# Huijie Zhang

### Personal Data

Address:	San Diego State University
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#### Education

- 2022 (Expected) Ph.D., Geography, San Diego State University/University of California, Santa Barbara
- 2017 M.A., Applied Ecology & Evolution, Stony Brook University
- 2014 M.S., Ornamental Plants and Horticulture, Huazhong Agricultural University
- 2011 B.S., Landscape Gardening, Huazhong Agricultural University

#### **Research Interests**

Machine learning, computer vision, pattern recognition, remote sensing image processing and analysis, spatial data analysis

#### Publications

- 1. **Huijie Zhang**, Li An, Small Object Detection in Urban Environment Using Convolutional Neural Network from Scratch *(in prep)*
- 2. **Huijie Zhang**, Li An, Richard Bilsborrow, Yongwan Chun, Shuang Yang, Jie Dai, Neighborhood Impacts on Household Participation in Payments for Ecosystem Services Programs: Methodological Exploration in China. *(Submitted)*
- Huijie Zhang, Chi Gao, Yan Du (2013), The Application of the Stormwater and Wastewater Management in the Lakes Protection Planning of Wuhan City: Case Study of Yangchun and East Lake Connection Park Planning and Design of the Water Network Connection Project of East Lake in Wuhan City, *Chinese Society of Landscape Architecture (CHSLA) Annual Summit.* (Best Paper Award, in Chinese)
- 4. **Huijie Zhang**, Hongfei Qiu (2010), A Brief Discussion of the Heritage of the Campus Context in College Environment: with the Instance of Wuhan College Campus Environment *Huazhong Architecture*, 28(5), 141-144. (in Chinese)

#### Awards and Honours

- 2020 Graduate Student Travel Fund (Spring Cycle), San Diego State University
- 2011 1st Prize, Planning Work, "Yuan Ye Award" International Landscape Architecture Graduate Student Design/Thesis Competition
- 2010 Gold Award, Student Design/Thesis Competition "Challenge Cup" Business Plan Competition for College Students, Hubei Province, China
- 2010 3rd Prize, College Students Excellent Scientific Research Achievements Award, Hubei Province, China
- 2010 China National Scholarship (Top 1%)
- 2009 China National Scholarship (Top 1%)
- 2008 China National Scholarship (Top 1%)

#### Services

2019-2020 Lounge Committee, Department of Geography, University of California, Santa Barbara
2009-2010 Vice President, College of Horticulture and Forestry Science, Huazhong Agricultural University

## **Research Experince**

2015 10 2017	02 The Interaction between Elevated CO2 and Competition a Mate analysis
2015.10-2017	.02 <b>The Interaction between Elevated CO2 and Competition: a Meta-analysis</b> The study conducts a factorial meta-analysis aiming to synthesize the effects of elevated CO2, competition, and their interaction on aboveground biomass across 88 case studies from 20 different articles. The main effects of elevated CO2, competition and their interactions are compared, and the heterogeneities between studies are analyzed.
2013.07-2014	An Application of Multi-Attribute Decision Making for Evaluating Industrial Heritage in Nananzui and Guibei Area of Wuhan The study analyzes 29 MADM methods and sets up guidelines for method selection. It builds the industrial heritage evaluation model and assesses the industrial heritage in the area with the MAVT, ELECTRE III, PROMETHEE I and PROMETHEE II methods. A comprehensive evaluation of this area is proposed based on the results of four methods and sensitivity analysis.
2012.09-2013	.01 Conceptual Master Plan of the 10th China (Wuhan) International Garden Expo The study assesses the ecological sensitivity of the site to decide landuse form. It explores the ecological rehabilitation method of land <sup>D</sup> ills, constructs transportation landscape infrastructure system to solve the traffic problems, and researches the sustainable way of the garden expo.
2011.03-2011	.06 <b>Yangchun and East Lake Connection Park Planning and Design of</b> <b>the Water Network Connection Project of East Lake in Wuhan City</b> The study explores the application of the stormwater and wastewater management in the lake protection planning of wuhan city, and the ecological rehabilitation methods for lakes and land <sup>D</sup> ills.
Teaching E	xperiences
Fall 2020	GEOG 585 Quantitative Methods in Geographic Research
	Teaching Associate, San Diego State University
Fall 2020	GEOG 104 Geographic Information Sciences and Spatial Reasoning
	Tooching Accordiate San Diago State University

Fall 2020	GEOG 104 Geographic Information Sciences and Spatial Reasoni
	Teaching Associate, San Diego State University
Spring 2019	GEOG 385 Spatial Data Analysis
	Teaching Associate, San Diego State University
Fall 2018	GEOG 385 Spatial Data Analysis
	Teaching Associate, San Diego State University

## Skills

R, Python, Matlab, C/C++, ArcGIS, ERDAS