post-TBI Depression in Adults: A Systematic Review	Dr. Nicholas Rodio/Physical Therapy

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Student Name	Title of Research Project	Faculty Mentor(s)/Department(s)
Cloe Bella Capalongo	Sizzling salamander: Thermal physiology of Plethodon cinerus from burned and unburned habitats	Dr. Vincent R. Farallo/Biology
Nicholas Anthony Capobianco	The Effectiveness of Complementary/Alternative Medicine for Pain Management in Postpartum Women: A Systematic Review	Dr. Lori Marie Walton/Physical Therapy Dr. Renée Hakim/Physical Therapy
Christina Carachilo	Post-Pandemic and BLM Changes in Doctoral Psychology Admissions: The Fate of GREs and Interviews	Dr. John Norcross/ Psychology
Christina Carachilo	Student Race, Gender, Nationality, and LGBT Ally Groups in Doctoral Psychology Programs: A Work in Progress	Dr. John Norcross/ Psychology
Caroline Cirella	Independent Freedom and American Racial Inequality	Dr. Matthew Meyer/Philosophy
Philip J. Cocco	Exploring the Impact of Corporate Social Responsibility on Brand Equity: An Empirical Study	Dr. Rose Sebastianelli/Operations & Analytics
Kelly Corcoran	Loneliness in Older Adults with Visual Impairment	Dr. Julie Nastasi/Occupational Therapy
Stephanie Creegan	Impact of Home Health Care on Readmission Rates for Adults Diagnosed with Acute Stroke	Dr. Tracy Collins/Physical Therapy
James Curley	Impact of Physical Activity on Post-TBI Depression in Adults: A Systematic Review	Dr. Nicholas Rodio/Physical Therapy
Liz Dern	Prosthetic Arm Powered by EMG Signals	Dr. Robert Spalletta/Physics and EE
Koebe S. Diaz	Crisis At The Southern Border: A Scenario Study	Dr. Jessica Nolan/Psychology
Crisel Divinagracia	Loneliness in Older Adults with Visual Impairment	Dr. Julie Nastasi/Occupational Therapy
Justine Duva	The Effect of Acetaminophen on Male Mice Tibiae	Dr. Maria Squire/Biology
Darlene Duverge	Investigating Online Consumer Reviews Across Two Service Industries	Dr. Peter Andersen/Management, Marketing & Entrepreneurship
Thomas Elias	"Measuring and Modeling Photon Diffusion in Wax"	Dr. Declan Mulhall/Physics and EE
Emily Erickson	Loneliness in Older Adults with Visual Impairment	Dr. Julie Nastasi/Occupational Therapy

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Student Name	Title of Research Project	Faculty Mentor(s)/Department(s)
Shannon Everton	Perceptions of Occupational Therapy Students on Makerspace Pedagogy: A Mixed Methods Study	Dr. Michael A. Bermudez/Occupational Therapy
Julia Eydelman	Deep- Fake Detection: A Systematic Review	Dr. Sinchul Back/Sociology/Criminal Justice and Criminology
Rachel Fernandez	Loneliness in Older Adults with Visual Impairment	Dr. Julie Nastasi/Occupational Therapy
Elizabeth Filacheck	Perceptions of Occupational Therapy Students on Makerspace Pedagogy: A Mixed Methods Study	Dr. Michael A. Bermudez/Occupational Therapy
Nina Fiore	Perceptions of Occupational Therapy Students on Makerspace Pedagogy: A Mixed Methods Study	Dr. Michael A. Bermudez/Occupational Therapy
Lindsay Fitchett	Wearable Sensors for Balance and Mobility in Adults with Parkinson's Disease: A Systematic Review	Dr. Renée M. Hakim/Physical Therapy
Emily Fleming	Redox-Active Disulfide Bonds in Brain Proteins: Enrichment in Metabolic Enzymes and Proposed Catalysis by Peroxiredoxins	Dr. Timothy Foley/Chemistry
Sarah Marie Neff Futrell	Wearable Sensors for Balance and Mobility in Adults with Parkinson's Disease: A Systematic Review	Dr. Renée M. Hakim/Physical Therapy
Bryan Gorczyca	The Effectiveness of Complementary/Alternative Medicine for Pain Management in Postpartum Women: A Systematic Review	Dr. Lori Marie Walton/Physical Therapy Dr. Renée Hakim/Physical Therapy
Jillian Haller	Zinc sulfate as a neurotoxin: The role of the medial habenula in regulating anosmia-induced anxiety-like behavior	Dr. Jong-Hyun Son/ Biology
Janice Healey	Soil Microhabitat Differences Between Two Microendemic Salamanders	Dr. Vincent R. Farallo/Biology
Thomas Helmstetter	Effects of Unstable Surface LE Resistance Training on Balance in Older Adults: A Systematic Review	Dr. Peter Leininger/Physical Therapy
Jadriane Hernandez	Loneliness in Older Adults with Visual Impairment	Dr. Julie Nastasi/Occupational Therapy
Sarah Hickey	False Memories: The History of Racism in the Women's Suffrage Movement	Dr. Susan Poulson/History
Danielle Higgins	Key Anxiogenic Factors in Taking Objectively Structured Clinical Examinations among Healthcare Students: A Systematic Review	Dr. Anthony F. Carusotto/Physical Therapy

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Student Name	Title of Research Project	Faculty Mentor(s)/Department(s)
James Hornickle	Redox-Active Disulfide Bonds in Brain Proteins: Enrichment in Metabolic Enzymes and Proposed Catalysis by Peroxiredoxins	Dr. Timothy Foley/Chemistry
Jamie Hreniuk	The Effectiveness of Complementary/Alternative Medicine for Pain Management in Postpartum Women: A Systematic Review	Marie Walton/Physical Therapy Dr. Renée Hakim/Physical Therapy
Evan Hromisin	“Constructing a cwNMR Head with a Voltage Controlled Frequency Circuit”	Dr. Declan Mulhall/Physics and EE
Christian Huckfeldt	Impact of Community-Based Boxing on Non-Motor Outcomes for Individuals with Parkinson’s Disease: A Systematic Review	Dr. Dana R. Maida/Physical Therapy Dr. Jennifer Schwartz/Physical Therapy
Angela Hudock	Chemical, Physiological, and Behavioral Assessment of Zebrafish Embryo Exposure to Neonicotinoid Pesticide Clothianidin	Dr. Katherine Stumpo/Chemistry
Angela Hudock	Mixed nanoparticle matrix materials for mass spectrometry imaging of small molecules and lipids	Dr. Katherine Stumpo/Chemistry
Tyler Jordan	An Algorithm for Determining the Timing of Components within the HamSCI-WWV/WWVH Scientific Test Signal	Dr. Nathaniel Frissell/Physics and EE
Dylan Kane	Impact of Community-Based Boxing on Non-Motor Outcomes for Individuals with Parkinson’s Disease: A Systematic Review	Dr. Dana R. Maida/Physical Therapy Dr. Jennifer Schwartz/Physical Therapy
E Kerr	Queering Trauma: Trans-poetics by a trans poet	Dr. Billie Tadros/English Dr. Madeline Gangnes/English
Meghan Kimball	Key Anxiogenic Factors in Taking Objectively Structured Clinical Examinations among Healthcare Students: A Systematic Review	Dr. Anthony F. Carusotto/Physical Therapy
Christopher Kovacs	Blood Flow Restriction Therapy Effects on Function and Pain in Adults with Lower Leg Pathology	Dr. Joshua Prall/Physical Therapy Dr. Peter M. Leininger/Physical Therapy
Maggie Kowalewski	Relationship Between Immune State and Body Condition of Fall Migrant Gray Catbirds	Dr. Robert Smith/Biology

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Student Name	Title of Research Project	Faculty Mentor(s)/Department(s)
Maggie Kowalewski	Seasonal differences in leukocyte counts in Gray Cat birds	Dr. Robert Smith/Biology
Maggie Kowalewski	How Should we Understand and Relate to our Fellow Animals? A Theological Investigation with Implications from Factory Farming	Dr. David Dzurec/History Dr. Charles Pinches/Theology/Religious Studies
Kyra Krzywicki	One Image, Two Persons: Male-Female Complementarity in the context of John Paul II's Theology of the Body	Dr. Patrick Clark/Theology/Religious Studies
Michael Laabs	Effects of nicotine on collective strategy for obstacle navigation during cooperative transport in ants	Dr. Marc Seid/Biology
James Lanning	"Measuring and Modeling Photon Diffusion in Wax"	Dr. Declan Mulhall/Physics and EE
Robert Lenczewski	Prosthetic Arm Powered by EMG Signals	Dr. Robert Spalletta/Physics and EE
Kaylie Levinsky	The Effect of Ambient Light at Night (ALAN) on Melanophores in Anole Lizards	Dr. Gary Kwiecinski/Biology
Nicholas Linko	Blood Flow Restriction Therapy Effects on Function and Pain in Adults with Lower Leg Pathology	Dr. Joshua Prall/Physical Therapy Dr. Peter M. Leininger/Physical Therapy
Isaiah Livelyberger	"Judicial Reform in El Salvador and Guatemala: Challenges from the Peace Agreements to the Present" And "The Immigrant Scapegoat: Girardian Mimesis in Contemporary Political Discourse and Decision-Making"	Dr. Michael Allison/Political Science Dr. Duane Armitage/Philosophy
Nia Long	Existential Crisis: Existentialism's Influence on Libertarianism and the 1950s-1960s Civil Rights Movement	Dr. Adam Pratt/History
Samuel Marranca	Coping with the Nazi Legacy: An Examination of Denazification and Post-War Divided Memory in West Germany, 1945-1962	Dr. Sean Brennan/History
Sarah Marshall	Investigating the relationship between speech errors and inhibition	Dr. Jill Warker/Psychology
Kento Matsui	Effects of Viburnum Beetle Invasion on Growth in Gray Catbirds	Dr. Robert Smith/Biology

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Student Name	Title of Research Project	Faculty Mentor(s)/Department(s)
Emily McAlarney	Cyber Espionage: Who Is It Targeting?	Dr. Sinchul Back/Sociology/Criminal Justice and Criminology
Allison McGee	Latex Balloon Degradation Differs Based on Environment	Dr. Christopher Howey/Biology
Margaret McGrath	Ambient Light at Night & the Stress Response of Green Anoles	Dr. Christopher Howey/Biology
Emma Meaney	Perceptions of Occupational Therapy Students on Makerspace Pedagogy: A Mixed Methods Study	Dr. Michael A. Bermudez/Occupational Therapy
Katey Merenyi	Effectiveness of Supine Cycling Plus Early Mobility Interventions Versus Early Mobility Interventions Alone For Patients in the ICU: A Systematic Review	Dr. Dana Maida/Physical Therapy Dr. Janette Scardillo/Physical Therapy
Mark Merli	Effects of Unstable Surface LE Resistance Training on Balance in Older Adults: A Systematic Review	Dr. Peter Leininger/Physical Therapy
Laura Miller	Bacteriophage Transfer in <i>Camponotus floridanus</i>	Dr. Marc Seid/Biology
Tatiana Mishina	Wearable Sensors for Balance and Mobility in Adults with Parkinson's Disease: A Systematic Review	Dr. Renée M. Hakim/Physical Therapy
Ashley Mullan	Musical Feature Classification: Using Techniques of Machine Learning to Detect Genre	Dr. Murong Xu/Mathematics
Katie Nebzydoski	Parasite Load in Breeding Grey Catbirds ( <i>Dumetella carolinensis</i> ) with Respect to Age and Weather	Dr. Robert Smith/ Biology
John Nelson	"Measuring and Modeling Photon Diffusion in Wax"	Dr. Declan Mulhall/Physics and EE
Cuong Nguyen	An Algorithm for Determining the Timing of Components within the HamSCI-WWV/WWVH Scientific Test Signal	Dr. Nathaniel Frissell/Physics and EE
Tara O'Hagan	Redox-Active Disulfide Bonds in Brain Proteins: Enrichment in Metabolic Enzymes and Proposed Catalysis by Peroxiredoxins	Dr. Timothy Foley/Chemistry
Jenna O'Malley	Possible effects of climate change on the timing of land bird spring migration at a stopover site in northeastern Pennsylvania	Dr. Robert Smith/Biology

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Daniel Passafiume	Impact of Physical Activity on Post-TBI Depression in Adults: A Systematic Review	Dr. Nicholas Rodio/Physical Therapy
Vaibhavi Patel	An Algorithm for Determining the Timing of Components within the HamSCI-WWV/WWVH Scientific Test Signal	Dr. Nathaniel Frissell/Physics and EE
Vaibhavi Patel	Prosthetic Arm Powered by EMG Signals	Dr. Robert Spalletta/Physics and EE
Kevin Phiefer	Relaxation, Decoherence, and Error Mitigation in Quantum Search Algorithms	Dr. Juan Serna/Physics and EE
Julia Piermatteo	Effects of Viburnum Beetle Invasion on Growth in Gray Catbirds	Dr. Robert Smith/Biology
Taylor Powers	Effectiveness of Supine Cycling Plus Early Mobility Interventions Versus Early Mobility Interventions Alone For Patients in the ICU: A Systematic Review	Dr. Dana Maida/Physical Therapy Dr. Janette Scardillo/Physical Therapy
Ellyn Prusinowski	Diagnosis as Permission to Rest in the Narratives of Injured Women Runners	Dr. Billie Tadros/ English
Bridget Pynn	Impact of Socioeconomic Status on Childhood Engagement in Occupation	Dr. Deborah Budash/Occupational Therapy
Bridget Pynn	Perceptions of Occupational Therapy Students on Makerspace Pedagogy: A Mixed Methods Study	Dr. Michael A. Bermudez/Occupational Therapy
Katia Ramirez	Spatial mobility of Afro-Paulistanos Post Emancipation in São Paulo	Dr. Aiala Levy/ History
Ansis Ramolins	Effects of Unstable Surface LE Resistance Training on Balance in Older Adults: A Systematic Review	Dr. Peter Leininger/Physical Therapy
Katy Renton	Soil Microhabitat Differences Between Two Microendemic Salamanders	Dr. Vincent R. Farallo/Biology
Veronica Romanek	HF Doppler Observations of Traveling Ionospheric Disturbances in a WWV Signal Received with a Network of Low Cost HamSCI Personal Space Weather Stations	Dr. Nathaniel Frissell/ Physics and EE
Ellie Rosentel	Prosthetic Arm Powered by EMG Signals	Dr. Robert Spalletta/Physics and EE
Simal Sami	An Overview of Oblique Soundings from Chirp Ionosondes	Dr. Nathaniel Frissell/Physics and EE

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Student Name	Title of Research Project	Faculty Mentor(s)/Department(s)
M. Shaaf Sarwar	Proposed projects for research and education with a small radio telescope	Dr. Nathaniel Frissell/Physics and EE
M. Shaaf Sarwar	“Measuring and Modeling Photon Diffusion in Wax”	Dr. Declan Mulhall/Physics and EE
Caitlin S. Schreiber	Exploring the Impact of Corporate Social Responsibility on Brand Equity: An Empirical Study	Dr. Rose Sebastianelli/Operations & Analytics
Taylor Schwartz	Perceptions of Occupational Therapy Students on Makerspace Pedagogy: A Mixed Methods Study	Dr. Michael A. Bermudez/Occupational Therapy
Paul Sciascia	Impact of Home Health Care on Readmission Rates for Adults Diagnosed with Acute Stroke	Dr. Tracy Collins/Physical Therapy
Ashley Scoyni	Wearable Sensors for Balance and Mobility in Adults with Parkinson’s Disease: A Systematic Review	Dr. Renée M. Hakim/Physical Therapy
Devanshi Shah	Key Anxiogenic Factors in Taking Objectively Structured Clinical Examinations among Healthcare Students: A Systematic Review	Dr. Anthony F. Carusotto/Physical Therapy
David Shea	Copper-Catalyzed Synthesis of Thiazole Derivatives	Dr. Michael Fennie/Chemistry
Cameron Shedlock	MALDI Imaging of Gemcitabine Delivery, Metabolism, and Response to Treatment in Pancreatic Tumor Xenografts	Dr. Kate Stumpo/Chemistry
Daniel Shuck	Loneliness in Older Adults with Visual Impairment	Dr. Julie Nastasi/Occupational Therapy
Adrianna Smith	Catholicism and the New Sciences: Descartes' Break with Aristotle	Dr. Christopher Fremaux/Philosophy
Nathaniel Smith	Navigational Failures in Ants due to Agonists/Antagonists of Serotonin	Dr. Marc Seid/Biology
Alex Sophabmixay	The Influence of Transportation on Trimethylamine-N-Oxide Reduction in E. coli	Dr. Bryan Crable/Biology
Daniela Spagnoli	Impact of Community-Based Boxing on Non-Motor Outcomes for Individuals with Parkinson’s Disease: A Systematic Review	Dr. Dana R. Maida/Physical Therapy Dr. Jennifer Schwartz/Physical Therapy
Robert Spitz	Blood Flow Restriction Therapy Effects on Function and Pain in Adults with Lower Leg Pathology	Dr. Joshua Prall/Physical Therapy Dr. Peter M. Leininger/Physical Therapy



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Kimberly A. Stossel	Investigating Online Consumer Reviews Across Two Service Industries	Dr. Peter Andersen/Management, Marketing & Entrepreneurship
Jack Sylvester	N-acetylcysteine Protection against Developmental Hypoxic Damage in Zebrafish	Dr. Jong-Hyun Son/Biology
Aidan Szabo	“Constructing a cwNMR Head with a Voltage Controlled Frequency Circuit”	Dr. Declan Mulhall/Physics and EE
Forrest Terpe	Impact of Home Health Care on Readmission Rates for Adults Diagnosed with Acute Stroke	Dr. Tracy Collins/Physical Therapy
Raven Thomas	Key Anxiogenic Factors in Taking Objectively Structured Clinical Examinations among Healthcare Students: A Systematic Review	Dr. Anthony F. Carusotto/Physical Therapy
Lauren Tokash	Investigating Online Consumer Reviews Across Two Service Industries	Dr. Peter Andersen/Management, Marketing & Entrepreneurship
Julia Turnak	The Effects of Egg Color on Male Investment	Dr. Cara Krieg/Biology
Elijah Walker	Blood Flow Restriction Therapy Effects on Function and Pain in Adults with Lower Leg Pathology	Dr. Joshua Prall/Physical Therapy Dr. Peter M. Leininger/Physical Therapy
Ashley Walker	Impact of Socioeconomic Status on Childhood Engagement in Occupation	Dr. Deborah Budash/Occupational Therapy
Anna Wengyn	Phenomenological Analysis of the Lived Experiences of Young Women with PCOS	Dr. Billie Tadros/English
Sarah White	Quantifying geographic and color variation in Mimulus ringens using citizen science data	Dr. Anne Royer/Biology
Kate Wisner	Loneliness in Older Adults with Visual Impairment	Dr. Julie Nastasi/Occupational Therapy
Myah York	Relationship Between Immune State and Body Condition of Fall Migrant Gray Catbirds	Dr. Robert Smith/Biology
Myah York	A Student Reflects on Their Time Volunteering for Hospice	Dr. Robert Smith/Biology
Sofia Zingone	A proposed reintroduction of Christian Communities in the West Bank into the Holy Land Pilgrimage	Fr. Azar/Theology

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SPT	Blood Flow Restriction Therapy Effects on Function and Pain in Adults with Lower Leg Pathology	Dr. Joshua Prall/Physical Therapy Dr. Peter M. Leininger/Physical Therapy