Haoyu Yue

www.yuehaoyu.com · yohaoyu@washington.edu Urban Infrastructure Lab, Gould Hall, 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
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Interdisciplinary Ph.D. in Urban Design and Planning

Committee: Jan Whittington, Qing Shen

Master of Urban Planning in Urban Informatics

Advisors: Jan Whittington, Arthur Acolin (Real Estate)

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

Pre-doctoral Instructor, Department of Urban Design and Planning

2020 Shenzhen Urban Planning & Land Resource Research Center – Shenzhen, China

Intern, Land Consolidation Research Institute

Research Projects

2025 Planning for Solar investment at the Convergence of Resilience and Equity (SCORE)

U.S. Department of Energy | PI: Nick Grue (NREL); Co-PI: Jan Whittington

2024 Web-based Application for Climate-smart Capital Investment

Climate Solutions International | PIs: 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

Publications

- Ning, S., Yue, H., Whittington, J. (2025). Economic Impact Analysis of Community Solar Programs for the State of Washington . Seattle, WA: University of Washington.
- 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.
- 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.
- 2022 <u>Yue, H.</u> (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 Green Space and Viral Transmission of COVID-19 during the Early Outbreak. *Applied Geography*, 147, 102768, 9–14.

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.

Honors and Scholarships

- 2025 Graduate Student Conference Awards (Graduate School, University of Washington \$500)
- 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 Group (each quarter, coadvisor, with Jan Whittington)

Mentorship

- 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 Chris Ge, Namratha Shivaraju, Yvonne Yang, Master Student in Technology Innovation, University of Washington, *Investing in Sustainability: Solar Farms for Sustainable Communities*, coadviser with Peeyush Kumar and Jan Whittington.

Presentations

- Yue, Haoyu. "AI-powered Microgrids and Infrastructure 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.
- 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.
- 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, <u>Haoyu Yue</u>. "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

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 Ad hoc reviewer 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