

Xinru Guo

Gender: Male Date of Birth: June 17, 1998
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Education

Arizona State University

Tempe, AZ

Bachelor of Science in Geography

Aug. 2015 – Dec. 2018

School of Geographical Sciences and Urban Planning

GPA: 3.72 /4.0

Scholarship: 2015 New American University Scholar - University Award

Coursework: *Cultural Geography; Physical Geography; Geological Sciences; Urban and Environmental Planning; Geographic Info Technologies*

University of Wisconsin-Madison

Madison, WI

Master of Science in Cartography/GIS

Sep. 2019 – Aug. 2020

Department of Geography

Coursework: *Introduction to Cartography; An Introduction to Geographic Information Systems; Introduction to Geocomputing; Advanced Quantitative Methods; Advanced Geocomputing and Geospatial Big Data Analytics; Geospatial Database Design and Development; GIS Applications; Practicum in GIS Development*

Research Projects

● On the Location of the New Fire Tower in San Diego

Mar.2018 - May.2018

Instructor: Prof. Ryan Frazier; GIS 311: Geographic Information Science II

Position: Team Leader

- Collected official and first-hand data about the distribution of rivers, lakes, roads and vegetations, and about the altitude and the slop of each region of the city;
- Established data map via ArcMap to analyze, visualize and elevate the location of the existing fire towers and related geographical factors;
- Composed research report and presented the concluding statement as the representative.

● On the Percentage of Coal Consumption in the Total Consumption of Major Energy in China's Provinces From 2007 to 2016

Oct.2018 - Dec.2018

Instructor: Prof. Barbara Trapido-Lurie; GIS 341: Introduction to Cartography and Georepresentation

- Collected energy consumption data form and used ArcMap to make data layers for comparative research;
- Responsible for assignment distribution, time scheduling and final presentation.

● Research on the Countermeasures against the Heat Wave at Tempe, Arizona

Feb.2018 - May.2018

Instructor: Prof. David Hondula; GCU 496: Geographic Research Methods

- Designed questionnaire with Google Form about the citizen's experience about extreme weather and their reactions and gathered demographic information like educational level, age, gender, and nationality, etc.
- Made analysis via ArcMap and conducted comparative studies on people's reactions against the extreme weather so as to figure out the frequency variation of different strategies.

● **Study/Research on Google Earth** Aug.2016 - Dec.2016

Instructor: Prof. Deborah Ayodele; GIS 205: Geographic Information Technologies

- Mastered modern geographic information technologies and the primary tools that geographers use to study the earth and its inhabitants, which include cartography, global positioning systems (GPS), remote sensing, and geographic information systems (GIS).

● **Study on Statistical Methods for Geographers** Feb.2017 - Apr.2017

Instructor: Prof. Stewart Fotheringham; GIS 470: Statistics for Geographers

- Interpreted descriptive and inferential statistical data to propose a quantitative hypothesis so as to analyze the 2016 Presidential Election.

● **Airbnb Guest Comment and Surrounding Analysis** Mar. 2020 - May. 2020

Instructor: Prof. Song Gao; GEOG 573: Advanced Geocomputing and Geospatial Big Data Analytics

- Analyzed guest comments, classified each comment into the sentiment that dominated(positive, negative, neutral) and extracted their major concerns in each type of comments.
- Selected three type of spatial context, security, shopping and accessibility to healthy food, as evaluation dimensions.

● **The Relationship Between the Distribution of Mammals in California and the Physical Geographic Environment** Feb. 2020 - May. 2020

Instructor: Prof. Qunying Huang; GEOG 574: Geospatial Database Design and Development

- This project build a database of mammal ranges and physical geographic environment in California to support the analysis of the impact of environment on mammal distribution.
- The database contains all of the mammal ranges data and environmental data of California, as well as the clear answers to all the research questions, including the generation of essential maps.
- The database have potential to support other analyses. Results eventually lead to a summary of mammal distribution pattern in California.

● **Identification of Priority Areas for Wildfire Suppression in California**

Jan. 2020 - May. 2020

Instructor: Prof. A-Xing Zhu; GEOG 578: GIS Applications

- Create a new priority model that takes the impact of wildfires on biologically diverse areas into account in addition to the protection of human lives and property.
- Seek to define priority areas where the existence of the human population is high, historical fire susceptibility is high, and there is a high concentration of mammal species.
- Combined with multifarious data information about human population, historical fires and mammal species, providing three maps that focus on the perspective of those three aspects to show results and support the model.

Extracurricular Activities

- **Summer Intern, Shandong Yufeng Agricultural Technology Co., Ltd.** 2013 - 2016
 - Documented and registered product information, supply and marketing channels and clients' information;
 - Made analysis on the company's annual profits according to financial statements.
- **Community Volunteer, Students Voluntary Association** 2015 - 2017
 - Made routine visits to local Charity Organization, helping out in voluntary activities like charity bazaar, door-to-door services, etc.

Honors & Awards

- **Entitled the Dean's List for six semesters** 2015 - 2018
- **Awarded the New American University Scholar - University Award for seven semesters** 2015 - 2018