

Beichen Zhang

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EDUCATION

08/2017 - Present

UNIVERSITY OF NEBRASKA-LINCOLN

Master of Science, School of Natural Resources, Anticipated August 2019

Major: Natural Resource Sciences/ Climate Assessment and Impacts

GPA: 3.95/4

Coursework includes Remote Sensing, Micro-Climature, Regional Climatology, Crop Growth and Yield Modeling, Climate and Society, Statistics.

09/2013 - 07/2017

NORTHWEST A&F UNIVERSITY

B.A., Dept. of Natural Resources and Environment

Major: Geographic Information Science

GPA: 83.13/100 (3.11/4), IELTS: 6.5, GRE: 313

Coursework includes GIS Software and its Application, Remote Sensing Principle and Method, Principle and Application of GPS, C++, C and Database Management (SQL)

Dissertation title: Impact Crater Extraction on Mars Digital Elevation Model

Advisor: Dr. Cheng Wang

RESEARCH EXPERIENCE

05/2018 - Present

Graduate Research Assistant

National Drought Mitigation Center (NDMC), University of Nebraska-Lincoln

- Assistant to Professor Tsegaye Tadesse, processing raster data sets and developing a spatial database for a forest drought monitoring model.
- Contribute to multiple projects related to model or satellite data processing, such as NLDAS, GLDAS, SPI, VPD, ESI, GRACE, MODIS, LANDSAT.
- Collaborate and coordinate with faculty, staff scientists, and fellow graduate students.

03/2017 - 05/2017

Undergraduate Research Assistant

College of Water Resources and Architectural Engineering, Northwest A&F University

- Surveyed the sewer network of Institute of Soil and Water Conservation, CAS&MWR using GPS (Real-Time Kinematic) and Electronic Total Station.
- Developed a 2-D GIS model for the sewer network through ArcGIS.

TEACHING EXPERIENCE

- 08/2017 - 05/2018 Teaching Assistant, Introduction to Geospatial Information Sciences
School of Natural Resources, University of Nebraska-Lincoln
- Prepared lab materials and assignments focusing on applications of geospatial information technology, such as RS, GPS, GIS and spatial data analysis. Taught two lab sections each semester for 20-30 freshman junior or senior level undergraduates.
 - Graded class and lab assignments and helped students understand materials and keep on the track.

HONORS AND AWARDS

- 2018 School of Natural Resources,
Natural Resource Science Doctoral Graduate Student Conference Travel Grant, \$ 200
- 2014 First Class Professional Scholarship
- Top 10% students of Dept. of Natural Resources and Environment.

CONFERENCE PRESENTATIONS

“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.

TECHNICAL SKILLS

- Programming languages and mathematical packages: Python, R, C, C++, SQL, CSS and HTML.
- Professional Software: ArcGIS, QGIS, ENVI, ERDAS and PostgreSQL(PostGIS).
- Others: Operating GPS (RTK), Electronic Total Station and other surveying instruments.
Linux (Ubuntu), MacOS and Windows OS.

LAUGUAGE

Chinese: Fluent
English: Proficient