

Raul Antonio Moreno

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EDUCATION

University of Washington, Seattle, WA <i>Ph.D. in Atmospheric Sciences</i>	Sep 2022–Present
Indiana University Bloomington, Bloomington, IN <i>B.S. in Atmospheric Science, B.A. in International Law and Institutions</i> Minors in Math and Chinese	Aug 2018–May 2022

AWARDS AND HONORS

NASA FINESST Fellow	2025–Present
ARCS Scholar	2022–2025
Sheldon Turner Geological Sciences Award	2021
Herman B. Wells Scholarship	2018–2022

RESEARCH EXPERIENCE

University of Washington, Department of Atmospheric Sciences	
Graduate Research Assistant	2022–Present
Developed artificial intelligence methods for Earth system modeling. Processed large model- and observation-derived datasets.	

NSF Research Experience for Undergraduates, NEPARS	
Undergraduate Researcher	2021
Studied meteorological trends in visibility for aviation using station data over Alaska.	

U.S. State Department, Diplomacy Lab	
Undergraduate Researcher	2020
Researched volcanic hazards across Mexico and contributed to the production of a GIS database of other natural hazards.	

Indiana University Bloomington	
Undergraduate Research Assistant	2020–2022
Evaluated radiative transfer model simulations of marine cloud brightening scenarios.	

SELECTED PRESENTATIONS & PUBLICATIONS

- **Moreno, R. A.**, Durran, D. R. *Moving beyond parameterized precipitation processes using holistic machine learning and satellite observations.* AGU Meeting, 2025. [Talk]
- **Moreno, R. A.**, Durran, D. R. *Moving beyond parameterized precipitation processes using holistic machine learning and satellite observations.* In prep.

- Cresswell-Clay, N., Liu, B., Durran, D. R., Liu, Z., Espinosa, Z. I., **Moreno, R. A.**, and Karlbauer, M. *A Deep Learning Earth System Model for Efficient Simulation of the Observed Climate*. AGU Advances <https://doi.org/10.1029/2025AV001706>
- Karlbauer, M., Cresswell-Clay, N., Durran, D. R., **Moreno, R. A.**, Kurth, T., Bonev, B., Brenowitz, N., and Butz, M. *Advancing Parsimonious Deep Learning Weather Prediction Using the HEALPix Mesh*. Journal of Advances in Modeling Earth Systems <https://doi.org/10.1029/2023MS004021>