

# JOSEPH C. GRADONE

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## EDUCATION

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- 2020—Present Ph.D. Student 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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- 2020—Present 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 Science Intern, Stony Brook Millstone Watershed Association
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## PUBLICATIONS

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- 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=Ob\\_NVc0AAAAJ](https://scholar.google.com/citations?hl=en&user=Ob_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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- 2018 NSF 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.**, 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*)

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

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:

2021—Present	Intern Coordinator, National Science Foundation, Research Experiences for Undergraduates, Rutgers University
2017—2018	President, Graduate Student Association, University of Delaware, College of Earth, Ocean and Environment

### Academic Outreach:

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

### Volunteer Work:

2021—Present	Shore Bowl, Regional Bowl for High School National Ocean Science Bowl
2018	Sussex County Science Fair
2017—2018	Chesapeake Bay Bowl, Regional Bowl for High School National Ocean Science Bowl
2016—2018	Delaware Food Bank
2016—2018	Delaware Habitat for Humanity

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## MEDIA

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4/5/21 – Teledyne Marine ["Slocum Glider "Silbo" Circumnavigates the Atlantic Ocean – Part 3"](#)

4/21/21 – Business Wire ["Atlantic Shores Offshore Wind Launches Buoys to Collect Essential Atmospheric, Cold Pool, Animal Migration Data"](#)