

Zhibo Li (李智博)

PhD Candidate

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PERSONAL

Date of Birth: June 1994, Heilongjiang Province, China

Web of Science Researcher ID: AAK-4293-2020

[Google Scholar](#) [Research Gate](#) [Publons](#) [ORCID](#)

Address: No. 209 Chengfu Road, Haidian, Beijing, China

EDUCATION

2012.09-2016.06, B.S., Nanjing University of Information Science & Technology, Nanjing.

Major: Atmospheric Science

Thesis: Relationship between ENSO and precipitation in Papua New Guinea.

Advisor: Professor Li Tao

2016.09-2019.06, M.S., Nanjing University of Information Science & Technology, Nanjing.

Major: Meteorology

Thesis: Relative roles of dynamic and thermodynamic processes in causing positive and negative global mean SST trends during the past 100 years.

Advisors: Prof. Tim Li and Dr. Ying Sun (National Climate Center, China)

2020.09-Now, Ph.D., Peking University, Beijing.

Major: Atmospheric Science (Physical Oceanography)

Thesis: Land-sea distributions dominate the evolution of the arid-humid region since Pangea.

Advisor: Prof. Yongyun Hu

WORK EXPERIENCES

2019.08-2020.08, Research Assistant, Institute of Atmospheric Physics, Chinese Academy of Sciences.

Advisor: Prof. Wen Chen

TEACHING EXPERIENCES

2021.09-2022.01, TA, 36hours, Weather analysis and forecast, Department of Atmospheric and Oceanic Sciences, School of Physics, Peking University

RESEARCH INTERESTS

Paleoclimatology; Global Warming; Monsoon; Aridity; Wind Speed; Climate Model; Atmospheric Teleconnection; Interdecadal Pacific Oscillation

AWARDS

2022 The Third Prize of Peking University Scholarship (@PKU)

2022 Award for Scientific Research (@PKU)

2020 Excellent Master's Thesis (@NUIST)

2018 The Second Prize University's Scholarship (@NUIST)

SCIENTIFIC PAPERS

Corresponding author ()*

Co-first author (#)

Google Scholar (2023/4/13): Citations: 108, H-index: 6

In preparation

1. **Zhibo Li**, Yongyun Hu*, Jun Yang, xxx. The evolution of PNA during the past 70 million years. To be submitted to *GPC*
2. Peng Hu, Wen Chen*, **Zhibo Li**, et al. Distinct features of tropical synoptic-scale waves: before and after the SCSSM onset. To be submitted to *JC*

Under review

1. Shiwei Jiang, Xin Zhou*, **Zhibo Li**, et al. Increased effective radiative forcing enhanced the modulating effect of Pacific Decadal Oscillation on late Little Ice Age precipitation in Jiang-Huai region, China. Submitted to *Climate Dynamics*
2. Cheng Shen#, **Zhibo Li**#, Fei Liu, Deliang Chen*. Robust reduction in subtropical terrestrial near-surface wind speed after tropical volcanic eruptions. Submitted to *Science*
3. Cheng Shen, Huishuang Yuan, **Zhibo Li**, et al. Hiatus of near-surface wind speed in March over China since 2011. Submitted to *GRL*
4. **Zhibo Li**, Yongyun Hu*, Qiang Fu, et al. Terrestrial aridity and dryland evolutions since Pangea. Submitted to *Nature*
5. Cheng Shen#, **Zhibo Li**#, Yue Yu, Deliang Chen*. Offshore wind energy potential decreases with global warming. Submitted to *RSER*

2023

1. Shangfeng Chen, Wen Chen*, Bin Yu, Liang Wu, Lin Chen, **Zhibo Li**, Hasi Aru, Jingliang Huangfu. (2023) Impact of the winter Arctic sea ice anomaly on the following summer tropical cyclone genesis frequency over the western North Pacific. *Climate Dynamics*.
2. Shiwei Jiang, Xin Zhou*, Julian Sachs, **Zhibo Li**, Luyao Tu, Yiyi Lin, Xuanqiao Liu, Anze Chen, Yanan Shen. (2023) The mean state of the tropical Pacific Ocean differed between the Medieval Warm Period and the Industrial Era. *Communications Earth & Environment*. 4, 74. <https://doi.org/10.1038/s43247-023-00734-4>
3. Jing Han, Ji Nie*, Yongyun Hu*, William Boos, Yonggang Liu, Jun Yang, Shuai Yuan, Xiang Li, Jiaqi Guo, Jiawenjing Lan, Qifan Lin, Xiujuan Bao, Mengyu Wei, **Zhibo Li**, Kai Man, Zihan Yin. (2023) Continental drift shifts tropical

rainfall by altering radiation and ocean heat transport. *Science Advances*. 9(10). <https://doi.org/10.1126/sciadv.adf7209>

4. Xiujuan Bao, Yongyun Hu*, Christopher R. Scotese, Xiang Li, Jiaqi Guo, Jiawenjing Lan, Qifan Lin, Shuai Yuan, Mengyu Wei, **Zhibo Li**, Kai Man, Zihan Yin, Jing Han, Jian Zhang, Qiang Wei, Yonggang Liu, Jun Yang, Ji Nie. (2023) Quantifying climate conditions for the formation of coals and evaporites. *National Science Review*. nwad051. <https://doi.org/10.1093/nsr/nwad051>

2022

5. Cheng Shen, Jinlin Zha, **Zhibo Li**, Cesar Azorin-Molina, Kaiqiang Deng, Lorenzo Minola, Deliang Chen*. (2022) Evaluation of global terrestrial near-surface wind speed simulated by CMIP6 models and their future projections. *Annals of the New York Academy of Sciences*. 1518(1), 249-263. <https://doi.org/10.1111/nyas.14910>
6. Tianjiao Ma, Wen Chen*, Shangfeng Chen, Chaim I. Garfinkel, Shuoyi Ding, Lei Song, **Zhibo Li**, Yulian Tang, Jingliang Huangfu, Hainan Gong, Wei Zhao. (2022) Different ENSO teleconnections over East Asia in early and late winter: role of precipitation anomalies in the tropical Indian Ocean–far western Pacific. *Journal of Climate*, 35(24), 4319-4335. <https://doi.org/10.1175/JCLI-D-21-0805.1>
7. Shiyan Zhang, Yongyun Hu*, **Zhibo Li**. (2022) Recent changes and future projection of precipitation in Northwest China (in Chinese). *Advances in Climate Change Research*. <https://doi.org/10.12006/j.issn.1673-1719.2021.281>
8. Xiang Li, Yongyun Hu*, Jiaqi Guo, Jiawenjing Lan, Qifan Lin, Xiujuan Bao, Shuai Yuan, Mengyu Wei, **Zhibo Li**, Kai Man, Zihan Yin, Jing Han, Jian Zhang, Chenguang Zhu, Zhouqiao Zhao, Yonggang Liu, Jun Yang, Ji Nie. (2022) A high-resolution climate simulation dataset for the past 540 million years. *Scientific Data*, 9(1), 371. <https://doi.org/10.1038/s41597-022-01490-4>
9. Peng Hu, Wen Chen*, **Zhibo Li**, Shangfeng Chen, Lin Wang, Yuyun Liu. (2022) Close linkage of the South China Sea summer monsoon onset and extreme rainfall in May over Southeast Asia: role of the synoptic-scale systems. *Journal of Climate*, 35(13), 4347-4362. <https://doi.org/10.1175/JCLI-D-21-0740.1>
10. Shangfeng Chen, Wen Chen*, Bin Yu, **Zhibo Li**. (2022) Impact of internal climate variability on the relationship between spring northern tropical Atlantic SST anomalies and succedent winter ENSO: the role of the North Pacific Oscillation. *Journal of Climate*, 35(2), 537-559. <https://doi.org/10.1175/JCLI-D-21-0505.1>

2021

11. Jinlin Zha, Cheng Shen, **Zhibo Li**, Jian Wu, Deming Zhao*, Wenxuan Fan, Ming Sun, Cesar Azorin-Molina, Kaiqiang Deng. (2021) Projected changes in global terrestrial near-surface wind speed in 1.5-4.0 °C global warming levels. *Environmental Research Letters*, 16(11), 114016. <http://doi.org/10.1088/1748-9326/ac2fdd>
12. **Zhibo Li**, Ying Sun*, Tim Li, Wen Chen, Yihui Ding. (2021) Projections of South Asian summer monsoon under global warming from 1.5° to 5 °C. *Journal of Climate*, 34(19), 7913-7926. <https://doi.org/10.1175/JCLI-D-20-0547.1>

13. Cheng Shen, Jinlin Zha*, Deming Zhao, Jian Wu, Wenxuan Fan, Mengxi Yang, **Zhibo Li**. (2021) Estimating centennial-scale changes in global terrestrial near-surface wind speed based on CMIP6 GCMs. *Environmental Research Letters*, 16(8), 084039. <http://doi.org/10.1088/1748-9326/ac1378>
14. **Zhibo Li**, Wen Chen*, Shangfeng Chen, Ying Sun*, Danlei Qian. (2021) Uncertainty of central China summer precipitation and related natural internal variability under global warming of 1 to 3°C. *International Journal of Climatology*, 41(15), 6640-6653. <http://doi.org/10.1002/joc.7217>

2019

15. **Zhibo Li**, Ying Sun*, Tim Li, Yihui Ding, Ting Hu. (2019) Future changes in East Asian summer monsoon circulation and precipitation under 1.5 to 5°C of warming. *Earth's Future*, 7(12), 1391-1406. <http://doi.org/10.1029/2019EF001276>
16. **Zhibo Li**, Jia Liu, Tim Li*, Ying Sun. (2019) Relative roles of dynamic and thermodynamic processes in causing positive and negative global mean SST trends during the past 100 years. *Dynamics of Atmospheres and Oceans*, 86(c), 18-32. <http://doi.org/10.1016/j.dynatmoce.2019.02.002>

PROJECTS

1. 2020.05-2024.12: NSFC Project: “Continental Evolution and Monsoon Changes” (41888101). Participant.
2. 2017.12-2021.08: National Key R&D: “Response and scenario prediction of East Asian climate system under global warming 1.5°C” (2017YFA0603802). Participant.

PEER REVIEWER

Environmental Research Letters (2)

SCIENTIFIC PRESENTATION

1. 2023.04 Vienna, Austria. EGU (Poster)
2. 2023.02 Beijing, China. Center for Monsoon System Research, Institute of Atmospheric Physics, Chinese Academy of Sciences (Oral)
3. 2021.11 Beijing, China. The 17th Graduate Academic Salon of the Institute of Atmospheric Physics, Chinese Academy of Sciences (**Invited**, Oral)
4. 2021.07 Shanghai, China. The 6th Conference on Earth System Science (Poster)
5. 2021.04 Vienna, Austria. EGU (Online, Oral)
6. 2020.07 Nanjing, China. 2020 Annual Project Seminar of “Response and scenario prediction of East Asian climate system under global warming 1.5°C” (**Invited**, Oral)
7. 2020.06 Beijing, China. The 3th PKU Undergraduate Online Workshop of Atmospheric Science (**Invited**, Oral)
8. 2019.05 Beijing, China. The 4th CAMS-NUIST Joint Center for Season-to-Seasonal Research (Poster)
9. 2018.12 Nanjing, China. The 4th NUIST-POSTECH-CITYU Joint Workshop on Climate Dynamics & Future Changes (Poster)
10. 2018.03 Nanjing, China. NJU-NUIST Joint Workshop on Climate Dynamics

(Poster)

11. 2017.12 Hong Kong, China. The 3rd NUIST-POSTECH-CITYU Joint Workshop on Climate System Interaction & Future Changes (Oral)

VISIT/SEMINAR

1. 2019.10 Beijing, China, 1st International Workshop on Global Monsoons Intercomparison Project
2. 2017.08 Nanjing, China, Advanced Climate Dynamics Lecture Series 2017
3. 2016.06 Nanjing, China, Advanced Climate Dynamics Lecture Series 2016