

Haoyu Yue

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Gould Hall 12C, 3950 University Way NE, Seattle, WA, 98195

Research Interests

Climate Change, Clean Energy Transition and Infrastructure Planning, Artificial Intelligence and Data Science for Public Goods/Urban Planning

Education

- 2020 – Present **University of Washington** – Seattle, WA
Interdisciplinary Ph.D. in Urban Design and Planning
Co-advisors: Jan Whittington, Qing Shen

Master of Urban Planning in Urban Informatics
Thesis Committee: 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 **Web-based App 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 | PI: Wei Zhai
- 2020 **Land Consolidation Research for Shenzhen Urban Renewal**
Shenzhen Urban Planning & Land Resource Research Center

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

Honors and Scholarships

- 2024 – 2025 Microsoft Research AI & Society Fellows (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)

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 Peer 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)