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# Zhiying Li

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## EDUCATION

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|---|---|
| 2021 | **Ph.D. in Geography**<br>Department of Geography, The Ohio State University, Columbus, OH, USA<br>Advisor: Dr. Steven M. Quiring |
| 2017 | **M.S. in Physical Geography**<br>Institute of Geographic Sciences and Natural Resources Research (IGSNRR), University of Chinese Academy of Sciences (UCAS), Beijing, China |
| 2014 | **B.S. in Agriculture in Soil and Water Conservation**<br>College of Natural Resources and Environment, Northwest A&F University, Yangling, Shaanxi, China |
| Jul-Aug, 2013 | **Visiting Student**<br>Department of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE, USA |

## ACADEMIC APPOINTMENTS

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| Sept 2021-present | **Postdoctoral Research Associate**<br>Department of Geography, Dartmouth College, Hanover, NH, USA<br>Advisor: Dr. Justin S. Mankin |

## RESEARCH INTERESTS

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| Hydro-climatology | Drought monitoring |
| Soil conservation; soil moisture | Global Climate Change |

## PEER-REVIEWED PUBLICATIONS

7. Jing Wu, Qiu Xia, **Zhiying Li***. 2022. Green innovation and enterprise green total factor productivity at a micro level: A perspective of technical distance. *Journal of Cleaner Production*, 131070. doi: 10.1016/j.jclepro.2022.131070

6. **Zhiying Li***, Steven M. Quiring. 2021. Investigating spatial heterogeneity of the controls of surface water balance in the contiguous United States by considering anthropogenic factors. *Journal of Hydrology* 601, 126621. doi: 10.1016/j.jhydrol.2021.126621

5. **Zhiying Li***, Steven M. Quiring. 2021. Identifying the Dominant Drivers of Hydrological Change in the Contiguous United States. *Water Resources Research* 57(5), e2021WR029738. doi: 10.1029/2021WR029738

4. Ning Zhang, **Zhiying Li***, Xun Zou, Steven M. Quiring. 2019. Comparison of three short-term load forecast models in Southern California. *Energy* 189*,* 116358. doi: 10.1016/j.energy.2019.116358

3. **Zhiying Li***, Xiao Li, Yue Wang, Steven M. Quiring. 2019. Impact of climate change on

precipitation patterns in Houston, Texas, USA. *Anthropocene* 25, 100193. doi: 10.1016/j.ancene.2019.100193

2. **Zhiying Li**, Haiyan Fang*. 2017. Modelling the impact of climate change on watershed discharge and sediment yield in the black soil region, northeastern China. *Geomorphology* 293(Part A), 255-271. doi: 10.1016/j.geomorph.2017.06.005

1. **Zhiying Li**, Haiyan Fang*. 2016. Impacts of climate change on water erosion: a review. *Earth-Science Reviews* 163, 94-117. doi: 10.1016/j.earscirev.2016.10.004

(*corresponding author)

## RESEARCH GRANTS

2020 Co-Investigator: National Science Foundation Doctoral Dissertation Research Improvement, Relative Importance of Drivers of River Discharge and Prediction of Flow Regimes across the United States (06/15/2020-11/30/2021, $17,023); with Steven Quiring (PI)

## TEACHING EXPERIENCE

Guest Lecturer. Boundary Layer Climate (G5921), The Ohio State University (Feb 2020)
Graduate Teaching Assistant (Lab Instructor). Extreme Weather and Climate (G1900), The Ohio State University (Spring 2020, Fall 2019)
Graduate Teaching Assistant. Climatology (G5900), The Ohio State University (Spring 2019)
Graduate Teaching Assistant. Global Climate Change (G3900), The Ohio State University (Fall 2018)

## AWARDS AND HONORS

2021 The Story Exchange "Our Women in Science Incentive Prize" ($5,000)
2021 The E. Willard & Ruby S. Miller Fellowship, Department of Geography at The Ohio State University ($4,000)
2021 The 1st place poster presentation award in Mathematical and Physical Sciences at the Edward F. Hayes Graduate Research Forum ($200)
2020 The 2nd place student poster presentation award at the 2020 Annual Water Management Association of Ohio Conference ($100)
2020 The 1st place PhD student paper presentation award at the 2020 East Lakes Division of the American Association of Geographers ($125)
2020 American Association of Geographers (AAG) Annual Meeting Student Grant
2020 Best Oral Presentation at the 4th annual Midwest Student Conference on Atmospheric Research
2019 Graduate School Presidential Fellowship, The Ohio State University ($32,100)
2019 American Meteorological Society Annual Meeting Matthew J. Parker Travel Grant (~$1,400 package)
2019 Rick Toracinta Graduate Scholarship, The Ohio State University ($2,000)
2017 Graduate School University Fellowship, The Ohio State University ($26,316)
2017 Taaffe Research Award, The Ohio State University ($2,000)
2017 Outstanding Graduate, IGSNRR, University of Chinese Academy of Sciences (Top

1%)

2017 "Institute Director" Scholarship, IGSNRR, University of Chinese Academy of Sciences, China (Top 3%)

2016 1st Class (Top) Academic Scholarship, IGSNRR, University of Chinese Academy of Sciences

2014 Outstanding Graduate, Northwest A&F University (Top 1%)

## PROFESSIONAL EXPERIENCE

Feb-Aug, 2021 **Graduate Research Assistant,** Dept. of Geography, The Ohio State University
Project: "Climate Resilience Project" funded by the American Honda Motor Company
- Modeling flooding risk to facilities under climate change scenarios

2018-2020 **Graduate Teaching Assistant,** Dept. of Geography, The Ohio State University

Jun-Aug, 2019 **Graduate Research Assistant,** Dept. of Geography, The Ohio State University
Project: "Deployment of Storm Impact Prediction Model" funded by the Southern Company
- Pre-processed data for the spatially generalized hurricane outage prediction model (SGHOPM)
- Ran storm wind models in R and analyzed tree trimming factors

## SELECTED CONFERENCE PRESENTATIONS

2022 Virtual Oral Presentation on "Accounting for the climatology of drought characteristics in the contiguous United States" in the AAG 2022 Annual Meeting, February 25-March 1

2021 Virtual Poster Presentation on "Uncertainty in the Gridded Daily Temperature Datasets for Estimation of Potential Evapotranspiration Values and Trends in the Continental United States" in the Edward Hayes Graduate Research Forum, April 9

Virtual Oral Presentation on "Uncertainty in the Gridded Daily Temperature Datasets for Estimation of Potential Evapotranspiration Values and Trends in the Continental United States" in the AAG 2021 Annual Meeting, April 7-11

Virtual Poster Presentation on "Climatic, physiographic, and anthropogenic factors controlling spatial and temporal variability of water balance within the Budyko framework" in the AMS 2021 Annual Meeting, Jan 10-15

2020 Virtual Poster Presentation on "Climatic, physiographic, and anthropogenic factors controlling spatial and temporal variability of water balance within the Budyko framework" in the AGU 2020 Fall Meeting, December 1-17

Virtual Poster Presentation on "Identifying the Dominant Drivers of Hydrological Change in the Contiguous United States" in the 2020 Annual Water Resources

Conference, November 9-12

Virtual Poster Presentation on "Identifying the Dominant Drivers of Hydrological Change in the Contiguous United States" in the 49th Annual Water Management Association of Ohio Conference, November 2-5

Virtual Oral Presentation on "Climatic, physiographic, and anthropogenic factors controlling spatial and temporal variability of water balance within the Budyko framework" in the 14th Graduate Climate Conferences, October 30-November 1

Virtual Oral Presentation on "Developing Impacts-Based Drought Thresholds in Ohio" in the 2020 East Lakes Division of the American Association of Geographers, October 29-30

Virtual Poster Presentation on "Developing Impacts-Based Drought Thresholds in Ohio" in the 2020 Byrd Center Symposium on Climate Change, October 9

Virtual Oral Presentation on "Developing Impacts-Based Drought Thresholds in Ohio" in the 4th annual Midwest Student Conference on Atmospheric Research, September 26-27

Virtual Poster Presentation on "Developing Impacts-Based Drought Thresholds in Ohio" in the 2020 National Soil Moisture Workshop, August 12-13

2019 Poster Presentation on "Comparison of three short-term load forecast models in Southern California" in the 2019 Translational Data Analytic Institute Fall Forum, Columbus, OH, USA, November 7

Poster Presentation on "Spatio-temporal hydroclimatic variability in Ohio, USA" in the inaugural Byrd Center Symposium on Climate Change, Columbus, OH, USA, March 22

2018 Poster Presentation on "Spatio-temporal hydroclimatic variability in Ohio, USA" in the AGU 2018 Fall Meeting, Washington D.C., USA, December 10-14

## MANUSCRIPT REVIEWER

- Catena
- Journal of Hydrology: Regional Studies (3 times)
- Physical Geography (3 times)
- Utilities Policy (5 times)
- PeerJ (3 times)
- Environmental Engineering and Management Journal

## TEXTBOOK REVIEWER

Elsevier

## EDITORSHIP

Assistant Editor, Anthropocene Science, Jan. 2022-present

## PROFESSIONAL SERVICE

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| 2022 | Judge, Climate Specialty Group, Student Paper Competition, Annual Meeting of the Association of American Geographers |

## DEPARTMENTAL SERVICE

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| 2020-2021 | Treasurer, OSU Geography Graduate Organization |
| 2020 | Invited interviewee, Department of Teaching and Learning, The Ohio State University |
| 2019 | Volunteer for GeoWeek, Department of Geography, The Ohio State University |
| 2019 | Judge for undergraduate art pieces as an extra credit activity for G1900, Department of Geography, The Ohio State University |
| 2018 | Poster Presentation in the Graduate Research Forum as part of GeoWeek, Department of Geography, The Ohio State University |

## MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Geophysical Union (AGU)
American Association of Geographers (AAG)
AAG Climate Specialty Group
AAG Graduate Student Affinity Group
American Meteorological Society (AMS)
Water Management Association of Ohio (WMAO)

## TECHNICAL SKILLS

**Programming:** MATLAB, R, Python, JavaScript
**GIS & Geospatial software:** Google Earth Engine, ArcGIS, GeoDa, ENVI, IDRISI
**Hydrological Model:** SWAT, TETIS, HEC-HMS
**Statistical software**: JMP, SPSS