CHENGFENG FENG

Department of Atmospheric Sciences
The University of Utah
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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: A bias correction scheme with the symmetric cloud proxy variable and its influence on assimilating all-sky GOES-16 brightness temperatures

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)