

CHENGFENG FENG

Department of Atmospheric Sciences
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RESEARCH INTERESTS

Data Assimilation, Satellite, All-Sky DA, Tropical Cyclones, African Easterly Wave, Tropical Convections, Vortex Tracking, Machine Learning.

SKILLS

Languages: Python, Fortran, Matlab, NCL, HTML.
Systems: GSI, WRF, HWRF.

EDUCATION

- 9/2018 - 5/2024 **Ph.D., Atmospheric Sciences, the University of Utah**, Utah, United States
Advisor: Dr. Zhaoxia Pu
- 9/2015 - 8/2018 **M.S., Meteorology, Key Laboratory of Mesoscale Severe Weather, Nanjing University**, Nanjing, China
Thesis: Interdecadal Change of Tropical Cyclone Activity in the Western North Pacific
Advisor: Dr. Juan Fang
- 9/2011 - 8/2015 **B.S., Atmospheric Sciences, Kuang Yaming Honors Class'11, Nanjing University**, Nanjing, China

HONOR AND AWARDS

- 2023 **First Place Oral Presentation** at the 27th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS) during the 103rd AMS annual meeting
- Edward J. Zipser Award for Excellence in Graduate Research Award** in the Department of Atmospheric Sciences at the University of Utah
- 2016, 2017 The First-Class Graduate Student Scholarship

ARTICLES IN PEER-REVIEWED JOURNALS

- 2023 Feng, C., & Pu, Z. (2023). The impacts of assimilating Aeolus horizontal line-of-sight winds on numerical predictions of Hurricane Ida (2021) and a mesoscale convective system over the Atlantic Ocean. *Atmospheric Measurement Techniques*, 16(10), 2691-2708. DOI
- 2022 Feng, C., & Pu, Z. (2022). A Bias Correction Scheme with the Symmetric Cloud Proxy Variable and Its Influence on Assimilating All-Sky GOES-16 Brightness Temperatures. *Monthly Weather Review*, 150(12), 3305-3323. DOI

PROFESSIONAL MEMBERSHIPS

- 2018 - Present Member of American Meteorological Society (AMS)