

# Lingwei Li

Department of Geography

Ohio State University

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## **EDUCATION**

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- 2019-Present      **Doctor of Philosophy (post-candidacy) in Atmospheric Science**  
Department of Geography, The Ohio State University  
Advisor: Dr. Zhengyu Liu
- 2019                **Master of Science in Atmospheric Science**  
Department of Geography, The Ohio State University  
Advisor: Dr. Zhengyu Liu
- 2016                **Bachelor of Science in Environmental Science**  
College of Agricultural & Life Sciences, The University of Wisconsin-Madison
- 2016                **Environmental Studies Certificate**  
Nelson Institute for Environmental Studies, The University of Wisconsin-Madison

## **RESEARCH INTEREST**

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- Southern Ocean circulations during the last deglaciation
- Applications of isotopes and geotracers on paleoclimatology

## **PEER-REVIEWED PUBLICATION**

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### ***Published:***

Li, L., Liu, Z., Lynch-Stieglitz, J., He, C., Gu, S., Zhang, J., & Otto-Bliesner, B. (2021). Testing Methods for Reconstructing Glacial Antarctic Circumpolar Current Transport in an Isotope-enabled Climate Model. *Paleoceanography and Paleoclimatology*, 36(10).

<https://doi.org/10.1029/2020PA004183>

Li, L., Liu, Z., Zhu, Z., He, C., & Otto-Bliesner B. (2021). Shallowing Glacial Antarctic Intermediate Water by Changes in Sea Ice and Hydrological Cycle. *Geophysical Research Letters*, 48(16).

<https://doi.org/10.1029/2021GL09431>

### ***Submitted:***

Thirumalai, K., Clemens, S. C., Rosenthal, Y., Conde, S., Bu, K., Desprat, S., Erb, M., Cheng, J., Li, L., Liu, Z., Zhou, L., Giosan, L., Singh, A., & Mishra, V. (2022). Extreme Indian Monsoon states lead to marine productivity collapses. *Science*, Under Review.

**Thesis:**

Li, L. (2019). Understanding Antarctic Circumpolar Current Transport at the LGM using an Isotope-enabled Ocean Model. M.S. Thesis, The Ohio State University.  
[http://rave.ohiolink.edu/etdc/view?acc\\_num=osu1555594394056462](http://rave.ohiolink.edu/etdc/view?acc_num=osu1555594394056462)

**PROFESSIONAL EXPERIENCE**

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**Ohio State University, Department of Geography**

*Teaching Assistant*

2021-present

- Facilitating students to carry out lab experiments safely and thoroughly
- Providing brief additional instruction to supplement the lab experiments
- Grading lab assignments

**Ohio State University, Department of Geography**

*Research Assistant*

2017-2021

- Analyzed Ensemble Optimal Interpolation data assimilation on Lorenz96 model
- Analyzed responses of simulated Antarctic Circumpolar Current and oxygen isotopes at the Last Glacial Maximum in CESM iPOP2 models and prepared related Master thesis
- Research on understanding Southern Ocean circulations and deglaciation climate change using paleo geotracers in isotope-enabled climate models

**Institute of Soil and Water Conservation, Chinese Academy of Sciences, Xi'an, China**

*Research Assistant*

2016-2016

- Assisted in the vital research to restore China's heavily degraded Loess Plateau
- Investigated soil nutrients and microbial functional diversity in shrub-land and forest on Loess Plateau
- Conducted soil property measurements and vegetation species searching

**Institute of Soil Environmental Protection Administration of China, Yulin, China**

*Student Intern*

2014 & 2015

- Conducted groundwater analysis and data collection
- Investigated hazardous water disposal management and relevant policies

**TEACHING AND TRAINING EXPERIENCE**

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- Guest Lecturer. Dynamic Meteorology I (ATMOSSC5951), The Ohio State University (Fall 2019)
- Graduate Teaching Assistant (Lab Instructor). Extreme Weather and Climate (G1900), The Ohio State University (Fall 2021, Spring 2022, and Fall 2022)
- 2022 ASC Faculty Hiring Workshop (Searching for Inclusive Excellence), The Ohio State University
- 2019 GTA Toolkit Workshops, The Ohio State University
- 2017 CESM Tutoring Workshop, NCAR Mesa Lab

**CONFERENCE PRESENTATIONS**

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**2021 AGU Fall Meeting**

Virtual Poster Presentation: Shallowing Glacial Antarctic Intermediate Water by Changes in Sea Ice and Hydrological Cycle

**2021 GeoWeek Grad Student Research Forum**

Oral Presentation: Testing Methods for Reconstructing Glacial Antarctic Circumpolar Current Transport in an Isotope-enabled Climate Model (iCESM)

**2021 2<sup>nd</sup> Edition of World Congress on Geology and Earth Science**

Virtual Oral Presentation: Shallowing Glacial Antarctic Intermediate Water by Changes in Sea Ice and Hydrological Cycle

**2021 26<sup>th</sup> Annual CESM Workshop**

Virtual Oral Presentation: Testing Methods for Reconstructing Glacial Antarctic Circumpolar Current Transport in an Isotope-enabled Climate Model

**2019 AGU Fall Meeting**

Poster Presentation: Simulating characteristics of oxygen isotope in the Antarctic Circumpolar Current at the Last Glacial Maximum

**PUBLIC ENGAGEMENT**

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**Community Outreach**

- Interviewed via email by Jordan Lindsey from Olentangy Liberty High School with regard to climate change and global warming 2019
- Interviewed via email by Mikayla Edeen from Nordonia High School with regard to climate change and global warming 2021

**Department Service**

- Volunteered for the Department GeoWeek 2019
- Student representative on faculty search committee 2022

**AWARDS & HONORS**

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Lakshmanan Chatterjee Scholarship for Outstanding PhD Students (\$3,000) 2020

**MEMBERSHIP**

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American Geophysical Union (AGU)

**SKILLS & INTERESTS**

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**Programming**

- Proficient in Python and NCL programming and familiar with R, MATLAB, and Fortran languages

**Climate Modeling**

- Experience running and altering forcing routines in Community Earth System Model (CESM)
- Experience analyzing various versions of model outputs using NCAR analysis environment