Jessica Caggiano

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https://jesscag.github.io

UNIVERSITY OF SOUTH FLORIDA
College of MARINE SCIENCE

Education

2018 – est 2025 **Ph.D., Marine Science** University of South Florida.
Concentration: Physical Oceanography
Entered Candidacy: March 2022
Relecant course Work: Physical Oceanography, Biological Oceanography, Chemical Oceanography, Geological Oceanography, Data Analysis, Fluid Dynamics, Geophysical Fluid Dynamics

2015 – 2018 **B.A Pure Mathematics** University of South Florida.
Research Advisor: Razvan Teodorescu
Relevant Course Work: Computational Physics, Theory of Computation, Finite Mathematics, Numerical Analysis I/II, Abstract Algebra

2013 – 2015 **A.A. Engineering** Hillsborough Community College.

2012 - 2013 **Certificate in Cosmetology** Paul Mitchell The School
Hours completed: 1300
License number: CL1235478

Professional Experience

2024 **NASA Jet Propulson Lab Intern**
Advisor: Jinbo Wang (jinbo.wang@jpl.nasa.gov)

Teaching Assistant, Intro to Oceanography
College of Marine Science, University of South Florida

2023 **William M. Lapenta NOAA Student Internship**
Advisors: Meghan Cronin (meghan.f.cronin@noaa.gov), Dongxiao Zhang (dongxiao.zhang@noaa.gov), Jack Reeves Eyre (jack.reeveseyre@gmail.com)
Project: *"Diurnal cycle of the atmospheric boundary layer stability in NCEP models"*

2021 - 2023 **Student Success Center Tutor**, University of South Florida Saint Petersburg Campus
Subjects: College Algebra, Pre-Calculus, Business Calculus, Calculus I, Calculus II, Physics I, Finite Mathematics, Mathematics for Liberal Arts

2020 **Teaching Assistant**, Physical Oceanography
College of Marine Science, University of South Florida

Publications

1. **J. Caggiano** and D. Chambers, "Quantifying wave error on swot sea surface height in the southern ocean," in prep.
2. **J. Caggiano**, M. Cronin, D. Zhang, and J. R. Eyre, "Exploration of a coupled models diurnal cycles at tpos buoy locations," in prep.

Presentations at Scientific Meetings

1. **J. Caggiano**, M. Cronin, D. Zhang, and J. R. Eyre, *Exploration of a Coupled Models Diurnal cycles at TPOS Buoy Locations*, 2024, AGU Ocean Sciences Meeting.
2. **J. Caggiano**, M. Cronin, D. Zhang, and J. R. Eyre, *Exploration of a coupled models Diurnal cycles at TPOS buoy locations*, 2024, USF College of Marine Science Graduate Student Symposium.
3. **J. Caggiano** and D. Chambers, *Quantifying Wave Error on SWOT Sea Surface Height in the Southern Ocean*, 2022, AGU Fall Meeting.
4. **J. Caggiano** and D. Chambers, *Quantifying Wave Error on SWOT Sea Surface Height in the Southern Ocean*, 2022, USF College of Marine Science Graduate Student Symposium.
5. **J. Caggiano**, D. Chambers, B. Galperin, and G. King, *Analysis of Second Order Transverse Structure Functions of Velocity in the Southern Ocean*, 2019, Ocean Surface Topography Science Team Meeting.

Funding and Awards

2020-2023 — **Future Investigator**, NASA Earth and Space Science and Technology (FINESST), $175k

2023-2024 — **Thomas E Pyle Memorial Fellowship** in Marine Science, USF College of Marine Science, $10k

2024 — Travel award for OSM AGU

Service

2023 - present — Curriculum Committee, student representative

2023 — Physical Oceanography Faculty Hire Search Committee, student representative

Cruise Activity

9/5/2023 – 9/10/2023 — **COMPS-106 (CORE-1)**,R/V Weatherbird II, Assist in pre-cruise operations planning, Operate CTD rosette, Assist top-side buoy deployment, maintenance, and recovery, Gulf of Mexico

4/9/2023 – 5/3/23 — **SR2306**, R/V Sally, Underway CTD (ecoCTD), Assisted with recovery and deployments of wavegliders, seagliders and surface drifters, Assisted with CTD rosette casts, North Pacific Ocean

6/2019 — **Oceanography Camp for Girls**, R/V Angari, Assisted with Niskin bottles, otter-trawl, sediment grab sampling, plankton tows, secchi disk measurements, and nutrient analyses.