

OUTSTANDING STUDENT AWARDS

85TH ANNUAL (VIRTUAL) MEETING OF FLORIDA ACADEMY OF SCIENCES

FRIDAY, MARCH 11, 2022

Hosted by

BETHUNE COOKMAN UNIVERSITY and UNIVERSITY OF TAMPA

Sections of the Florida Academy of Sciences may recognize student presenters at annual meetings of the Senior Academy for outstanding oral and poster papers 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 6 sections. Paper awards granted to student presenters at the 85th Annual (Virtual) Meeting are listed below.

Sectional Awards

ATMOSPHERIC AND OCEANOGRAPHIC SCIENCES (AOS)

Outstanding Oral Paper, Undergraduate (First Position)—Cameron Eskew, Florida Institute of Technology, “AOS-08: Benthic and pelagic copepod feeding preferences of dwarf seahorses, *Hippocampus zosterae*.”

Outstanding Oral Paper, Undergraduate (Second Position)—Lauren Albury, Bethune Cookman University, “AOS-07: Pre and post analysis of zooplankton density in restored dragline ditch marsh sites compared to natural waterways.”

Outstanding Oral Paper, Graduate (First Position)—Sean Crowley, Florida Institute of Technology, “AOS 05: Evaluating the efficacy of restoration efforts: baseline monitoring of benthic communities.”

Outstanding Oral Paper, Graduate (Second Position)—Kailey Richard, Florida Institute of

Technology, “AOS 02: Assessing the impact of UVC application on the biofilm forming diatom *Navicula incerta*.”

Outstanding Poster Paper, Undergraduate (First Position)—Patricia Bouza, Florida International University, “AOS P01: Building a baseline: nearshore biodiversity of Sandspur Island.”

Outstanding Poster Paper, Undergraduate (Second Position)—Cyrille Teforlack, Bethune Cookman University, “AOS P03: Pilot study to determine the impacts of nitrate on oyster larvae survival, growth, and microbiome.”

Outstanding Poster Paper, Graduate (First Position)—Margaret Giggie, Florida Institute of Technology, “AOS P02: Comparing the efficacy of a mercury UVC lamp to UVC-emitting LEDs for biofouling prevention.”

Outstanding Poster Paper, Graduate (Second Position)—Keith Centeno, Bethune-Cookman University, “AOS P04: Effects of temperature on seagrass *Thalassia testudinum* seedling survival and growth.”

BIOLOGICAL SCIENCES (BIO)

Outstanding Oral Paper, Undergraduate (First Position)—Mattie Dakin, University of Tampa, “BIO-04: Grooming and agonistic behaviors (including playing dead) in the semi-terrestrial ghost crab, *Ocypode quadrata*”

Outstanding Oral Paper, Undergraduate (Second Position)—Manav Agarwal, Florida Institute of Technology, “BIO-05: Polyandry and Inheritance of Adaptive Immune Genes in Sandbar Sharks (*Carcharhinus plumbeus*).”

Outstanding Oral Paper, Graduate (First Position)—Joshua M. Sisco, Florida A&M University, “BIO-02: Discovery and investigation of the *Crangonyx floridanus*

(Crustacea: Amphipoda) cryptic species complex with the description of a new species from a prairie lake in North Florida.”

Outstanding Poster Paper, Undergraduate (First Position)— Samantha Schlegel, University of Tampa “BIO-P05: Seasonal Abundance of the Aeolid Nudibranch *Nanuca occidentalis* in Tampa Bay.”

Outstanding Poster Paper, Undergraduate (Second Position)— Fabiana Vieira, Southeastern University, “BIO-P04: Growth and cellular characteristics of the *Desmid*, *Cosmarium* under high Potassium Nitrate conditions..”

Outstanding Poster Paper, Undergraduate (Second Position)— Tyler Dondero, St. Pete. College, “BIO-P07: Survival of Salt-Loving Microorganisms in Subsurface Mars-like Conditions.”

Outstanding Oral Paper, Graduate (First Position)— Irene Vicente Larena, Florida Institute of Technology, “BIO-P02: DVLO Theory to explain α -synuclein aggregation process.”

Outstanding Oral Paper, Graduate (Second Position)— Tessa Morgan, Florida Institute of Technology, “BIO-06: Is blood thicker than water? Relatedness and kinship in Bull Sharks (*Carcharhinus leucas*).”

COMPUTER SCIENCES AND MATHEMATICS (CMS)

Outstanding Oral Paper, Undergraduate (First Position)— Jessica Garcia, Barry University, “CMS-01: A Python utilization for visualization of Neighborhood Crime.”

Outstanding Oral Paper, Undergraduate Second Position)— Judith Strachan, Bethune-Cookman University, “CMS-02: Mathematical model of hearing loss due to viral

infection.”

ENGINEERING SCIENCES (ENG)

Outstanding Oral Paper, Undergraduate (First Position)—Daniil Ivannikov, Florida

Polytechnic University, “ENG-12: Photocatalytic removal of poly- and perfluoroalkyl substances (PFAS): An emergent, persistent organic pollutant in wastewater.”

Outstanding Oral Paper, Undergraduate (Second Position)— Harpoon Seabring, Florida

Institute of Technology, “ENG-13: Design of a Scissor Lift Tool for UVC Application on Marine Ship Hull.”

Outstanding Oral Paper, Graduate (First Position)— Kyle Austin Kaleakaumaka Steel,

Florida Polytechnic University, “ENG-10: FEA Modeling of Additively Manufactured Nonlinear Springs.”

Outstanding Oral Paper, Graduate (Second Position)— Al Ibtida Sultana, Florida Institute of

Technology, “ENG-05: Enhanced carbon dioxide capture using porous superactivated-hydrochars derived from deep eutectic solvents pretreated loblolly-pine.”

Outstanding Poster Paper, Undergraduate (First Position)—Daniil Ivannikov, Florida

Polytechnic University, “ENG-P05: C.I.E. Color Lab Space Characterization of Thermochromic Materials with Sample Optimization.”

Outstanding Poster Paper, Undergraduate (Second Position)— Manit Bhusal, Bethune-

Cookman University, “ENG-P04: Opinion mining of newspaper articles using natural language processing: pilot test using texts on Indian River Lagoon.”

Outstanding Poster Paper, Graduate (First Position)— Charisma Clarke, Florida Polytechnic

University, “ENG-P01: Thermal Conductivity Measurement of Thermoplastic

Polyurethane-Carbon Black.”

Outstanding Poster Paper, Graduate (Second Position)— Colton Frear, Florida Polytechnic University, “ENG-P02: Extended Analysis of Micro Fin Array Configurations for Heat Transfer Enhancement.”

ENVIRONMENTAL AND CHEMICAL SCIENCES (ENV)

Outstanding Oral Paper, Graduate (First Position)— Muzammil M.N. Ahmed, Florida Institute of Technology, “ENV-01: Electrochemical detection of Cd 2+ at nanoelectrodes in environmental samples.”

Outstanding Poster Paper, Undergraduate (First Position)— Isaiah J. Nelsen, Southeastern University, “ENV-P02: Lewis-Acid Enhanced Face Selection in the Reduction of Adamantanones.”

Outstanding Poster Paper, Undergraduate (Second Position)— Kyle Manuel, Southeastern University, “ENV-P03: Onset of Hyperconjugation in the Transition State of Carbonyl Addition by Deactivation of Periplanar Vicinal Bonds.”

MEDICAL SCIENCES (MED)

Outstanding Poster Paper, Graduate (First Position)— Noel Manring, Florida Institute of Technology, “MED-04: Electrodeposition of neurotransmitters onto carbon-fiber microelectrodes to enhance Cu²⁺ detection with fast-scan cyclic voltammetry.”

Outstanding Poster Paper, Undergraduate (First Position)— Alejandro Torres, South Florida State College, “MED-P09: Epithelial to mesenchymal transition as biomarker for early detection of metastasis in colorectal cancer.”

Outstanding Poster Paper, Undergraduate (Second Position)— Sarah Ali, Florida Polytechnic University, “MED-P07: Species-based differences in mechanical properties and cytocompatibility of methacrylated collagen hydrogels.”

Outstanding Poster Paper, Graduate (First Position)— Bethany Kavalakatt, Lake Erie College of Osteopathic Medicine, “MED-P03: The Impact & Utility of Telemedicine for Chronic Pain & Long Covid Patients.”

Outstanding Poster Paper, Graduate (Second Position)— Davong (David) Phrathep, Lake Erie College of Osteopathic Medicine, “MED-P02: Restaurant Cleaning Practices During COVID-19 Pandemic: An Analysis of Microbial Persistence on High Contact Surface Areas.”

Compiled by

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FAS Awards Committee Chair

05.24.2022