# HENG QUAN (权衡)

Atmospheric and Oceanic Sciences Program, Princeton University, US

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### **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 (submitted to *Journal of the Atmospheric Sciences*).

**Quan, H.**, Fueglistaler, S., Zhang, B., & Wang, C. Non-linear radiative response to patterned global warming due to convection aggregation and non-linear tropical dynamics (2<sup>nd</sup> revision under review in *Journal of Climate*).

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

**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**

TRESERVITATIONS	
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	July 2023
Non-linear radiative response to patterned global warming due to convection aggregation	(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