

Sarigai (Rose) Sarigai

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EDUCATION

University of New Mexico
PhD in Geographic Information Science

Albuquerque, NM
August 2020 - present

Eastern Michigan University
Master of Science in Geographic Information Science

Ypsilanti, MI
December 2019

Overall GPA 3.88

Heilongjiang University
Bachelor of Engineering in Hydrology and Hydropower Engineering

Harbin, China
July 2016

RELEVANT EXPERIENCE

University of New Mexico
Research Assistant

Albuquerque, NM
Fall 2020-present

University of New Mexico/GeoAIR Lab
Research Assistant

Albuquerque, NM
Fall 2020-present

- Support research project of using geospatial artificial intelligence for image analysis
- Literature review
- Gather data related to assigned project
- Python and JavaScript programming
- Use both qualitative and quantitative methods to analyze data
- Use (advanced) machine learning and data mining technologies to derive insights from gathered data and information

American Association of Geographers, 2019 Annual Meeting
Presenter

Washington, DC
04/05/2019

- Presented “Analysis on Urban Black and Odorous Water” as part of session titled “Geographic Studies of Water Quality and Management”

Eastern Michigan University/IGRE

Ypsilanti, MI

Intern for NSF Grace (GIS Resources and Applications for Career Education) Project May 2018 - August 2018

- Trained high school students in ArcGIS Online & ArcGIS Pro
- Overseen high school students by email in GIS training
- Liaison between EMU’s IGRE center & high school site contact
- Maintained and developed Grace project official website
- Granted license to high school students and Geometers via Grace database

Eastern Michigan University, Institute of Geospatial Research and Education
Research Assistant

Ypsilanti, MI
Fall 2017-present

- Analyze socioeconomic data and environmental data using R, SPSS and Microsoft Excel
- Mapping using ArcMap, ArcGIS Online and ArcGIS Pro
- Image processing using ArcGIS

Eastern Michigan University, Department of geography and Geology
Graduate Assistant/ Teaching Assistant

Ypsilanti, MI
Fall 2017 – Winter 2018

- Helped students with ArcGIS, QGIS and other software used in class
- Assisted student's coursework and projects in class and weekly office hours
- Graded the students' weekly homework

Inner Mongolia Grassland Survey and Planning Institute
Field Work Assistant

Xilinhot, China
Summer, 2017

- Assisted in plant investigation by quadrat method
- Participated in UAV spectrometer experiment (Application of hyperspectral data in grassland investigation and ecological monitoring)

Field Work Assistant

Summer, 2016

- Assisted in annual grassland investigation by quadrat method

PUBLICATION

- Sarigai, Ji Yang, Alicia Zhou, Liusheng Han, Yong Li, Yichun Xie, Monitoring urban black-odorous water by using hyperspectral data and machine learning, Environmental Pollution, Volume 269, 2021, 116166, ISSN 0269-7491, <https://doi.org/10.1016/j.envpol.2020.116166>.

SKILLS

Language

Mongolian (Native, proficient in writing in both traditional Mongolian script and Cyrillic Mongolian Alphabet)
 Chinese (Native)

English (Fluent in speaking; proficient in writing)

Korean (Elementary proficiency)

Technical Skills

- Proficient in ArcPro, ArcCatalog, ArcMap, ArcGIS Online, Story Mapping
- Basic skill in ERDAS Imagine
- Coding skill in R, SPSS, Python, JavaScript, HTML/CSS
- Proficient in AutoCAD
- Skilled in Microsoft Excel, Microsoft Word, Microsoft Power Point

TRAINING

Michigan Sustainability Cases, Galaxy Sustainability Learning Exchange

2018, Ann Arbor, Michigan

- Trained on various kind of skills need for a case study
- Worked with environmentally minded people from different background on sustainability case studies
- Worked on the case study of "The degradation of Hulun Lake, Inner Mongolia, China"

Heilongjiang University

Senior's Intern program

2016, Hubei, China

- Trained at the center of the South-North Water Transfer Project located in Handan, China
- Trained at the developing center of Gezhou Dam in Hubei, China
- Trained at The Three Gorges Dam in Hubei, China

Engineering Geology Practice

2014, Beidaihe, China

- Strengthened academic knowledge as well as to integrated faultlessly between theory and practice by collecting in situ data and field internship.

LEADERSHIP ACTIVITIES

2019 ArcGIS Online Competition for US HS+MS Students

Co-leader

Ypsilanti, Michigan

January 2019 - June 2019

- Communicated with geo-mentors and teachers
- Evaluated and judged students' work

Mongolian Association of Heilongjiang University

Vice President

2014-2015, Harbin, China

- Designed and organized Mongolian cultural events
- Planned and organized annual meetings and annual parties