

Divya Rea

Education

Massachusetts Institute of Technology
Ph.D in Atmospheric Science

Began: Sept 2023
GPA: 5.00/5.00

University of Illinois Urbana-Champaign
B.S. in Atmospheric Science; *Minor in Philosophy*

May 2023
GPA: 3.99/4.00

Publications

Rea, D., Elsbury, D., Butler, A. H., Sun, L., Peings, Y., & Magnusdottir, G. (2024). Interannual influence of Antarctic sea ice on Southern Hemisphere stratosphere-troposphere coupling. *Geophysical Research Letters*, 51, e2023GL107478. <https://doi.org/10.1029/2023GL107478>

Rea, D., Rauber, R. M., Hu, H., Tessororf, S. A., Nesbitt, S. W., Jewett, B. F., & Zaremba, T. J. (2023). The contribution of subtropical moisture within an atmospheric river on moisture flux, cloud structure, and precipitation over the Salmon River Mountains of Idaho using moisture tracers. *Journal of Geophysical Research: Atmospheres*, 128, e2022JD037727. <https://doi.org/10.1029/2022JD037727>

Research Experience

Massachusetts Institute of Technology
PhD Student; Talia Tamarin-Brodsky

Aug 2023 – Present

University of Illinois at Urbana-Champaign
Undergraduate Research Assistant

Aug 2020 – Aug 2023

NOAA Chemical Sciences Laboratory
2021 NOAA Hollings Scholar

June 2022 – Aug 2022

National Center for Atmospheric Research
Research Applications Lab Summer Student Collaborator

May 2021 – Aug 2021

Formal Presentations

Polar Amplification Model Intercomparison Project Phase 2 Workshop
Oral Presentation

Oct 2024

24th Conference on Atmospheric and Oceanic Fluid Dynamics
Poster Presentation

June 2024

School of Earth, Society, and Environment Research Review
Oral Presentation and Poster Presentation

Feb 2023

4th International Atmospheric River Conference
Oral Presentation

Oct 2022

Midwest Student Conference for Atmospheric Research
Oral Presentation

Oct 2022

Collective Madison Meeting
16th Conference on Cloud Physics
Poster Presentation

Aug 2022

20th Conference on Mountain Meteorology
Oral Presentation

June 2022

School of Earth, Society, and Environment Research Review Poster Presentation	Feb 2022
102nd American Meteorological Society Annual Meeting 23 rd Conference on Planned and Inadvertent Weather Modification Oral Presentation	Jan 2022
Midwest Student Conference for Atmospheric Research Oral Presentation	Sept 2021
National Center for Atmospheric Research Summer Poster Symposium Poster Presentation	Aug 2021
School of Earth, Society, and Environment Research Review Poster Presentation	March 2021
American Meteorological Society Student Conference 2021 Poster Presentation Outstanding Undergraduate Student Poster	Jan 2021

Awards & Scholarships

Presidential Graduate Fellowship MIT	Sept 2023
Jule Charney Prize Outstanding Incoming Graduate Student, MIT	Aug 2023
Bronze Tablet Top 3% of Class of 2023 at UIUC	May 2023
Outstanding Senior Top Senior, Department of Atmospheric Sciences, UIUC	April 2023
Member of Phi Beta Kappa Inducted Junior Year	May 2022
Mankin Mak Scholarship Top Junior; Department of Atmospheric Sciences, UIUC	April 2022
NOAA Ernest F. Hollings Undergraduate Scholarship Class of 2021	April 2021
Outstanding Undergraduate Student Poster 101 st AMS Student Conference	Jan 2021

Teaching and Outreach

Discover Earth, Atmospheric, and Planetary Sciences Graduate Teaching Assistant; MIT	Aug 2024
Weather Forecasting and Storm Dynamics Workshop Graduate Instructor; MIT	Jan 2024
ATMS 120: Severe and Hazardous Weather Undergraduate Teaching Assistant; UIUC	Aug 2020 – Oct 2020

Skills Summary

- Proficient in compiling and running numerical weather prediction models
- Comfortable manipulating and analyzing large datasets
- Experienced in Python for data analysis and visualization
- Familiar with R for statistical analysis
- Familiar with Matlab for data visualization

- Experience speaking with live audiences, television, and print media