

Zhe Li

🏠 201 Forrestal Road, Princeton, NJ 08540

✉ zli1995114@gmail.com

🌐 <https://www.linkedin.com/in/zhe-li-a4661b141/>

Employment History

- 09/2024 – present 📌 **Postdoctoral Researcher** UCAR CPAESS/NOAA GFDL
- 09/2018 – 06/2024 📌 **Graduate Student Researcher** Earth Research Institute, University of California, Santa Barbara
- 03/2019 – 06/2023 📌 **Teaching Assistant** Department of Geography, University of California, Santa Barbara

Education

- 09/2018 – 06/2024 📌 **Ph.D., University of California, Santa Barbara** Marine Science
Emphasis in Climate Sciences and Climate Change
Committee: *Dr. Qinghua Ding (chair), Dr. Tim DeVries, Dr. Charles Jones*
Thesis title: *The Impact of Large-Scale Circulation on Recent Rapid Climate Changes in High Northern Latitudes*
- 09/2020 – 06/2024 📌 **M.A., University of California, Santa Barbara** Statistics
- 09/2016 – 06/2018 📌 **B.S., University of Tasmania** Marine and Antarctic Science, First Class Honours
- 09/2014 – 06/2016 📌 **B.S., Ocean University of China** Marine Science

Research Publications

- 1 Ballinger, T. J., Moore, K., Ding, Q., Butler, A. H., Overland, J. E., Thoman, R. L., Baxter, I., **Li, Z.**, & Hanna, E. (2024). Simultaneous bering sea and labrador sea ice melt extremes in march 2023: A confluence of meteorological events aligned with stratosphere-troposphere interactions. *Weather and Climate Dynamics, In Revision*.
- 2 **Li, Z.**, & Ding, Q. (2024). A global poleward shift of atmospheric rivers. *Science Advances, In press*.
- 3 **Li, Z.**, Ding, Q., Ballinger, T. J., Topál, D., & Baxter, I. (2024). Atmospheric-driven processes in shaping long-term climate variability in greenland and the broader subpolar north atlantic. *Journal of Climate, In Revision*.
- 4 Wang, Z., Ding, Q., Wu, R., Ballinger, T. J., Guan, B., Bozkurt, D., Nash, D., Baxter, I., Topál, D., **Li, Z.**, et al. (2024). Role of atmospheric rivers in shaping long term arctic moisture variability. *Nature Communications, 15(1), 5505*.
- 5 **Li, Z.**, Ding, Q., Steele, M., & Schweiger, A. (2022). Recent upper arctic ocean warming expedited by summertime atmospheric processes. *Nature communications, 13(1), 362*.
- 6 Topál, D., Ding, Q., Ballinger, T. J., Hanna, E., Fettweis, X., **Li, Z.**, & Pieczka, I. (2022). Discrepancies between observations and climate models of large-scale wind-driven greenland melt influence sea-level rise projections. *Nature Communications, 13(1), 6833*.

Skills

Languages 📌 Strong reading, writing and speaking competencies for English, Mandarin Chinese

Skills (continued)

- Coding **📌** Python, Fortran, Matlab, R, JAVA, SQL, GRADS, L^AT_EX, ...
- Knowledge **📌** Large-scale Climate Dynamics, Climate Modeling (CESM), Big Climate Data (CMIP5/6), Machine Learning (ANN, CNN, KNN, etc.), Geo-spatiotemporal Analysis, Remote Sensing, Statistical Models

Talks and Conferences

Invited Talks

- 2022 **📌** **BGC Seminar, University of Bristol**, “Recent Upper Arctic Ocean Warming Expedited by Summertime Internal Atmospheric Processes”
- 2021 **📌** **Climate Meeting, University of California, Santa Barbara**, “Recent Upper Arctic Ocean Warming Expedited by Summertime Internal Atmospheric Processes”

Conferences

- 2022 **📌** **16th Graduate Climate Conference**, Pack Forest, CA. “Recent Upper Arctic Ocean Warming Expedited by Summertime Internal Atmospheric Processes” [POSTER]
- 2021 **📌** **American Meteorological Society’s 16th Conference on Polar Meteorology and Oceanography**, Remote. “Recent Upper Arctic Ocean Warming Expedited by Summertime Internal Atmospheric Processes” [ORAL]
- 2020 **📌** **AGU20 Fall Meeting**, Remote. “Recent Upper Arctic Ocean Warming Expedited by Summertime Internal Atmospheric Processes” [POSTER]
- 2019 **📌** **AGU19 Fall Meeting**, Remote. “An Atmospheric Driver of the Upper Ocean Heat Content in the Arctic” [POSTER]
- 📌** **American Meteorological Society’s 15th Conference on Polar Meteorology and Oceanography**, Boulder, CO. “An Atmospheric Driver of the Upper Ocean Heat Content in the Arctic” [ORAL]

Trainings and Workshops

- 2022 **📌** **CESM Tutorial**, NCAR Mesa Lab, Boulder, CO
- 📌** **Trustworthy Artificial Intelligence for Environment Science (TAI4ES) Summer School**, Virtual
- 📌** **The 27th CESM Annual Workshop**, Virtual
- 2020 **📌** **Data Science Training for Arctic Researchers**, The Arctic Data Center, Santa Barbara, CA
- 📌** **The 25th CESM Annual Workshop**, Virtual
- 2019 **📌** **ICESat-2 Hackweek**, University of Washington, Seattle, WA








Awards, Fellowships, and Honors

- 2023 **📌** **Graduate Division Dissertation Fellowship, UC Santa Barbara**
- 2022 **📌** **IGPMS Summer Block Grant Stipend for Research, UC Santa Barbara**
- 📌** **Graduate Division ARP Summer Grant, UC Santa Barbara**
- 📌** **CESM Tutorial Travel Support, NCAR**




Awards, Fellowships, and Honors (continued)

- 2021  Graduate Student Association Travel Grant, UC Santa Barbara
- 2021  IGPMS Summer Block Grant Stipend for Research, UC Santa Barbara
- 2020  IGPMS Summer Block Grant Stipend for Research, UC Santa Barbara
- 2019  Graduate Student Conference Travel Fellowship, Earth Research Institute, UC Santa Barbara
- 2018  ICESat-2 Hackweek Travel Fellowship
- 2018  IGPMS Fall Block Grant Stipend for Research, UC Santa Barbara
- 2018  International Doctoral Recruitment Fellowship, UC Santa Barbara
- 2018  First Class Honours, University of Tasmania
- 2016  Outstanding Student Scholarship (Grade 2), Ocean University of China

Teaching and Mentoring Experience

- Research Mentor**  UCSB Research Mentorship Program, Summer 2022
- Teaching Assistant**  Geography 115C: Remote Sensing of the Environment 3, Spring 2023
- Teaching Assistant**  Geography 115B: Remote Sensing of the Environment 2, Winter 2023
- Teaching Assistant**  Geography 115A: Remote Sensing of the Environment, Fall 2022
- Teaching Assistant**  Geography 119: Climate Change, Summer 2022
- Teaching Assistant**  Geography 5: People, Place, and Environment, Spring 2020
- Teaching Assistant**  Geography 113: Polar Environments, Spring 2019

Service and Outreach

- 2022  **SWEX Sundowner Winds Experiment**, Santa Barbara, CA
- 2024-present  **Reviewer for journal:** Polar Science
-  **Moderator** for submitted preprints at EGUsphere

References

Available on Request