Yuchen WANG

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Urban and Regional Science
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RESEARCH INTERESTS

- Artificial Intelligence for Planning
- Urban and Geospatial Foundation Models
- Urban Analytics and Modeling
- Geospatial Artificial Intelligence (GeoAI)
- Urban and Campus Digital Twins
- Human Mobility and Dynamics

EDUCATION

2025–pres. **Ph.D.**, Urban and Regional Science, Texas A&M University (expected 2029)
Advisors: Dr. Wei Li and Dr. Xinyue Ye

2020–2023 **M.Eng.**, Urban and Rural Planning, Huazhong University of Science and Technology
Advisor: Dr. Helin Liu

2015–2020 **B.Eng.**, Urban and Rural Planning, Huazhong University of Science and Technology

PUBLICATIONS

- **Peer-Reviewed Journal Articles** (* corresponding author)

2026 8. **Wang, Y.**, & Ye, X. A campus digital twin framework for visualizing and managing anxiety-related stress among college students. *Frontiers in Artificial Intelligence*, 9, 1796722. https://doi.org/10.3389/frai.2026.1796722

2026 7. **Wang, Y.**, Ye, X., Wang, S., & Jain, D. Mapping the affordability of campus digital twin implementation in the United States. *Smart Cities*, 9(8), 122. https://doi.org/10.3390/smartcities9080122

2026 6. Wu, L., **Wang, Y.***, Lee, C. S., Li, W., & Ye, X. A systematic review of cybercrime in hybrid cyber–physical space. *American Journal of Criminal Justice*. https://doi.org/10.1007/s12103-026-09938-8

2026 5. Wu, L., **Wang, Y.***, Lee, C. S., Li, W., Zhang, J., & Ye, X. Cybercrime education in U.S. criminology and criminal justice doctoral programs: Curricula, faculty capacity, and interdisciplinary challenges. *Journal of Criminal Justice Education*, 37(2), 324–343. https://doi.org/10.1080/10511253.2026.2648029

2024 4. Liu, H., Zhang, M., **Wang, Y.***, et al. Types of shrinking villages and flexible planning strategies in the Jianghan Plain region: Based on an investigation of 606 villages in Xiantao City. *Resources Science*, 46(2), 407–420. https://doi.org/10.18402/resci.2024.02.12 [in Chinese]

2024 3. Liu, H., Tang, Y., Huang, Y., **Wang, Y.***, et al. Optimization path of municipal territorial space use regulation system for functional governance: Taking Ezhou City as an example. *Planners*, 40(6), 8–15. [in Chinese]

2023 2. **Wang, Y.**, Liu, H., Huang, Y., et al. Reform path of territorial space planning compilation,

inspection, and approval at city level: A case study of Ezhou City. *Planners*, 39(5), 83–89. [in Chinese]

2021 1. **Wang, Y.**, Liu, H., Liu, F., et al. The reform path of planning permission system under the background of land use examination and approval decentralization. *Planners*, 37(15), 13–18. [in Chinese]

- **Manuscripts Under Review**

In Review 3. **Wang, Y.**, Ye, X., Hong, L., & Garcia, L. A prototype community–patient digital twin framework for oral healthcare. *JMIR Medical Informatics*.

In Review 2. **Wang, Y.**, Ye, X., Li, W., & Yigitcanlar, T. Urban foundation models for planning: A systematic review and research agenda. *Journal of Planning Literature*.

In Review 1. Gong, W., Srivastava, U., **Wang, Y.**, Jia, Y., Wu, Q., Bai, W., Yang, Y., Huang, X., & Ye, X. Earth embeddings reveal diverse urban signals from space. *npj Nature Sustainability*. arXiv:2604.03456.

- **Working Papers**

In Prep. 1. **Wang, Y.**, Ye, X., & Srivastava, U. Revealing urban signals from large to small cities: A cross-scale transfer study via AlphaEarth geospatial foundation model embeddings.

- **Conference Proceedings**

2025 4. Gong, W., **Wang, Y.**, Cui, S., & Ye, X. WIP: Impact of the CHIPS & Science Act on engineering education: Analyzing funding trends and institutional growth. In *2025 IEEE Frontiers in Education Conference (FIE)*, Nashville, TN, USA. https://ieeexplore.ieee.org/abstract/document/11328582

2021 3. **Wang, Y.**, & Liu, H. Spatial pattern, spatial correlation and guidance strategy of low-carbon industry in Wuhan metropolitan area. In *Proceedings of the 2021 Annual Conference on Urban Planning in China*, pp. 1–9. [in Chinese]

2021 2. **Wang, Y.**, & Liu, H. Spatial distribution characteristics and location influencing factors of electric vehicle charging stations in Wuhan. In *Proceedings of the 2021 Annual Conference on Urban Planning in China*, pp. 1–8. [in Chinese]

2020 1. **Wang, Y.**, Liu, Z., et al. Spatial supply–demand matching of electric vehicle charging stations in Wuhan based on multi-source data. In *Proceedings of the 2020 Annual Conference on Urban Planning in China*, pp. 1–10. [in Chinese]

PRESENTATIONS

- **Conference Presentations**

2027 7. **Wang, Y.**, Ye, X., Hong, L., & Garcia, L. A prototype community–patient digital twin framework for oral healthcare. 2027 American Association of Geographers (AAG) Annual Meeting, New York, NY, USA, February 2027. [Oral]

2026 6. **Wang, Y.**, & Ye, X. Urban foundation models for urban analytics and applications: A systematic review. Association of Collegiate Schools of Planning (ACSP) 66th Annual Conference, Pittsburgh, PA, USA, October 2026. [Oral]

2026 5. **Wang, Y.**, & Ye, X. Urban foundation models for urban analytics and applications: A systematic review. Inaugural College of Architecture AI Symposium, Texas A&M University, College Station, TX, USA, October 5–6, 2026. [Poster]

2026 4. **Wang, Y.**, & Ye, X. Revealing urban signals from large to small cities: A cross-scale transfer pilot study via AlphaEarth geospatial foundation model. 2026 CAG/CARTO Annual Meeting, Victoria, BC, Canada, June 1, 2026. [Oral]

2026 3. **Wang, Y.**, Ye, X., Wang, S., & Jain, D. Toward equitable access to campus digital twins. 2026 American Association of Geographers (AAG) Annual Meeting, San Francisco, CA, USA, March 20, 2026. [Oral]

2026 2. **Wang, Y.**, & Ye, X. A campus digital twin framework for visualizing and managing anxiety-related stress among college students. Inaugural Annual Meeting of the Digital Twins for Health Society, Houston, TX, USA, January 20, 2026. [Oral]

2025 1. **Wang, Y.**, Ye, X., Wang, S., & Jain, D. Toward equitable smart campus development. College of Architecture 27th Annual Showcase, Texas A&M University, College Station, TX, USA, October 9, 2025. [Poster]

HONORS AND AWARDS

- **Fellowships, Scholarships, and Honors**

2026 Geospatial Fellow (C$400), Canadian Association of Geographers (CAG) GIS Study Group
2026 Student Fellow, Texas A&M Health Telehealth Institute, TAMU
2025 Top-Office Scholarship ($15,000; top 1%), LAUP, TAMU
2025 Graduate Research Assistantship (tuition waiver and $2,000/month stipend), LAUP, TAMU
2023 Outstanding Postgraduate (top 10%), HUST
2022 First-Class Scholarship (top 10%), HUST
2021 First-Class Scholarship (top 10%), HUST
2021 Merit Postgraduate (top 10%), HUST
2020 Outstanding Freshman Graduate Scholarship (top 10%), HUST
2020 Outstanding Undergraduate (top 10%), HUST
2018 Scholarship for Academic Progress (top 20%, $100), HUST
2016 Outstanding Individual in Summer Social Practice, HUST

- **Paper Awards and Travel Grants**

2026 First Place ($200), Ashok K. Dutt Outstanding Graduate Student Paper Award, AAG-RDPSG
2026 Student Travel Grant ($700), American Association of Geographers (AAG)
2026 Student Travel Grant ($600 × 3), LAUP, TAMU

- **Planning and Design Competitions**

2021 Silver Award (top 1%, $6,957), Wuhan Creative Design Contest on Urban Renewal Planning
2020 Nomination Award, WUPENiCity International Competition on Urban Design
2019 Silver Award (top 1%, $4,175), Wuhan Creative Design Contest on Public Space Design
2019 Second Award (top 5%), Chinese College Student Computer Design Competition
2019 Second Award (top 5%, $696), Wuhan Urban Street Design Competition
2018 Excellent Work Award, National Urban and Rural Social Practice Survey Competition

APPOINTMENTS AND PROFESSIONAL EXPERIENCE

- **Research Appointments**

  2025–pres. Graduate Research Assistant
  Department of Landscape Architecture and Urban Planning, Texas A&M University

  2026 Student Research Technician (Summer)
  Texas A&M Transportation Institute (TTI), College Station, TX, USA

- **Professional Planning Practice**

  2023–2025 Urban Planning Engineer (Full-time)
  MCC Southern Engineering Technology Co., Ltd., Wuhan, China

  2022 Assistant Urban and Rural Planner (Intern)
  Guangzhou Urban Planning Survey and Design Institute, Guangzhou, China

  2021 Assistant Urban and Rural Planner (Intern)
  Beijing Tsinghua Tongheng Planning and Design Institute, Beijing, China

  2020 Urban Planning Research and Data Analyst (Intern)
  Shenzhen QuantUrban Technology Co., Ltd., Shenzhen, China

TEACHING EXPERIENCE

Fall 2026 Lab Instructor
PLAN 604 Planning Methods I, LAUP, TAMU (Instructor: Dr. Xinyue Fu)
Prepared lab materials and led R lab sessions on coding basics, spatial analysis, regression analysis, and data visualization for urban planning.

ACADEMIC SERVICES

- **Professional Service**

  2026–2027 Co-Chair, Student Leadership, 14th Symposium on Human Dynamics Research, 2027 AAG

  2026–2027 Student Representative, AAG Regional Development and Planning Specialty Group

- **Journal Reviewer**

  Journal of Planning Education and Research; *Cities*; *Computational Urban Science*

- **Conference Volunteer**

  2026 Student Volunteer, ACSP 66th Annual Conference, Pittsburgh, PA, USA, October 2026

  2026 Student Volunteer, AAG Annual Meeting, San Francisco, CA, USA, March 2026

PROFESSIONAL SOCIETIES

American Association of Geographers (AAG); Association of Collegiate Schools of Planning (ACSP); Canadian Association of Geographers (CAG); International Association of Chinese Professionals in Geographic Information Sciences (CPGIS); International Association for China Planning (IACP)

SKILLS

Programming and WebGIS: Python, R, JavaScript, HTML/CSS, Mapbox

GeoAI and Modeling: PyTorch, TensorFlow, Machine Learning, Deep Learning, Computer Vision

GIS and Software: ArcGIS, QGIS, MATLAB, SPSS, Stata, Photoshop, Illustrator, SketchUp, AutoCAD