

# JOSEPH C. GRADONE

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## EDUCATION

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- 2020—Present Ph.D. Candidate in Oceanography, Rutgers University  
Advisor: Dr. Travis Miles
- 2016—2018 M.S. in Oceanography, University of Delaware  
Thesis: “Sea Surface Kinetic Energy as a Proxy for Phytoplankton Light Limitation in the Summer Pelagic Southern Ocean”  
Advisor: Dr. Matthew Oliver
- 2012—2018 B.S. in Geology, Dual Minor in Atmospheric and Oceanic Studies and Geography, University of Colorado  
Honors: Magna Cum Laude  
Senior Thesis: “Surface Chlorophyll Variability in the Drake Passage Region of the Southern Ocean”  
Advisor: Dr. Nicole Lovenduski
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## RESEARCH AND PROFESSIONAL EXPERIENCE

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- 2022—Present National Defense Science and Engineering Graduate Fellow, Rutgers University
- 2022—Present Field Applications Engineer, Teledyne Webb Research (Part-time)
- 2020—2021 Graduate Research Assistant, Rutgers University
- 2018—2020 Customer Support Applications Engineer, Teledyne Webb Research, Slocum Glider
- 2016—2018 Graduate Research Assistant, University of Delaware
- 2015—2016 Undergraduate Research Assistant, University of Colorado
- 2015 Research Experiences for Undergraduates National Science Foundation Fellow, Rutgers University
- 2013—2016 Data Assistant, National Oceanic and Atmospheric Administration, National Center for Environ. Info. (Boulder, CO)
- 2013—2014 Research Intern, Stony Brook Millstone Watershed Association
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## PUBLICATIONS

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- Gradone, J.** & Miles, T. (2022). JGradone/Slocum-AD2CP: v1.0.0 (Version v1.0.0). Zenodo. <https://doi.org/10.5281/zenodo.7416126>
- Gradone, J.C.**, Hunter, E. J., Mullison, J., & Miles, T.N. (2021) Development of Onboard Processing Capabilities for a Slocum Glider Acoustic Doppler Current Profiler. *OCEANS 2021: San Diego – Porto* pp. 1-5, doi: 10.23919/OCEANS44145.2021.9705895
- Gradone, J. C.**, Oliver, M. J., Davies, A.R., Moffat, C., & Irwin, A. (2020). Sea Surface Kinetic Energy as a Proxy for Phytoplankton Light Limitation in the Summer Pelagic Southern Ocean. *Journal of Geophysical Research: Oceans*, 125. doi: 10.1029/2019JC015646
- Eichhorn, M., Shardt, Y.A.W., **Gradone, J.C.**, Allsup, B. (2020). Sensitivity Analysis of Bias in Satellite Sea Surface Temperature Measurements. *IFAC-Papers OnLine* 53, 764–771. doi:10.1016/j.ifacol.2020.12.828
- Gradone, J.C.**, Roarty, H.J., Evans, C., Glenn, S., Handel, E., Baskin, C., Dusek, G., & Paternostro, C. (2015) Assessing HF Radar Data in New York Harbor: Comparisons with Wind, Stream Gauge and Ocean Model Data Sources. *OCEANS 2015, MTS/IEEE Washington*, Washington, DC. pp. 1-8. doi: 10.23919/OCEANS.2015.7401972

### Citation Records:

**Google Scholar:** [https://scholar.google.com/citations?hl=en&user=0b\\_NVc0AAAAJ](https://scholar.google.com/citations?hl=en&user=0b_NVc0AAAAJ)

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**ResearchGate:** [https://www.researchgate.net/profile/Joe\\_Gradone](https://www.researchgate.net/profile/Joe_Gradone)

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## AWARDS & SCHOLARSHIPS

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- 2022—Present National Defense Science and Engineering Graduate Fellowship
- 2018 National Science Foundation SCAR-POLAR Conference Travel Grant
- 2018 Graduate and Professional Education Professional Development Grant, University of Delaware
- 2017—2018 Charles and Patricia Robertson Fellowship, University of Delaware

2016—2017	Marian R. Okie Fellowship, University of Delaware
2017	3 <sup>rd</sup> Place, University of Delaware, Pitch-90 Competition, University of Delaware
2016	Undergraduate Research Opportunities Program Grant, University of Colorado
2012-2016	Chancellor's Achievement Scholarship, University of Colorado

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### PROFESSIONAL MEETINGS AND ABSTRACTS

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\* Indicates mentored undergraduate student

**Gradone, J.C.**, Miles, T., Glenn, S., & Wilson, D. Slocum Glider ADP Based Observations of Caribbean Through-Flow and Their Implications for Global Climate. Underwater Glider User Group (UG2) Meeting. Seattle, WA. September 21, 2022. (Invited Oral Presentation)

**Gradone, J.C.**, Miles, T., Glenn, S., & Wilson, D. Observing Essential Ocean Features in the Eastern Caribbean for a Safe and Predicted Ocean. ASLO Ocean Sciences Meeting, 2022. (Oral Presentation)

Kluge, J., Soloviev, A., Morrison, G., Thompson, T., Allsup, B., **Gradone, J.**, Devine, P., Wood, J., & Thurnherr, A. LADCP Analysis of Data from Slocum G3 Glider in a Western Boundary Current. ASLO Ocean Sciences Meeting, 2022. (Oral Presentation)

**Gradone, J.C.**, Hunter, E.J., Mullison, J., & Miles, T.N. Development of Onboard Processing Capabilities for a Slocum Glider Acoustic Doppler Current Profiler. OCEANS 2021: San Diego – Porto, 2021. (Oral Presentation)

Smith, H., Oliver, M. J., Breece, M. W., Haulsee, D. E., **Gradone, J.C.**, Goodrich, C., & Hudson, K. *Comparing Satellite and AUV: Observations of chlorophyll and sea surface temperature*. Delaware Environmental Institute Research Symposium, Newark Delaware. 7 March 2019 (Poster Presentation)

**Gradone, J.C.**, Oliver, M.J., & Davies, A.R. *Low Mesoscale Kinetic Energy as a Precondition for Phytoplankton Blooms in the Southern Ocean*. Scientific Committee on Antarctic Research POLAR 2018. Davos, Switzerland, June 21, 2018 (Poster Presentation)

**Gradone, J.C.**, Oliver, M.J., & Davies, A.R. *Low Mesoscale Kinetic Energy as a Precondition for Phytoplankton Blooms in the Southern Ocean*. NASA Biodiversity and Ecological Forecasting Meeting. Washington, DC, April 24, 2018 (Poster Presentation)

\*Smith, H., Oliver, M. J., Breece, M. W., Haulsee, D. E., **Gradone, J.C.**, & Goodrich, C., Hudson, K. *Comparing Satellite and AUV: Observations of chlorophyll and sea surface temperature*. REU presentation. Lewes, DE. 11 August 2017 (Poster Presentation)

**Gradone, J.C.**, & Lovenduski, N. *Surface Chlorophyll Variability in the Drake Passage Region of the Southern Ocean*. Earth System and Space Science Conference, University of Colorado Sustainability, Energy, and Environment Complex, Boulder, Colorado. November 13, 2015. (Poster Presentation)

**Gradone, J.C.** & Roarty, H.J. *Assessing HF Radar Data in the New York Harbor: Comparisons with Oceanographic Models and Data Sources*. Poster presented at Rutgers University Research Internship in Ocean Sciences Poster Conference, Rutgers University Department of Marine and Coastal Sciences, New Brunswick, New Jersey. August 7, 2015.

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### FIELD EXPERIENCE

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2021	National Science Foundation, Palmer Long-Term Ecological Research Cruise, Antarctica (6 weeks)
2020—Present	Rutgers University, Slocum glider deployments, recoveries, and piloting
2018—2020	Teledyne Webb Research, 150+ days, small boat operations, Slocum glider deployments, recoveries, and piloting
2016—2018	University of Delaware, 20+ days Slocum glider deployments, recoveries, and piloting
2015	Rutgers University, HF Radar installation and maintenance

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### PROFESSIONAL ACTIVITIES & PUBLIC OUTREACH

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Professional Affiliations:

2021—Present	Member, The Oceanography Society
2020—Present	Member, Underwater Glider User Group
2017—Present	Member, Marine Technology Society

Academic and Professional Service:

2022—Present	Reviewer, International Council for the Exploration of the Sea (ICES) Journal of Marine Science
2022—Present	Chair, Marine Technology Society, New Jersey Student Section

2022—Present Treasurer, Oceanography Graduate Student Association, Rutgers University  
2021—Present Intern Coordinator, National Science Foundation, Research Experiences for Undergraduates, Rutgers University  
2021—Present Co-organizer, Rutgers University Summer Internship Marine Science Career Panel  
2022 Science Judge, Freshman Research Exposition, Marine Academy of Technology and Environmental Science  
2021—Present Shore Bowl, Regional Bowl for High School National Ocean Science Bowl  
2018 Science Judge, Sussex County Science Fair  
2017—2018 President, Graduate Student Association, University of Delaware, College of Earth, Ocean and Environment  
2017—2018 Chesapeake Bay Bowl, Regional Bowl for High School National Ocean Science Bowl

Select Academic Outreach:

2022—Present Rutgers University Department of Marine and Coastal Sciences Undergraduate Mentor  
2022—Present Rutgers' Day  
2022 4-H STEM Challenge, Explorers of the Deep (<https://4-h.org/parents/4-h-stem-challenge/>)  
2022 New Jersey State Library Oceans' of Possibilities Reading Program (Franklin, New Brunswick, East Brunswick)  
2020—Present Skype with a Scientist  
2020 Ocean County Community College  
2016—2018 University of Delaware Coast Day  
2017 Boy Scouts of America Oceanography Merit Badge  
2017 United State Naval Academy  
2016 Sussex County Leaders in STEM Education

Workshops:

2021 National Center for Atmospheric Research, Community Earth System Model Tutorial (Selected)  
2021 National Center for Atmospheric Research, Weather Research and Forecasting Tutorial (Selected)  
2019 Teledyne Gavia Training Course  
2017 Rutgers University Glider Training Course

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## MEDIA

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10/5/22 – Agoa Marine Mammal Sanctuary ["A scientific machine surveys the Caribbean waters"](#)  
4/21/21 – Business Wire ["Atlantic Shores Offshore Wind Launches Buoys to Collect Essential Atmospheric, Cold Pool, Animal Migration Data"](#)  
4/5/21 – Teledyne Marine ["Slocum Glider "Silbo" Circumnavigates the Atlantic Ocean – Part 3"](#)  
1/24/18 – Delaware EPSCoR ["3rd Place, University of Delaware, 2017 Pitch-90 Competition, University of Delaware"](#)