**Miaojing (Mina) Wei**

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**EDUCATION**

**Clark University**, Worcester, MASep 2019 - Jun 2023

Major: Geography; GPA: 3.39; GRE: 326 (V156 / Q170 / W4.0)

* Second honors Dean’s List Student 2020 Fall
* Second honors Dean’s List Student 2021 Spring
* Alpha Sigma Chapter, The International Geographic Honor Society

**ACADEMIC PROJECT**

**Spatial Relationship between Environmental Justice and TierⅡFacilities in Massachusetts**

*Independent Researcher; Accepted by Francis Academic Press (FAP)* Jun 2022

* Explored the aggregation of environmental justice populations through the standardized SVI indicator (Social Vulnerability Index), and vulnerable populations have similar areas of aggregation through the aggregation analysis of the cluster map of SVI.
* Used spatial analysis to examine the spatial geographic location of secondary facilities and environmental justice community areas
* Found significant similarities and overlaps between the two regions related to gentrification policies
* Accepted by Francis Academic Press (FAP) for publication (Paper ID: FAP-24380)

**The Three Gorges Dam Research Proposal**

*Independent Researcher* Jun 2021

* Researched how the Three Gorges Dam affects the ecological habitat of native species
* Focused on questions like “how much habitat has been destroyed in the area”, “which species live in the destroyed habitat”, “what kind of competition currently exists between species due to the reduction in habitat area”, and “how will all these variables interact with each other”; Reviewed relevant literature
* Established research frame including data collection, analytical methods, and ethical consideration

**Evaluation of the Impact of Various Factors on Forest Loss in Amapa, Para, and Mato Grasso between 2000 and 2020**

*Team Leader (4 members)* Dec 2020

* Reviewed research areas based on a remarkable change in forest areas within our research region from 2010 to 2020
* Applied Terrsat software to analyze factors that impact forest loss in Brazil; Established a data model to simulate different scenarios
* Focused on three questions: “Do more drivers produce more accurate simulations?” “Which drivers produce the most accurate simulations?” “What is the effect of stratification on the simulations?”

**The Calakmul Biosphere Reserve Research**

*Independent Researcher* Dec 2019

* Assisted the local council to produce a map of a small subset of the region detailing all suitable areas for wildlife conservation (habitat management); Used and processed these resources by TerrSet
* Aimed to support the local council of Mexico in wildlife conservation by creating a map illustrating all suitable wildlife habitats

**WORK EXPERIENCE**

**Central Massachusetts Regional Planning Commission | MA, US**

*Planning Technician*  Jun 2022 – Oct 2022

* Assist in Regional Traffic Count program; Install automatic traffic counters on various roadways in Central Mass; Completed 200 counts
* Recorded Turning movement counts at various intersections in Central Mass; Completed advance setup of recording cameras at intersections; Collected the data and conducted analysis work
* Marked on the map of the corresponding road plans using Arcmap based on the latest traffic plan published on the MassDOT website

**Architectural Design & Research Institute of South China University of Technology | Guangzhou, CH**

*Research Assistant*  Jun - Jul 2021

* Assisted in collecting information on bid projects and documenting detailed requirements for a reference
* Read project materials of Haixinsha Park (built for the Guangzhou Asian Games in 2010) to learn how to present a design proposal
* Achieved several comparative reports for biding work; Collected and analyzed the information from previous similar projects

**Guangdong Institute of Laser Plasma Technology | Guangzhou, CH**

*Operation Assistant*  Aug 2020

* Took charge of the management work of the laboratory; Focused on the safety of the research environment
* Learned the safety requirements of using the lab equipment; Assisted in recording the information on daily usage
* Improved knowledge of laser-plasma technology and the real-world applications

**Shenzhen Poly Culture Development Co. Ltd. | Shenzhen, CH**

*Project Assistant*  Jun - Jul 2019

* Participated in the cultural promotion project designed by Poly; Helped implement the action plan among communities managed by Poly
* Enhanced communication skills and management capacity; Deepened an understanding of sustainable development of human living environment; Involved in promoting the idea of harmony between man and nature