

# Haoyu Yue

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Gould Hall 012C, 3950 University Way NE, Seattle, WA, 98195

## Research Interests

Climate, Clean Energy and Infrastructure Planning, AI for Public Goods/Urban Planning

## Education

2020 – present

**University of Washington** – Seattle, WA

Interdisciplinary Ph.D. in Urban Design and Planning

Advisors: Jan Whittington, Qing Shen

Master of Urban Planning in Urban Informatics

Advisors: Jan Whittington, Arthur Acolin

Certificate in Social Statistics, *Center for Statistics and the Social Science*

Certificate in Public Policy and Management, *Evans School of Public Policy and Governance*

Certificate in Clean Energy Science, Engineering, and Society, *Clean Energy Institute*

2015 – 2020

**Central South University** – Changsha, P.R.China

Bachelor of Engineering in Urban and Rural Planning

## Publications

2023 Whittington, J., Shen, Q., Sun, F., Ning, S., Yue, H., Chen, C., & McMichael, R. (2023). *Keeping it on the Tracks: High-speed Rail Success and Lessons Learned*. Seattle, WA: Mobility Innovation Center, University of Washington. Full Report.

2022 Yue, H. (2022). Does Climate Investment Funding Intensify Green Gentrification in San Francisco-Oakland-Berkeley Bay Area?. University of Washington.

Zhai, W., Yue, H., & Deng, Y. (2022). Examining the Association Between Urban Green Space and Viral Transmission of COVID-19 during the Early Outbreak. *Applied Geography*, 147, 102768, 9–14. <https://doi.org/10.1016/j.apgeog.2022.102768>.

Zhai, W., & Yue, H. (2022). Economic Resilience during COVID-19: An Insight from Permanent Business Closures. *Environment and Planning A: Economy and Space*, 54(2), 219–221. <https://doi.org/10.1177/0308518X211055181>.

## Research Experience

2024 **Value Community-based and AI-powered Microgrids**

*Microsoft Research* | Collaborator: Peeyush Kumar

**Web-based Application for Climate-smart Capital Investment**

*Climate Solutions International* | PI: Sofia Dermisi and Jan Whittington

**Mobility Hub Electrification Blueprint**

*Mobility Innovation Center with King County Metro, Sound Transit, and Seattle City Light* | PI: Jan Whittington; Co-PIs: Chris Lee, Rachel Berney

- 2023 **Solar and Transportation Electrification for the University of Washington**  
*UW Transportation Services | PI: Jan Whittington*
- Climate-smart Capital Investment Plan for Montgomery County, MD**  
*Montgomery County | PI: Jan Whittington; Co-PI: Adrienne Greve (Cal Poly)*
- 2022 **Ultra High Speed Ground Transport: An Evaluation**  
*Challenge Seattle, Mobility Innovation Center | PI: Jan Whittington; Co-PI: Qing Shen*
- 2021 **Social Vulnerability & Resilience during Covid-19 Pandemic**  
*Urban AI + Resilience Lab, UTSA | Collaborator: Wei Zhai*
- Effects of Zoning and Land Use Policies on Land Value and Densification**  
*PI: Christine Bae*
- 2020 **Land Consolidation Research for Shenzhen Urban Renewal**  
*Shenzhen Urban Planning & Land Resource Research Center*

## Honors and Scholarships

- 2024 – 2025 Microsoft Research AI & Society Fellow (Microsoft Research – \$45,000)
- 2023 Spatial Social Network Workshop Graduate Travel Support (Georgia Tech – \$500)
- 2022 – 2023 Hall-Ammerer-WRF Ph.D. Fellowship in Interdisciplinary Studies (Graduate School, University of Washington – \$45,000)
- 2021 Urban Design and Planning Student Scholarship (University of Washington – \$1,500)  
 Smart City Hackathon – Second Prize (University of Texas, Austin – \$500)
- 2018 Esri Chinese College GeoDesign Prize (Esri China, Chinese Society for Geodesy, Photogrammetry and Cartography)
- 2016 – 2019 Annual Undergraduate Student Scholarship × 4 (Central South University)

## Teaching

- 2024 URBDP 598: Doctoral Colloquium (Co-organizer, with Siman Ning)
- 2023 – 2024 URBDP 498/598: Solar Vertically Integrated Project (Co-advisor, with Jan Whittington)

## Individual Instruction

- 2024 Co-adviser with Phillip Bruner and Christian Phillips, MBA Strategic Consulting Project, Foster School of Business, University of Washington, *Enabling Access to Finance for Tribal Ownership of Renewable Energy*, Mengyin He, Kelsey Mara, Ni Zhang.
- 2023 Co-adviser with Peeyush Kumar and Jan Whittington, Launch Project, Global Innovation Exchange, University of Washington, *Investing in Sustainability: Solar Farms for Sustainable Communities*, Chris Ge, Namratha Shivaraju, Yvonne Yang.

## Conferences

- 2022 Yue, Haoyu, Jan Whittington, Acolin Authur. "Does Climate Investment Funding Intensify Green Gentrification in Bay Area?" *Annual Conference of the Association of Collegiate Schools of Planning*, Toronto, Canada, November 3-6, 2022.

- 2021 Bae, Christine , Boyang Sa, Eric Guida, Haoyu Yue. "It Takes a Village to Make Urban Villages Work: Effects of zoning and land use policies on property value and densification in the City of Seattle." *Annual Conference of the Association of Collegiate Schools of Planning*, Online, October 7-23, 2021

## Service

- 2024 Co-organizer – Annual Ph.D. Symposium, Interdisciplinary Ph.D. Program in Urban Design and Planning, University of Washington
- 2023 – 2024 Student Representative – Steering Committee for the Interdisciplinary Ph.D. Program in Urban Design and Planning, University of Washington
- 2022 – 2023 Reviewer – Humanities and Social Sciences Communications (2)

## Memberships

- 2022 – present Student member, Association of Collegiate Schools of Planning  
Student member, American Association of Geographers
- 2020 – present Student member, International Association for China Planning  
Student member, American Planning Association

## Technical Skills

### Programming languages

Python, R, SQL, HTML/JavaScript/CSS, D3.js

### Software

LaTeX, Git, ArcGIS, QGIS, Microsoft Office Suite, SketchUp, Adobe Creative Cloud Suite

### Languages

English (fluent), Chinese (native)