

OUTSTANDING STUDENT AWARDS

86TH ANNUAL MEETING OF FLORIDA ACADEMY OF SCIENCES

FRIDAY, MARCH 10, 2023

Hosted by

FLORIDA POLYTECHNIC UNIVERSITY, LAKELAND, FL 33805, USA

Sections of the Florida Academy of Sciences may recognize student presenters at annual meetings of the Senior Academy for outstanding oral and poster Presentations and for honorable mentions. In addition to sectional recognition, the Awards Committee may make Academy-wide student awards based on nominations from the chairs of its 11 of its sections. Presentation awards granted to student presenters at the 86th Annual Meeting are listed below.

Sectional Awards

AGRICUTURAL AND NATURAL RESOURCE SCIENCES

Outstanding Oral Presentation, Undergraduate — Crissy Massimino, Indian River State

College, “Characterization of a novel jumbo phage and identification of lysins for potential agricultural applications.”

Outstanding Oral Presentation, Graduate — Brandon Ray, University of Florida,

“*Calcein* marking of *Hogfish (Lachnolaimus maximus)*, a potential tool for future stock enhancement.”

Outstanding Poster Presentation, Undergraduate — Tanner Wise, Indian River State

College, “Manual gene annotation of the longevity-regulation pathway in *Diaphorina citri*, the vector for Citrus Greening disease.”

ANTHROPOLOGICAL SCIENCES

Outstanding Oral Presentation, Graduate — Caroline Jasiak, University of Central Florida,
“Guidelines for Utilizing Photogrammetric Methods to Document Outdoor Forensic
Scenes Involving *Human Skeletal Remains*.”

ATMOSPHERIC AND OCEANOGRAPHIC SCIENCES

Outstanding Poster Presentation, Graduate —Mara Skadden, Florida Institute of Technology,
“Environmental Responses to Shoreline Restoration Techniques.”

BIOLOGICAL SCIENCES

Outstanding Oral Presentation, Undergraduate — Cyrille Teforlack, Bethune-Cookman
University, “Impacts of Nitrate on Survival and Early Morphological Development in
the *Eastern Oyster's Larvae*.”

Outstanding Oral Presentation, Graduate— Elizabeth Walsh, University of Florida, “A
behavioral comparison and a review of impacts on two worldwide freshwater fish
invaders- *Gambusia holbrooki* and *G. affinis*.”

Outstanding Poster Presentation, Undergraduate — Ronald Masse, Indian River State
College, “Exploring the Fungal Members of *Mosquito Microbiomes* in East-
Central Florida.”

Outstanding Poster Presentation, Graduate — Lucia Felipe, Florida Gulf Coast
University, “Potential magnetoreceptive structures in *Burmese python cranial*
tissues.”

COMPUTER SCIENCES AND MATHEMATICS

Outstanding Oral Presentation, Undergraduate — Fiona McIntosh, University of Central Florida, “Higher order conformal symplectic exponential time differencing methods.”

Outstanding Oral Presentation, Graduate — Michael Lafferty, University of Central Florida, “Coloring graphs with no K_t minor.”

Outstanding Poster Presentation, Undergraduate — John Pita, Florida Polytechnic University, “Transferring Dynamically Content from a Webserver to Augmented Reality.”

ENGINEERING SCIENCES

Outstanding Oral Presentation, Undergraduate — Robert Cheatham, Florida Institute of Technology, “Martian Regolith- Porous Carbon Complex: Synthesis and Application.”

Outstanding Oral Presentation, Graduate — Laura Fronchetti Guidugli, Florida Institute of Technology, “A Computational Study on PFAS Removal from Water by Novel Deep Eutectic Solvents.”

Outstanding Poster Presentation, Undergraduate — Israel Oyekan, Bethune-Cookman University, “Car detection for self-driving cars using a Deep learning approach.”

Outstanding Poster Presentation, Graduate — Nirmita Roy, University of South Florida, “Sequential Laser-induced Lignin and Copper Electroplating for manufacturing Smart Textiles and Wearable Electronics.”

Al Hall Memorial Award (Student Award in Engineering) — Robert Cheatham, Florida Institute of Technology.

ENVIRONMENTAL CHEMISTRY AND CHEMICAL SCIENCES

Outstanding Oral Presentation, Undergraduate — Ian Wall, Ava Maria University,

“Thiazolium-based ionic liquids & their effects on biofilm inhibition.”

Outstanding Poster Presentation, Undergraduate — Stephanie Basulto, South Florida State

College, “Preliminary studies on the effectiveness of industrial hemp as a phytoremediator of polluted water bodies.”

GEOSCIENCES

Outstanding Oral Presentation, Undergraduate — Shane Ahlers, University of Tampa,

“Location Strategies of Business Technology Companies in Tampa.”

Outstanding Oral Presentation, Graduate — Megan Grove, University of South Florida,

“Urban regeneration of neighborhoods surrounding solar plant development: A preliminary study on low carbon gentrification.”

Outstanding Poster Presentation, Undergraduate — Isis Bouie, Bethune-Cookman

University, “What’s in our Food? Geospatial Data Investigation on Microbiological Contamination in Food Recalls.”

RARE & ENDANGERED PLANTS & ANIMALS

Outstanding Oral Presentation, Graduate — Michaela Stenerson, A Rocha USA, “Review and Gap Analysis of Northern Indian River Lagoon Biodiversity.”

Outstanding Poster Presentation, Undergraduate — Cameron Johnson, Bethune-Cookman

University, “Life stage and Resource needs data as it relates to Effects pathways management.”

MEDICAL SCIENCES

Outstanding Oral Presentation, Undergraduate — Wynethe Salomon, Indian River State College, “Validating the use of vaporized peracetic acid as a sterilant in medical settings.”

Outstanding Oral Presentation, Graduate — Macy Nielander, Florida Institute of Technology, “Discovery of a Reproductive Thermal Diapause in *Caenorhabditis elegans*.”

Outstanding Poster Presentation, Undergraduate — Robert Logue, Southeastern University, “Developing Peptidomimetic Scaffolds as Potential Therapeutics in Clinical Chemotherapy.”

Outstanding Poster Presentation, Graduate — Cadynce Peltzer, Nova Southeastern University, “Epiphora and Hyperlacrimation as Paradoxical Manifestations of Facial Nerve Injury: A Review of Proposed Mechanisms.”

Outstanding Poster Presentation, Graduate — Min Chae, Lake Erie College of Osteopathic Medicine, “A robust Na⁺, K⁺-ATPase activity assay for the evaluation of synthetic inhibitors: a screen for potential migraine mitigation pharmaceuticals.”

PHYSICS AND SPACE SCIENCES

Outstanding Oral Presentation, Undergraduate — Emma R. Lambert, Embry-Riddle Aeronautical University, “Water tunnel testing for airfoil performance.”

Outstanding Oral Presentation, Graduate — Keefe Kamp, Florida Institute of Technology, “Two Be or Not Two Be: Multiplicity is the Question.”