SNIGDHA SAMANTARAY

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EDUCATION

Graduate Research Assistant (PhD in Meteorology and Physical Oceanography) 2022 – Present

Rosenstiel School of Marine, Atmospheric, and Earth Science, University of Miami, FL, USA GPA - 3.739

5 year BS-MS dual degree (Major: Earth and Climate Sciences) 2016 – 2021

Indian Institute of Science Education and Research (IISER), Pune, Maharashtra, India CGPA - 7.8

RELEVANT COURSES

General Circulation of the Atmosphere, MPO 765 Spring 2023

Geophysical Fluid Dynamics II, MPO 711 Spring 2023

Geophysical Fluid Dynamics I, MPO 661 Fall 2022

Introduction to Atmospheric Dynamics, MPO 651 Fall 2022

Introduction to Atmospheric Physics, MPO 652 Fall 2022

RESEARCH EXPERIENCE

Investigating the water vapor lake forming over the western Indian Ocean 2022 – Present

Advisor: Dr. Brian Mapes, Department of Atmospheric Sciences, University of Miami, FL, USA

Compositing multiple cases of backward-tracked coast-crossing atmospheric CWV lakes using MERRA2 analysis and quantifying how much precipitation is enhanced in high-CWV vapor lake airmasses.

Characterization of Bulk Entrainment Proxy using CloudSat Observations 2020-21

Advisor: Dr. Suhas Ettammal, Department of Earth and Climate Science, IISER Pune, India

Quantified the bulk entrainment proxy of tropical anvil forming deep convective clouds by processing CloudSat dataset.

PROFESSIONAL DEVELOPMENT

Teaching Assistant, MSC 204 P: Environmental Statistics Fall 2024
University of Miami

NCAR ASP Summer Colloquium, The Atmospheric Boundary Layer Summer 2023
Boulder, CO, USA.

The 10th International Cloud Modeling Workshop 2021, Summer 2021
Indian Institute of Tropical Meteorology, Pune, India.

TECHNICAL SKILLS

Programming languages: FORTRAN 90, C (basics)

Scripting languages & software packages: Python, NCL, MATLAB, CDO, GrADS, Minitab

Tech: Git, BASH Scripting, PBS Cluster Script, Office Suite, LaTeX

Operating Systems: Windows and Linux