Haoxing Ju

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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 2016 - 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*