HENG QUAN (权衡)

Atmospheric and Oceanic Sciences Program, Princeton University, US

E-mail: hengquan@princeton.edu
Personal website: https://heng-quan.github.io

EDUCATION

Princeton University Sep. 2022 - now

PhD in Atmospheric and Oceanic Sciences Program

Peking University Sep. 2018 - Jul. 2022

Bachelor of Atmospheric Sciences (School of Physics)

- Overall GPA: 3.85/4.00 or 91/100
- Ranking: 9/176, top 5% (physics school) or 1/14 (atmospheric sciences department)

PUBLICATIONS

Quan, H., Zhang, Y., & Fueglistaler, S. Weakening of tropical free tropospheric temperature gradients with global warming (under review).

Quan, H., Koll, D., Lutsko, N., & Yuval, J. Optimal Solar Geoengineering Strategies Based on Reinforcement Learning (submitted).

Quan, H., Fueglistaler, S., Zhang, B., & Wang, C. The Sea Surface Temperature Pattern Effect on Outgoing Longwave Radiation: the Role of Large-scale Convective Aggregation. (submitted).

Quan, H., Fueglistaler, S., Zhang, B., & Wang, C. (2024). Non-linear radiative response to patterned global warming due to convection aggregation and non-linear tropical dynamics. *Journal of Climate*.

Quan, H., Zhang, B., Bourguet, S., Linz, M., & Chen, G. (2023). How Do Different Processes Shape Temperature Probability Distributions? A Percentile-averaged Temperature Tendency Decomposition. *Journal of Climate*, 1-36.

Quan, H., Chai, W., & Fu, Z. (2022). Asymmetry of daily mean temperature series over China and its frontal mechanism. *International Journal of Climatology*, 42(3), 1828-1840.

Chai, W., Huang, Y., Yang, L., **Quan, H.**, & Fu, Z. (2021). Evaluation of re-analyses over China based on the temporal asymmetry of daily temperature variability. *Theoretical and Applied Climatology*, 1-13.

PRESENTATIONS

ICDM Workshop 2024, Nanjing	October 2024
Weaker temperature gradient in a warmer climate	(oral)
AOFD 2024, Burlington	June 2024
Weaker temperature gradient in a warmer climate	(oral)
CFMIP 2024, Boston	June 2024
SST pattern effect on OLR: The role of convection aggregation	(oral)
AGU 2023, San Francisco	December 2023
Non-linear radiative response to patterned global warming due to convection aggregation	(oral)
Gordon Research Conference on Radiation and Climate 2023, Maine	July 2023
Non-linear radiative response to patterned global warming due to convection aggregation	(poster)

CFMIP-GASS 2023, Paris

Non-linear radiative response to patterned global warming due to convection aggregation

July 2023 (poster)

AWARDS & HONORS

National Scholarship (top 1% among 176 students, 2021)

Merit Student Pacesetter (2021)

POSCO Asia Scholarship (top 3% among ~180 students, awarded three times in 2019,2020 and 2021)

Outstanding bachelor student in Beijing (10 among 176 students, 2022)

Weiming bachelor student (7 among 176 students, 2022)

EXTRACURRICULAR ACTIVITIES

Was the **leader of Peking University GO Chess Team** for 2 years, and won **2 champions** in Beijing GO Chess University League, 2019-2021

Was the **president of Peking University GO Chess Club** for 2 years, and organized weekly club activities and the annual PKU GO Chess Cup, 2019-2021