

Isabel L. McCoy

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Citizenship: United States of America

Education

- 2017–2020 **Ph.D., Atmospheric Science** (3.91/4.0), University of Washington
Diss.: *A synthesis of observations of aerosol-cloud interactions over the pristine, biologically active Southern Ocean and the implications for global climate model predictions*
Supervisors: Robert Wood & Christopher S. Bretherton
- 2014–2017 **M.S., Atmospheric Science** (3.90/4.0), University of Washington (UW)
Thesis: *Identifying meteorological controls on open and closed mesoscale cellular convection associated with marine cold air outbreaks*
Supervisor: Robert Wood
- 2009–2014 **B.S., Physics with Atmospheric Option and Mathematics Minor** (4.0/4.0),
New Mexico Institute of Mining and Technology (NMIMT)

Professional Experience

- 2024 – Present **Research Scientist II** — *Boundary Layer Cloud Modeling*
Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado Boulder
Team Lead: Graham Feingold, NOAA Chemical Sciences Laboratory (CSL)
- 2022 – 2024 **Research Scientist I** — *Boundary Layer Cloud Modeling*
CIRES, University of Colorado Boulder
Team Lead: Graham Feingold, NOAA CSL
- 2020 – 2022 **NOAA Climate and Global Change Postdoctoral Fellow**
Mentors: Paquita Zuidema, University of Miami, & Peter Blossey, UW
- Summer 2020 **Postdoctoral Researcher**
Mentors: Robert Wood & Christopher S. Bretherton, UW
- 2014 – 2020 **Graduate Research Assistant**
Supervisors: Robert Wood & Christopher S. Bretherton (2017 – 2020), UW
- 2012 – 2013 **Undergraduate Research Student**
Supervisors: Robert Wood & Andreas Muehlbauer, JISAO (Joint Institute for the Study of the Atmosphere and Ocean, now CICOES), UW
- Summer 2012 **Undergraduate Intern**
Supervisors: Robert Wood & Andreas Muehlbauer, JISAO Summer REU, UW

Key Metrics

Select Honors: AMS Graduate Fellowship (2014), NSF Graduate Research Fellowship ('14), Desert Research Institute Peter B. Wagner Memorial Award ('18), NOAA Climate and Global Change Postdoctoral Fellowship ('20), DOE ARM Annual Report Research Highlight (2025), Elected conference co-chair for Gordon Research Seminar on Radiation and Climate ('23 for '25) and Telluride Workshop on Aerosols and Clouds ('24 for '26)

Publications: h-index: 15, i10-index: 19, peer-reviewed: 30, submitted: 2, in-prep: 4, first authored: 9

Presentations: invited: 14, seminars: 10, contributed: 49

Field Campaign Involvement: CSET (2015), SOCRATES ('18), ACE-ENA ('17-8), ATOMIC/EUREC⁴A ('20)

Teaching and Mentoring: courses: 3, guest lectures: 4, formal research mentees: 1