

Di Chen

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EDUCATION

Ph.D., Atmospheric Science

May 2019 (expected)

University at Albany, SUNY

Advisor: Prof. Aiguo Dai

Dissertation: *Precipitation Characteristics in Observations and Climate Models and Their Dependence on Data Resolution*

B.S., Atmospheric Science

2014

Ocean University of China

Thesis: *Current and Future Changes of The North Atlantic Oscillation in ECHAM6*

EMPLOYMENT

Graduate Research Assistant

2014-present

University at Albany, SUNY

Advisor: Prof. Aiguo Dai

- Investigated precipitation characteristics in satellite observations and their dependence on data resolution
- Designed and conducted model experiments to investigate precipitation characteristics in CESM1 and their dependence on data resolution and model physics
- Analyzed precipitation characteristics using CMIP5 model outputs

Graduate Teaching Assistant

2015-2017

University at Albany, SUNY

Courses:

- Oceanography; Atmospheric Measurement; Climate Change; Atmospheric Physics

HONORS & AWARDS

AGU Outstanding Student Paper Award

2016

Outstanding B.S. Thesis

2014

Ocean University of China

PUBLICATIONS

✧ *Published*

Chen, D., and A. Dai, 2018: Dependence of estimated precipitation frequency and intensity on data resolution, *Climate Dynamics*, **50**, 3625–3647. <https://doi.org/10.1007/s00382-017-3830-7>.

✧ *Submitted or In Revision*

Chen, D., and A. Dai, 2018: Precipitation characteristics in the Community Atmosphere Model and their dependence on model physics and resolution, *Journal of Advances in Modeling Earth Systems*, in revision.

PRESENTATIONS

✧ *Invited Talk*

Chen, D., 2019: Precipitation Characteristics and Their Dependence on Data Resolution and Model Physics. Lawrence Berkeley National Laboratory, Berkeley, CA.

✧ *Conferences*

Chen, D., and A. Dai, 2018: Precipitation Characteristics in the Community Atmosphere Model and their Dependence on Model Physics and Resolution. Poster, *2018 Fall Meeting, AGU*, Washington, D.C.

Chen, D., and A. Dai, 2016: Estimates of Global Precipitation Frequency and Intensity and their Dependence on Data Resolution. Lightning talk & Poster, *2016 Fall Meeting, AGU*, San Francisco, CA.

PROFESSIONAL SERVICE

Reviewer for *Journal of Geophysical Research-Atmospheres*
International Journal of Climatology

TECHNICAL SKILLS

Operating Systems

Familiar with Windows, UNIX

Programming & Scripting Languages

Proficient in NCL, Python, Fortran,

Unix Shell Scripting, R, GrADS

Datasets

Familiar with TRMM, CMORPH, GPM,
GPCP, CPC, NCEP Stage IV, CMIP5 Archive

Models

Familiar with NCAR CESM1
Some experience with WRF-ARW