

Haoyu Yue

yohaoyu.github.io • yohaoyu@u.washington.edu

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

Research Interests

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

Education

- 2020 - **University of Washington** – Seattle, WA
Interdisciplinary Ph.D. in Urban Design and Planning
Committee: Jan Whittington, Qing Shen
Master of Science in Statistics (Statistical Learning Track)
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, *School of Public Policy and Governance*
Certificate in Clean Energy Science, Engineering, and Society, *Clean Energy Institute*
- 2020 **Central South University** – Changsha, China
Bachelor of Engineering in Urban and Rural Planning

Experience

- 2024 - **Microsoft Research** – Redmond, WA
AI & Society Fellow Program
- 2024 - **Climate Solutions International, Inc.** – Seattle, WA
Affiliated Researcher
- 2021 - **University of Washington** – Seattle, WA
Research Assistant, Urban Infrastructure Lab
- 2020 **Shenzhen Urban Planning & Land Resource Research Center** – Shenzhen, China
Intern, Land Consolidation Research Institute

Publications

- 2025 Ning, S., Yue, H., Whittington, J. (2025). Economic Impact Analysis of Community Solar Programs for the State of Washington . Seattle, WA: University of Washington.
- 2024 Whittington, J., Berney, R., Lee, H.W., Treece, B., Ning, S., Chen, C., Muiruri, K., Yue, H., & Machala, T. (2024). *Electrified Mobility Hubs: A Blueprint for the Future of Transit Infrastructure*. Seattle, WA: Mobility Innovation Center, University of Washington.
- 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. <http://hdl.handle.net/1773/51414>.
- 2022 Yue, H. (2022). Does Climate Investment Funding Intensify Green Gentrification in San Francisco-Oakland-Berkeley Bay Area?. University of Washington. Online Access.

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>.

Honors and Scholarships

- 2024 - 25 Microsoft Research AI & Society Fellowship (Microsoft Research – \$45,000)
- 2024 Urban Design and Planning Special Service Recognition Award (Department of Urban Design and Planning, University of Washington)
- 2023 Spatial Social Network Workshop Graduate Travel Support (Georgia Tech – \$500)
- 2022 - 23 Hall-Ammerer-WRF Ph.D. Fellowship in Interdisciplinary Studies (Graduate School, University of Washington – \$50,000)
- 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 - 19 Annual Undergraduate Student Scholarship × 4 (Central South University)

Teaching and Mentorship

- 2025 CEP 473: Digital Design Practicum (spring, undergrad elective, modification of existing course)
- 2024 URBDP 598: Doctoral Colloquium (spring and autumn, co-organizer, with Siman Ning)
- 2023 - 24 URBDP 498/598/ENGR 497: Vertically Integrated Project - UW Solar (each quarter, co-advisor, with Jan Whittington)

Mentorship

- 2024 Cecilia Hung, Yongzhe Jiang, Matilda Huang, Yifan Wang, Master Student in Technology Innovation, University of Washington, *AI-powered Community Energy Platform*, co-adviser with Peeyush Kumar and Jan Whittington.
- Mengyin He, Kelsey Mara, Ni Zhang, MBA Student, Foster School of Business, University of Washington, *Enabling Access to Finance for Tribal Ownership of Renewable Energy*, co-adviser with Phillip Bruner and Christian Phillips.
- 2023 Donghang Li, Graduate Student in Transportation at Massachusetts Institute of Technology
- Chris Ge, Namratha Shivaraju, Yvonne Yang, Master Student in Technology Innovation, University of Washington, *Investing in Sustainability: Solar Farms for Sustainable Communities*, co-adviser with Peeyush Kumar and Jan Whittington.

Presentations

- 2025 Yue, Haoyu. "AI-powered Microgrids for Community Resilience and Equity" *Microsoft AI & Society Research Talk Series*, Online, May 14, 2025.

- Yue, Haoyu, Jan Whittington, Siman Ning, Christian Phillips. "Actions to Investment: An Exploration of Complex Nexus Between Climate Action Plans and Capital Investment Plans" *International Conference on Urban Affairs*, Vancouver, Canada, April 15-19, 2025.
- 2024 Yue, Haoyu, Wei Zhai, Jan Whittington. "Plans to Action: Do Climate Action Plans Matter for Climate Investments?" *Annual Conference of the Association of Collegiate Schools of Planning*, Seattle, WA, November 7-9, 2024.
- Yue, Haoyu. "Artificial Intelligence as a Form of Infrastructure" *Microsoft Research AI & Society Fellows Workshop*, Boston, MA, October 16-17, 2024.
- 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 Seattle." *Annual Conference of the Association of Collegiate Schools of Planning*, Online, October 7-23, 2021

Grants

- 2024 Transportation Electrification. Washington Electric Vehicle Charging Program, in partnership with UW Transportation Services and Hoseok Sa. \$355,500.

Services

- 2024 Organizer – Planning for a Changing Climate: Key Considerations Ph.D. Symposium
Program Assistant – Urban@UW Initiative
- 2023 - 24 Student Representative – Steering Committee for the Interdisciplinary Ph.D. Program in Urban Design and Planning, University of Washington
- 2022 - 24 Manuscript Reviewing – Humanities and Social Sciences Communications; Air Quality, Atmosphere & Health

Memberships

- 2022 – Student member, Association of Collegiate Schools of Planning
Student member, American Association of Geographers
- 2020 – 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)

Last updated: September 5, 2024