

DUZITIAN LI

Nanjing University, 163 Xianlin Road, Qixia District ◇ Nanjing, Jiangsu, China

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EDUCATION

Nanjing University (NJU)

M.S. in atmospheric science

-Advisor: Prof. Wei Nie, Nanjing University

-Co-Advisor: Dr. Xu-Cheng He, University of Cambridge

Nanjing, Jiangsu, China

2021.09 - 2024.06

Nanjing University (NJU)

B.S. in atmospheric science

Thesis Title: Atmospheric gaseous iodine oxoacids in urban Nanjing, China: detection and sources

-Advisor: Prof. Wei Nie, Nanjing University

-Co-Advisor: Dr. Xu-Cheng He, University of Cambridge

Nanjing, Jiangsu, China

2017.09 - 2021.06

Related Courses: Dynamic Meteorology, Atmospheric Chemistry and Experiment, Advanced Atmospheric Science, Theory and Model of Atmosphere Environment and Hydrometeorology

PUBLICATION

1. **Li, D.**, Nie, W., Liu, Y., Ge, D., Zha, Q., Liu, C., Wang, J., et al. Field evidence of nocturnal multiphase production of iodic acid. *Environmental Science & Technology Letters*, accepted.
2. Zhang, Y.*, **Li, D.***, He, X. C., Nie, W., Deng, C., Cai, R., Liu, Y., Guo, Y., Liu, C., Li, Y., et al. (2024). Iodine oxoacids and their roles in sub-3 nanometer particle growth in polluted urban environments. *Atmospheric Chemistry & Physics*, 24(3). (*Equal contribution)
3. Ge, J., Qiu, B., Chu, B., **Li, D.**, Jiang, L., Zhou, W., Tang, J., and Guo, W. (2021). Evaluation of coupled regional climate models in representing the local biophysical effects of afforestation over continental china. *Journal of Climate*, 34, 9879–9898.

RESEARCH EXPERIENCE

School of atmospheric sciences, NJU

Research Assistant, Mentored by Prof. Wei Nie and Dr. Xu-Cheng He

2021.09 - 2024.06

Experimental Study of Iodic Acid Formation

- Addressed key inquiries in atmospheric iodine chemistry under NO_x -polluted conditions.
- Demonstrated the robust production of iodic acid in polluted air.

Field Measurement of Iodic Acid

- Uncovered the widespread presence of iodine oxoacids in urban environments.
- Investigated the origins of iodine oxoacids.

National Undergraduate Innovation Program, NJU

Group Member, advised by Prof. Weidong Guo and Dr. Jun Ge

2019.09 - 2020.05

- Developed an evaluation method to assess the performance of three coupled regional models.
- Utilized Regional Climate Model (RegCM), Weather Research and Forecasting (WRF) Model, and high-resolution WRF Model (WRF-CP) to replicate local biophysical impacts of afforestation across East Asia.

Scientific Research Excursion, NJU 2019.08 - 2019.09
Research Assistant (Summer Intern), advised by Prof. Zhenke Zhang and Dr. Hang Ren

- Visited five major cities of Morocco and obtained meteorological records.
- Drafted a comprehensive final report on the precipitation variations in Morocco over the past three decades and their implications on agricultural progress.

Earth System Science Internship,NJU 2018.07 - 2018.08
Group Member

- Engaged in insightful field trips within Jiangsu Province guided by professors from multiple backgrounds.
- Contributed to compile a report that offers a system science-based exploration of the geophysical features of Jiangsu Province.

SKILLS

Language	Chinese (mandarin), English (TOEFL: 107)
Programming	Matlab, Igor, C, Fortran
Mass Spectrometer Data Analysis	tofTool and Tofware
Kinetic Modeling	F0AM

SCHOLARSHIP

Master's Second-Class Scholarship	NJU, 2022 & 2023
Master's First-Class Freshmen Scholarship	NJU, 2021
Undergraduate People's Scholarship	NJU, 2019 & 2020

EXTRA-CURRICULAR

Member of a literature club named 'GAZED EYES' and won the first prize in the club's essay competition for two consecutive years(2018,2019).

Member of school's debate team and won the third prize at NJU's debate contest in 2018.

Deputy director of an organization named 'College Literature Creation Center of Jiangsu Province' from 2018 to 2019.

Pursued German as second language and took German classes for one year and a half from 2017-2018.