

EDUCATION

- **Nanjing University** Nanjing, China
Ph.D. - Atmospheric Science Sep 2021 - present
Advisor: Prof. Lili Lei
- **Nanjing University** Nanjing, China
B.S. - Atmospheric Science Sep 2017 - Jun 2021

RESEARCH EXPERIENCE

- **Research Assistant** Nanjing University
Non-Gaussian ensemble filter in Radiance assimilation Jul 2023 - Jun 2024
 - Construct DART quantile-conserving assimilation system into a WRF-LES OSSE case.
 - Test DART non-Gaussian filters in assimilating all-sky infrared radiance into LES scale WRF model.*VOC assimilation strategy in Chemical Transport Model* Sep 2021 - Jun 2023
 - Constructed VOC concentration-emission assimilation system in WRF-CHEM model.
 - Developed VOC selection strategy for assimilating station observations.
 - Poster presentation in Atmospheric Environmental Remote Sensing Society(AERSS) Annual Meeting 2023.
- **Undergraduate Research Assistant** Nanjing University
East Asian Summer Monsoon Rainfall and the Associated Atmospheric Circulations Mar 2019 - Sep 2020

PUBLICATIONS

- **Ju, H.**, Lei, L., Anderson, J. L., Zhou, L., Tan, Z., and Zhang, Y. "A Probit-transformed Rank Histogram Filter for All-sky Infrared Radiance Assimilation", *Journal of Advances in Modeling Earth Systems*, 2024 (under review)

PRESENTATIONS

- 1st Atmospheric Environmental Remote Sensing Society(AERSS) Annual Meeting, Wuhan, China, 2023 (poster)
- Summer School of Data Assimilation for Geoscience, Nanjing, China, 2023 (poster)

TEACHING

- **Teaching Assistant** Nanjing University
Graduate Course: Data Assimilation Fall 2022

AWARDS

- People's Scholarship - 2018, 2019, 2020
- Tiangong International Scholarship - 2024

SKILLS

- **Programming**
Python(numpy/scipy/xarray)/MATLAB/Shell scripts(cshell/bash shell)/Fortran
- **Sports** Nanjing University
Team member of Nanjing University Cycling Racing Team May 2024 - present
- **Language**
Chinese: native/English: bilingual/Japanese: JLPT N2