

JUN GU

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🎓 EDUCATION

University of Science and Technology of China (USTC), Hefei, China 2020 – Present
Doctoral student in Geophysics, expected June 2025

University of Science and Technology of China (USTC), Hefei, China 2016 – 2020
B.S. in Atmospheric Science

📖 PUBLICATIONS

1. **Gu, J.**, Feng, J., Hao, X., Fang, T., Zhao, C.*, An, H.*, et al. (2022). Establishing a non-hydrostatic global atmospheric modeling system at 3-km horizontal resolution with aerosol feedbacks on the Sunway supercomputer of China. *Science Bulletin*. doi:10.1016/j.scib.2022.03.009
2. Hao, X., Fang, T., Chen, J., **Gu, J.**, Feng, J., An, H.*, Zhao, C.* (2023). swMPAS-A: Scaling MPAS-A to 39 Million Heterogeneous Cores on the New Generation Sunway Supercomputer. *IEEE Transactions on Parallel and Distributed Systems*. doi:10.1109/TPDS.2022.3215002
3. Xu, M., Zhao, C.*, **Gu, J.**, Feng, J., Hagos, S., Leung, L. R., et al. (2021). Convection Permitting Hind-casting of Diurnal Variation of Mei yu Rainfall Over East China With a Global Variable Resolution Model. *Journal of Geophysical Research: Atmospheres*. doi:10.1029/2021JD034823
4. Xu, M., Zhao, C.*, **Gu, J.**, Feng, J., Li, G., Guo, J. (2023). Appropriately representing convective heating is critical for predicting catastrophic heavy rainfall in 2021 in Henan Province of China. *Environmental Research Communications*. doi:10.1088/2515-7620/acccfec
5. Liu, W., Zhao, C.*, Xu, M., Feng, J., Du, Q., **Gu, J.**, et al. (2023). Southern Himalayas rainfall as a key driver of interannual variation of pre-monsoon aerosols over the Tibetan Plateau. *Npj Climate and Atmospheric Science*. doi:10.1038/s41612-023-00392-5
6. Zhang, S., Xu, S., Fu, H., Wu, L., Liu, Z., Gao, Y., et al. (2023). Toward Earth System Modeling with Resolved Clouds and Ocean Submesoscales on Heterogeneous Many-Core HPCs. *National Science Review*. doi:10.1093/nsr/nwad069

👤 EXPERIENCE

USTC Hefei, China 2019 Spring
Electrodynamics Undergraduate Teaching Assistant

⚙️ SKILLS

- Programming Languages: Fortran == NCL > Bash == Python > Julia == C
- Platform: Linux, MacOS, Windows
- Languages: Mandarin - Native speaker, English - Sufficient
- Softwares: Git, Markdown, Microsoft Office, Overleaf

♥️ HONORS AND AWARDS

National Scholarship for Graduate Students Oct. 2022
Outstanding Undergraduate Graduation Thesis at USTC July. 2020

📄 MISCELLANEOUS

- ResearchGate: <https://www.researchgate.net/profile/Jun-Gu-29>
- GitHub: <https://github.com/1JunGu>