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CONTACT INFORMATION

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PERSONAL INFORMATION

- Date of Birth: February, 6th 1990
- Place of Birth: Port Jefferson, NY
- Citizenship: USA
- Marital Status: Engaged
- Children: None

RESEARCH INTERESTS

My research focuses on the use of satellite-derived sea surface salinity (SSS) data to understand open ocean circulation, vertical stratification, and air-sea interactions. These phenomena must also be quantified by other variables such as sea surface temperature (SST) and sea surface height (SSH), which I also primarily obtain through remote sensing data. In combination, these data are useful for understanding important mixed-layer phenomena, particularly the barrier layer, as well as the effects of climate scale phenomena on intraseasonal and seasonal processes such as the Madden-Julian Oscillation (MJO) and the Asian monsoon respectively. I also use model simulations extensively for these purposes with a focus on the U.S. Navy's HYCOM forecasting model.

EDUCATION

- 2016: Ph.D. in Marine Science (Physical/Satellite Oceanography), University of South Carolina, Columbia, SC (Ph.D. advisor: Prof. Subrahmanyam Bulusu)
- 2014: M.S. in Marine Science (Physical Oceanography), University of North Carolina Wilmington, Wilmington, NC (Thesis advisor: Prof. Frederick Bingham)
- 2012: B.S. in Marine Science (Physical Oceanography), NC State University, Raleigh, NC
- 2012: B.S. in Meteorology, NC State University, Raleigh, NC

PROFESSIONAL EXPERIENCE

- January 2016 – present: Teaching Assistant for Physical Oceanography (MSCI 314), USC
- May 2015 – December 2015: Graduate Research Assistant, USC
- January 2015 – May 2015: Teaching Assistant for Physical Oceanography (MSCI 314), USC
- May 2014 – December 2014: Graduate Research Assistant, USC
- May 2013 – August 2013: Graduate Research Assistant, UNCW
- August 2012 – May 2014: Teaching Assistant for Physics 101 and Physics 102, UNCW

AWARDS

- 2013 - UNCW Center for Marine Science Summer Research Grant
- 2016 - USC Graduate Student Day Oral Presentation Runner-Up

ACADEMIC AND PROFESSIONAL SOCIETIES

- American Geophysical Union

REFEREED PUBLICATIONS

1. **D'Addezio**, J. M., B. Subrahmanyam, E. S. Nyadjro, and V. S. N. Murty (2015), Seasonal variability of salinity and salt transport in the Northern Indian Ocean, *J. Phys. Oceanogr.*, *45*, 1947-1966, doi: 10.1175/JPO-D-14-0210.1.
2. **D'Addezio**, J. M., and F. M. Bingham (2014), A subtropical North Atlantic regional atmospheric moisture budget, *J. Geophys. Res. Oceans*, *119*, 8731–8748, doi: 10.1002/2014JC010300.

REFEREED PUBLICATIONS IN PRESS OR ACCEPTED

1. **D'Addezio**, J. M., and B. Subrahmanyam (2016), Sea surface salinity variability in the Agulhas Current Region inferred from SMOS and Aquarius, *Remote Sens. Environ.*, doi: 10.1016/j.rse.2016.02.006.
2. **D'Addezio**, J. M., and B. Subrahmanyam (2016), The role of salinity on the interannual variability of the Seychelles-Chagos thermocline ridge, *Remote Sens. Environ.*, doi: 10.1016/j.rse.2016.02.051.

PUBLICATIONS IN REVIEW/PREPARATION

1. **D’Addezio**, J. M., and B. Subrahmanyam (2016), Madden Julian Oscillation genesis within the Seychelles-Chagos Thermocline Ridge, *J. Geophys. Res. Oceans*, (Under Review).
2. **D’Addezio**, J. M., B. Subrahmanyam, and J. F. Shriver (2016), Year-to-year variability in the Arabian Sea mini warm pool and its link to Asian monsoon intensity, *Nature – Climate Change*, (In Preparation).
3. **D’Addezio**, J. M., F. M. Bingham, T. Lee, and B. Subrahmanyam (2016), The effects of air-sea coupling on sea surface salinity in eastern Pacific tropical instability waves, *J. Geophys. Res. Oceans*, (In Preparation).

OTHER PUBLICATIONS

- **D’Addezio, J.**, and B. Subrahmanyam (2016), Long term trends in Arabian Sea mini warm pool variability and its role in monsoon onset, Ocean Sciences Meeting 2016, New Orleans, February 21-26, 2016.
- **D’Addezio, J.**, and B. Subrahmanyam (2015), The role of salinity on the interannual variability of the Seychelles-Chagos thermocline ridge, Open Science Conference on Salinity and Freshwater Changes in the Ocean, Hamburg, October 12-15, 2015.
- **D’Addezio, J.**, B. Subrahmanyam, V. S. N. Murty, and E. Nyadjro (2014), Estimation of Fresh Water and Salt Transports in the Northern Indian Ocean, Fall AGU 2014, San Francisco, December 15-19, 2014.
- **D’Addezio, J.**, and F. Bingham (2014), A Subtropical North Atlantic Regional Atmospheric Moisture Budget, Fall AGU 2014, San Francisco, December 15-19, 2014.
- **D’Addezio, J.**, B. Subrahmanyam, E. Nyadjro, and V. S. N. Murty (2014), Basin-scale Exchange of Salt and Fresh Water between the Arabian Sea and the Bay of Bengal during Monsoons, Aquarius Science Team Meeting, Seattle, November 11-14, 2014.
- **D’Addezio, J.**, and F. Bingham (2014), A Subtropical North Atlantic Regional Atmospheric Moisture Budget, Ocean Sciences 2014, Honolulu, February 23-28, 2014.

Ph.D.

Ph.D. Advisor:

Prof. Subrahmanyam Bulusu
School of Earth and Ocean Sciences
University of South Carolina
Columbia, SC 29208

Ph.D. Dissertation:

“Utilization of Satellite-Derived Salinity to Study Indian Ocean Climate Variability”

RECENT COLLABORATORS

Subrahmanyam (Subra) Bulusu, University of South Carolina, Columbia, SC

Frederick M. Bingham, University of North Carolina Wilmington, Wilmington, NC

John M. Morrison, University of North Carolina Wilmington, Wilmington, NC

Ebenezer S. Nyadjro, University of New Orleans, New Orleans, LA

V. S. N. Murty, National Institute of Oceanography Regional Centre, Visakhapatnam, India

Jay F. Shriver, Naval Research Laboratory, Tennis Space Center, MS

Tong (Tony) Lee, Jet Propulsion Laboratory, Pasadena, CA