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MSMechE Student Weaver Presents Research at DC Conference

October 14, 2022

[MS in Mechanical Engineering](#) student Amanda Weaver presented her research at the [NSF Engineering Education and Centers \(EEC\) Grantees Conference](#) September 22-23, 2022 in Washington DC. Only ten students from across the U.S. were selected to present their research in this prestigious national conference.



Ms. Weaver’s research is titled “Hydrogen, the New Climate Change Mitigation Technology for Aerospace Travel,” based on research done in the [Renewable Energy and Engines laboratory](#) in the Paulson College of Engineering and Computing with Dr. Valentin Soloiu, Professor of Mechanical Engineering. Ms. Weaver earned her B.S. in Mechanical Engineering from Georgia Southern in 2021.

In 2021, Weaver was on a research team (Cesar Carapia, Drake Grall, Levi McKinney, and Richard C. Smith III, with Dr. Soloiu as faculty mentor) that won first place in the Crider Foods Mechanical Engineering Excellence Awards in the PCEC Student Research Symposium with their presentation: “Strategy for Emission Reduction in Advanced Combustion of Bio-Alcohol and Aerospace Fuel Blends.” As a master’s student, Weaver then led a research team (Lily Parker, Austin Brant, and Richard C. Smith III, with Dr. Soloiu as faculty mentor) that continued her research on climate change mitigation with its 2022 Student Research Symposium submission: “Climate Change Mitigation through the Investigations of Low-Temperature Combustion Regions of Aerospace Jet-A and F-24 for the Reduction of Greenhouse Gas Emissions.”

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