

# Beichen Zhang

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## EDUCATION

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|-------------------|---|
| 08/2019 - Present | University of Nebraska-Lincoln<br>Doctor of Philosophy, School of Natural Resources<br>Major: Natural Resource Sciences/ Climate Assessment and Impacts   |
| 08/2017 - 08/2019 | University of Nebraska-Lincoln<br>Master of Science, School of Natural Resources<br>Major: Natural Resource Sciences/ Climate Assessment and Impacts<br>GPA: 3.97/4<br>Thesis: <i>Investigation of GRACE-derived Information on Forest Drought Stress Across the Contiguous U.S</i><br>Advisor: Dr. Tsegaye Tadesse |
| 09/2013 - 07/2017 | Northwest A&F University<br>B.A., College of Natural Resources and Environment<br>Major: Geographic Information Science<br>GPA: 83.13/100<br>Thesis: <i>Impact Crater Extraction on Mars Digital Elevation Model</i><br>Advisor: Dr. Cheng Wang   |

## RESEARCH EXPERIENCE

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| 09/2019 - Present | Graduate Research Assistant<br>School of Natural Resources, University of Nebraska-Lincoln <ul style="list-style-type: none"><li>Participated in an interdisciplinary project (computer science, sociology, and meteorology) aiming to anticipate social unrest using integrated data mining approaches.</li></ul>  |
| 05/2018 - 08/2019 | Graduate Research Assistant<br>National Drought Mitigation Center, University of Nebraska-Lincoln <ul style="list-style-type: none"><li>Assisted Professor Tsegaye Tadesse with processing spatial data sets and building regression models in several projects including Vegetation Outlook (VegOut), Quick Drought Response Index (QuickDRI), Combined Drought Index (CDI) of Nepal and Pakistan.</li></ul> |
| 08/2016 - 05/2017 | Internship<br>College of Natural Resources and Environment, Northwest A&F University <ul style="list-style-type: none"><li>Surveyed the sewer network of Institute of Soil and Water Conservation using GPS (Real-Time Kinematic) and Electronic Total Station.</li><li>Detected land cover and land use changes of several cities in Shaanxi province.</li></ul>   |

## TEACHING EXPERIENCE

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08/2019 - Present	Graduate Teaching Assistant
08/2017 - 05/2018	<i>Introduction to Geospatial Information Sciences</i> School of Natural Resources, University of Nebraska-Lincoln <ul style="list-style-type: none"><li>• Prepared lab materials and assignments focusing on applications of geospatial information technology: GIS, RS, GPS, and spatial data analysis. Taught two lab sections each semester for 20-30 junior- or senior-level undergraduates.</li><li>• Graded class quizzes and lab assignments and helped students understand fundamental concepts.</li></ul>

## HONORS AND AWARDS

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2018	Travel Funds School of Natural Resources and Graduate Committee funds, \$750.
2014	First Class Professional Scholarship Top 10% students of Dept. of Natural Resources and Environment.

## CONFERENCE PRESENTATIONS

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“Evaluation of GRACE Data Assimilation Based on The Tree Ring Growth Index Across the Contiguous US” National Soil Moisture Workshop. Kansas State University, Manhattan, KS, May 2019.

“A Comparison of Drought Indicators to Crop Yields for Nebraska from 1981 to 2012” Association of American Geographers Annual Meeting. New Orleans, LA, April 2018.

## PROFESSIONAL MEMBERSHIP

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2020 - Present	American Geophysical Union (AGU)
2018 - 2019	American Association of Geographers (AAG)

## TECHNICAL SKILLS

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- Programming languages: Python, R, C, C++, SQL, and HTML&CSS.
- Professional Software: ArcGIS, QGIS, ENVI, ERDAS.
- Others: Operating GPS (RTK) and surveying instruments, Microsoft Office Software.

## LANGUAGE

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Chinese: Fluent  
English: Proficient