CHENGFENG FENG

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Homepage
Github
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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.

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

ACTICLES IN PEER-REVIEWED JOURNALS

In Preparation All-Sky Assimilation of GOES-16 Water Vapor Channels with Accounting for Cloud-Dependent Variations of Inter-Channel Correlations

The Impacts of Assimilating DAWN and HALO on Numerical Simulations of Tropic Convections in AEWs During NASA CPEX-CV

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)