BREANNA ZAVADOFF, PhD

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EDUCATION

University of Miami Rosenstiel School of Marine and Atmospheric Science, Miami, FL
Doctor of Philosophy in Meteorology and Physical Oceanography, August 2020
GPA: 4.00
Honors: Dean's Fellowship

Stony Brook University, Stony Brook, NY
Bachelor of Science in Atmospheric and Oceanic Science, *Summa Cum Laude,* May 2016
Minor Degrees in Coastal Environmental Studies & Geospatial Science, May 2016
GPA: 3.99
Honors: Presidential Scholarship, University Scholars Program, Phi Beta Kappa, Provost Award for Academic Excellence, Petra M. Udelhofen Memorial Scholarship

EXPERIENCE

University of Miami Cooperative Institute for Marine & Atmospheric Studies, Miami, FL April 2022 – Present
Assistant Scientist

- Perform sub-seasonal predictability and hydrometeorological research using large observational, reanalysis, and climate model datasets
- Utilize critical thinking, problem solving, computer programming, etc. for deterministic and statistical data analysis and data visualization
- Collaborate with internal and external partners on research goals, methods, findings, and dissemination
- Publish findings in peer reviewed scientific journals and communicate results to diverse stakeholders including scientific and public audiences at national and international conferences
- Author research proposals to acquire funding for original research projects

NOAA/National Weather Service: Weather Prediction Center, College Park, MD August 2020 – March 2022
Meteorologist

- Perform 3-hourly North American surface analyses, forecast CONUS surface weather patterns out to 2.5 days, identify potential weather-related hazards affecting any part of the country 3 to 7 days in the future
- Consolidate information from a wide range of resources to make forecast decisions
- Quickly and accurately assess model information to incorporate into product development
- Compose plain language forecast discussions that are accessible to broader scientific and public audiences
- Collaborate with internal and external partners on a daily basis to develop products with consistent messaging

Rosenstiel School of Marine and Atmospheric Science, Miami, FL August 2016 – August 2020
Graduate Research Assistant

- Perform independent research in the field of atmospheric science using observational and climate model data
- Utilize a wide range of skills including critical thinking, problem solving, computer programming, and data analysis for deterministic and statistical data analysis and data visualization
- Publish findings in peer reviewed scientific journals
- Communicate results diverse stakeholders including scientific and public audiences at national and international conferences

PEER REVIEWED PUBLICATIONS

Zavadoff, B. L., K. Gao, H. Lopez, S.-K. Lee, D. Kim, and L. M. Harris, 2023: Improved MJO forecasts using the experimental global-nested GFDL SHiELD model. *Geophys. Res. Lett.*, e2022GL101622.

Zavadoff, B. L. and B. P. Kirtman, 2021: The Pacific decadal oscillation as a modulator of summertime North Atlantic Rossby wave breaking. *Clim. Dyn.*, **56**, 207-225.

Zavadoff, B. L. and B. P. Kirtman, 2020: Dynamic and thermodynamic modulators of European atmospheric rivers. *J.*

Climate, **33 (10)**, 4167-4185.

Zavadoff, B. L. and B. P. Kirtman, 2019: North Atlantic summertime anticyclonic Rossby wave breaking: Climatology, impacts, and connections to the Pacific decadal oscillation. *J. Climate*, **32 (2)**, 485-500.

PRESENTATIONS

Zavadoff, B. L., H. Lopez, S.-K. Lee, D. Kim, K.-Y. Cheng, K. Gao, J.-H. Chen, and L. M. Harris. Western US subseasonal atmospheric river prediction in the global-nested GFDL SHiELD model. Oral presentation at the Annual American Geophysical Union Meeting; December 9-13, 2024; Washington, DC.

Zavadoff, B. L., K. Gao, H. Lopez, S.-K. Lee, D. Kim, and L. M. Harris. Improved MJO forecasts using the experimental global-nested GFDL SHiELD model. Poster presentation at the 103rd Annual American Meteorological Society Meeting; January 8-12, 2023; Denver, CO.

Zavadoff, B. L. and B. P. Kirtman. Dynamic modulators of European atmospheric rivers. Oral presentation at the University of Miami Graduate and Postdoctoral Research Symposium, March 5, 2020; Miami, FL.

Zavadoff, B. L. and B. P. Kirtman. North Atlantic summertime anticyclonic Rossby wave breaking: Climatology, impacts, and connections to the Pacific decadal oscillation. Oral presentation at the European Geosciences Union General Assembly, April 7-12, 2019; Vienna, Austria.

Zavadoff, B. L. and B. P. Kirtman. Anticyclonic Rossby wave breaking over the North Atlantic during boreal summer: Climatology and impacts. Poster presentation at the 98th Annual American Meteorological Society Meeting; January 7-11, 2018; Austin, TX.

Zavadoff, B. L. and T. J. Galarneau Jr. Examining tropical cyclone development in the southwest Caribbean Sea. Oral presentation at the 41st Annual Northeastern Storms Conference; March 4-6, 2016; Saratoga Springs, NY.

Zavadoff, B. L. and T. J. Galarneau Jr. Examining tropical cyclone development in the southwest Caribbean Sea. Poster presentation at the 96th Annual American Meteorological Society Meeting; January 10-14, 2016; New Orleans, LA.

GENERAL AUDIENCE PUBLICATIONS

Zavadoff, B. L. and M. C. Arcodia. What are teleconnections? Connecting Earth's climate patterns via global information superhighways. *NOAA Climate.gov ENSO Blog.*

Zavadoff, B. L. Greenhouse gases strengthen atmospheric rivers. *Nature Climate Change News and Views*.

Zavadoff, B. L. Whitewater Rafting Down an Atmospheric River. *Seasoned Chaos Blog.*

SKILLS

- ArcMap (beginner)
- High Performance Computing
- Literature Review
- Microsoft Word, Power-Point & Excel
- NCAR Command Language (advanced)
- Oral and Written Communication
- Python (proficient)
- Public Speaking
- Preparing and Giving Presentations
- SQL (proficient)
- Technical Report Writing
- Unix/Linux