

MEIXIN YUAN

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EDUCATION

- Expected 12/2024 **University of Michigan, Ann Arbor, USA**
Ph.D. in Urban and Regional Planning
Specialized in planning support system, urban analytics, environmental health.
Dissertation Project: "Building New Knowledge for Action on Urban Health Equity Through Activity Spaces from Big Data and Planning Support Systems"
Advisor: Robert Goodspeed
- 01/2023 **Master of Science in Information**
Track: Big data analytics
- 04/2020 **University of Michigan, Ann Arbor, USA**
Master of Urban and Regional Planning
Capstone project: [Envisioning a decentralized compost system for Detroit](#)
- 07/2017 **Northwest A&F University, Yangling, China**
Bachelor of Agriculture in Landscape Architecture

RESEARCH

- 06/2023- Present **Research Assistant, University of Michigan. *Neighborhood Effect***
Compared multiple user location-prediction methods based on geotagged Twitter data and survey responses from Twitter users.
- 01/2023- 04/2023 **Graduate Student Research Assistant, University of Michigan**
Egalitarian Metropolis, Racializing Space
Examine the impact of space/property ownership on household wealth creation in Detroit using GIS mapping and archival data.
- 06/2020 - 08/2021 **Graduate Student Research Assistant, University of Michigan**
Benton Harbor Smart Mobility
Analyzed and visualized travel patterns in two Michigan counties with transportation big data (SafeGraph, Streetlight) and Michigan Household Travel Survey data using Python and ArcGIS. Contributed to the scenario planning process design and programming by: conducting case studies, creating scenario performance evaluation metrics, sketching possible optimized public transit networks with GeoPandas and Leaflet, and conducting quantitative analysis for potential scenarios.
- 07/2019 **Research Assistant, University of Michigan**
The Structure of Real Estate Industry in China
Collected historical data regarding the funding sources of the real estate industry of China from 1999-2018. Analyzed and visualized historical annual construction data of top three Chinese real estate companies with Python and Excel.
- 10/2016 - 01/2018 **Research Assistant, Northwest A&F University**
Impact of Urban Park Built Environment on the Promotion of Users' Physical Activity
Utilized GIS and satellite images to investigate the built environment attributes of 40 Xi'an urban parks focused on physical activity; analyzed the research findings and provided intervention suggestions.

FUNDED RESEARCH PROJECT

- 8/2023 - Present **University of Michigan, Create Usable New Knowledge of Health Equity From Big Data With PSS**
 \$2,185, Student Principle Investigator
 With the new understanding of health equity that incorporates activity space measures derived from big data, the project aims to explore how this knowledge can potentially inspire new policies to promote a more sustainable future in the seven-county Southeast Michigan region.

PROFESSIONAL EXPERIENCE

- 06/2022 - 08/2022 **Community Engagement Research and Data Analysis Intern, University of Michigan-Dearborn, Office of Metropolitan Impact**
 Dearborn, Michigan, USA
 Analyzed community engagement activity data between 2013-2021 using Python and Excel. Analyzed and suggested on information systems based on institutional needs and data requirements for Carnegie Elective Community Engagement Reclassification. Reported and communicated findings, requests, and suggestions with the UM-Dearborn provost office and ITS department.
- 06/2021- 08/2021 **Professional Summer Associate (Remote), GeoAdaptive LLC**
 Boston, Massachusetts, USA
 Conducted nationwide climate hazard exposure analysis of Costa Rica and created a Tableau dashboard based on the analysis. Created spatial models with ArcGIS Pro to analyze food security measurements of Northwest Haiti to help provide policy suggestions for Haiti's post-COVID recovery. Analyzed the climate hazard risks, urban structure, and urban development opportunities in 5 Nepal municipalities with ArcGIS and ArcPy.
- 08/2019 **Landscape Architect Intern, SmithGroup**
 Ann Arbor, Michigan, USA
 Analyzed and visualized data of Facility Condition Index. Updated the comprehensive campus plan of a state university. Modeled and created graphics for two design sections of a landscape design project.
- 05/2019 - 06/2019 **GIEP Fellow - Spatial Analyst Intern, Social Justice Coalition**
 Cape Town, Western Cape, South Africa
 Analyzed 6 years' historical aerial images of Khayelitsha, Cape Town, using spatial analysis (Arc GIS) and machine learning (ERDAS IMAGINE) tools to depict the change of informality footprint and wrote a report. Built a website for analysis results; designed promotional materials about legal housing rights of informal dwelling residents.
- 07/2016 - 08/2016 **Landscape Architect Intern, HASSELL**
 Shanghai, China

HONORS AND FELLOWSHIPS

- 2023 Rackham Graduate Student Research Grant (\$2,185)
- 2023 Outstanding Doctoral Student Service Award in Urban and Regional Planning
- 2022 Michigan Association of Planning (APA), Outstanding Graduate Student Project (Graduate Student Instructor of the team)
- 2021 Rackham Spring/Summer Internship Fellowship (\$10,000)
- 2019 Michigan Association of Planning (APA) , Outstanding Graduate Student Project for Capstone (Team member, GIS analysis lead)
- 2017
- 2015 Global Information Engagement Program Fellowship (\$4,100, travel and living stipend)
- 2015 Northwest A&F University, Outstanding Graduate Scholarship (CNY ¥ 10,000)
- 2015 Northwest A&F University, First Grade Scholarship (CNY ¥ 2,000)

PUBLICATION

- 2021 Goodspeed, R., **Yuan, M.**, Krusniak, A., & Bills, T. (2021). Assessing the Value of New Big Data Sources for Transportation Planning: Benton Harbor, Michigan Case Study. In *Urban Informatics and Future Cities* (pp. 127-150). Springer, Cham.

PRESENTATIONS

- 2023 **Yuan, M.** *Building New Knowledge for Action on Urban Health Equity Through the Study of Activity Spaces Using Big Data: A Case Study of Southeast Michigan*. Association of Collegiate Schools of Planning (ACSP), forthcoming, Oct., Chicago.
- 2023 **Yuan, M.**, *The use of social media data in urban studies*. URP 535/SI536 Urban Informatics, Ann Arbor, MI
- 2021 Goodspeed, R., **Yuan, M.**, *Assessing the Value of New Big Data Sources for Transportation Planning: Benton Harbor, Michigan Case Study*. International Conference on Computational Urban Planning and Urban Management, Helsinki, Finland, June. (Virtual)

TEACHING

Graduate Student Instructor, University of Michigan

- 01/2022 - 04/2022 URP 603: Master of Urban and Regional Planning Capstone Project, [Rise Above Deluge](#)
- 09/2021 - 12/2021 URP 520, Introduction to GIS
- 01/2020 - 04/2020 URP 521, Intermediate GIS
- 09/2019 - 12/2019 ENV 309, GIS Exploration

SERVICES AND ACTIVITIES

- 08/2022 – Present Urban and Regional Planning PhD student Co-Coordinator, University of Michigan
- 01/2020 – 04/2022 Vice President of Smart Cities Club, University of Michigan
- 10/2019 – 04/2021 Taubman College Student Council Representative, University of Michigan
- 12/2019 – 03/2020 Data and Technology-Based Planning Faculty Search Committee, University of Michigan
- 10/2019 – 04/2020 Editor of AGORA Student Journal, University of Michigan