

---

# Jasmine Siyu Wu

**Department address:**

127 Meyerson Hall, 210 S. 34th Street  
Philadelphia, PA 19104

**Email:** jsiyuwu@upenn.edu**Phone:** +1 949 668 5008

## EDUCATION

2024- **University of Pennsylvania**

27 (Exp.) *Master of Arts in Statistics and Data Science*  
GPA 4.0/4.0

2023- **University of Pennsylvania**

27 (Exp.) *Doctor of Philosophy in City and Regional Planning*  
GPA 4.0/4.0

2021-23 **University of Pennsylvania**

*Master of City Planning*

GPA 3.97/4.0

Witte-Sakamoto Family Prize

2017-21 **University of Southern California**

*Bachelor of Science in GeoDesign, Minor in Architecture*

GPA 4.0/4.0

Discovery Honors

Departmental Honors

## AWARDS

2025 UPenn Prize for Excellence in Graduate Teaching

2023-4 FHWA Dwight David Eisenhower Transportation Fellowships

2022 FHWA Dwight David Eisenhower Transportation Fellowship

UPenn Witte-Sakamoto Family Prize

ACSP Ed McClure Award for Best Masters Paper Award

WTS Philadelphia Vision for Equity Award

2021 USC Emma Josephine Bradley Bovard Award

USC Academic Achievement Award

2020 USC Irving & Jean Stone Endowed Scholarship

USC Academic Achievement Award

USC Undergraduate Summer Internship Scholarship

2019 USC Goldman Family Scholarship Award

## RESEARCH INTERESTS

Transportation planning: accessibility, safety, and urban mobility equity

Urban informatics and spatial data sciences

Urban health and health justice

## PUBLICATIONS

### Articles in Peer-Reviewed Journals

8. **Wu, J.S.**, Dong, X., Walshe, E.A., Winston, F.K., and Ryerson, M.S. (accepted, est. 2025). "Understanding Links Between Young New Drivers' Skills and Driver Training, Economic Conditions, and Home Neighborhood Urbanicity: Evidence from the State of Ohio". *Transportation Research Record: Journal of the Transportation Research Board*.
7. Dong, X., **Wu, J.S.**, Walshe, E.A., Winston, F.K., Cheng, S., and Ryerson, M.S. (2024). "Adult-Supervised Practice in Learner's Permit Phase Has A Significant But Limited Ability to Improve Safe Driving Skills" *Traffic Injury Prevention*. doi.org/10.1080/15389588.2024.2374538
6. **Wu, J.S.**, Dong, X., Green, J., and Ryerson, M.S. (2024). "The Role of the Built Environment, Roadway Characteristics, and Socioeconomic Factors in Keeping Teen Drivers Safe: An Investigation of the Factors most Related to Teen Driver Fatalities" *Transportation Research Record: Journal of the Transportation Research Board*. doi.org/10.1177/03611981241275543
5. Albers, L., Rogers, C.J., Steinberg, J., Vos, R.O., Soto, D., Lee, R., **Wu, J.S.**, and Unger, J.B. (2023). "Proximity to cannabis retailers and recent cannabis use among a diverse sample of California adolescents." *Substance Use & Misuse*. doi.org/10.1080/10826084.2023.2294965
4. Dong, X., **Wu, J.S.**, Walshe, E.A., Winston, F.K., and Ryerson, M.S. (2023). "Residing in a Driver Training Desert leads to Delayed Licensure: Investigating the Relationship between Accessibility to Driver Training and Young Driver's Licensure" *Findings*. doi.org/10.32866/001c.85096
3. Dong, X., **Wu, J.S.**, Jensen, S.T., Walshe, E.A., Winston, F.K., and Ryerson, M.S. (2023). "Financial status and travel time to driving schools as barriers to obtaining a young driver license in a state with comprehensive young driver licensing policy" *Accident Analysis and Prevention*. doi.org/10.1016/j.aap.2023.107198
2. Ryerson, M.S., Davidson, J., **Wu, J.S.**, Feiglin, I., Winston, F.K. (2022). "Identifying community-level disparities in access to driver education and training: Toward a definition of driver training deserts" *Traffic Injury Prevention*. doi.org/10.1080/15389588.2022.2125305
1. Unger, J.B., Vos, R.O., **Wu, J.S.**, Hardaway, K., Sarain, A.Y.L., Soto, D.W., Rogers, C., and Steinberg, J. (2020). "Locations of Licensed and Unlicensed Cannabis Retailers in California: A Threat to Health Equity?" *Preventive Medicine Reports*. 10.1016/j.pmedr.2020.101165

---

## Manuscripts in Preparation

6. Dong, X., **Wu, J.S.**, Guerra, E., Ryerson, M.S., Walshe, E.A. (est. 2025). "GDL-Mandated Comprehensive Driver Training Reduces Novice Young Drivers' Involvement in Seriously Injurious and Fatal Crashes".
5. Dong, X., Guerra, E., and **Wu, J.S.** (est 2025). "How have the associations between crash risks and roadway, speed, and the built environment changed after COVID-19?".
4. **Wu, J.S.** (est. 2025). "Mapping Driver Training Deserts: A Web-Based Decision-Support Tool for Equitable Resource Allocation in Ohio".
3. **Wu, J.S.** (est 2025). "The Role of Priming and Benefits Messaging in Public Support for Mandatory Driver Training for Teen Drivers".
2. **Wu, J.S.** (est. 2025). "Driving Delayed: Public Health and Planning Perspectives on Adolescent Mobility Access."
1. **Wu, J.S.** (est. 2025). "Navigating Changes in Teen Driving: Ohio's New Driver Training Landscape".

## CONFERENCE ACTIVITY

- 2025      Presenter (lectern). "Which young drivers develop safe driving skills? An investigation of relationships between young driver skills and driver training, home neighborhood urbanicity, and economic conditions" 104th Transportation Research Board Annual Meeting (Lectern Session: Preventing Crashes Through Policy, Training, and Education). In-Person. January 7.
- Presenter (poster). "Which young drivers develop safe driving skills?" 104th Transportation Research Board Annual Meeting. In-Person. January 7.
- 2024      Presenter (lectern). "Adult-Supervised Practice in Learner's Permit Phase Has A Significant But Limited Ability to Improve Safe Driving Skills" The Association for Advancement of Automotive Medicine's Annual Meeting. In-Person. November 13.
- Presenter (poster). "Financial Status and Travel Time to Driving Schools as Barriers to Obtaining A Young Driver License" 103rd Transportation Research Board Annual Meeting. In-Person. January 9.
- Presenter (lectern). "The Role of the Built Environment, Roadway Characteristics, and Socioeconomic Factors in Keeping Teen Drivers Safe: An Investigation of the Factors most Related to Teen Driver Fatalities" 103rd Transportation Research Board Annual Meeting (Lectern Session: Innovations in Understanding Crash Risk Across the Life Span). In-Person. January 8.
- 2023      Presenter (poster). "Financial Status and Travel Time to Driving Schools as Barriers to Obtaining A Young Driver License" Safety21 University Transportation Center Deployment Partner Consortium. In-Person. November 16.

- 
- Presenter (poster). "Mobility Disparities in Access to Early Licensure for Teens: Towards a Definition of Driving Training Deserts" 102nd Transportation Research Board Annual Meeting. In-Person. January 11.
- 2022 Presenter (oral). "Identifying community-level disparities in access to driver education and training: Toward a definition of driver training deserts" The Association for Advancement of Automotive Medicine's Annual Meeting. In-Person. October 12.
- 2021 Presenter (oral). "The Landscape of Health Behavior Bads in Greater Los Angeles: Estimating Population Exposure with Local Colocation Quotients (LCLQ)" The American Association of Geographers' Annual Meeting. Virtual. April 10.
- 2020 Presenter (oral). "Locations of Licensed and Unlicensed Cannabis Retailers in California: A Threat to Health Equity?" The American Association of Geographers' Annual Meeting. Virtual. April 6-10.

## INVITES GUEST LECTURES

- 2025 "Urban Research Methods" for CPLN 5280/URBS 4280: Undergraduate Urban Research Colloquium, University of Pennsylvania. Online. April 8.
- 2024 "From Data to Decisions: Using Visualization to Speak about City Planning" for CPLN 5050: Planning by Number, University of Pennsylvania. In-Person. April 14.

## RESEARCH EXPERIENCE

- 9/2021– **Disparities in Teens' Access to Driving Training and Driving Skills Acquisition**  
 Present University of Pennsylvania Center for Safety Mobility, Philadelphia, PA  
*Supervised by Dr. Megan S. Ryerson at UPenn to identify disparities in access to driver's education and understand inequities in access to teen driver's education, which imply mobility and transportation safety barriers to teen drivers. Employed different quantitative methods to locate geographies of low driving training access in Ohio and modeled factors associated with teen's completion of driving training using R (Ongoing).*
- 5/2023– **University of Pennsylvania Commuter Travel Survey (2023) Research Project**  
 9/2023 University of Pennsylvania Center for Safety Mobility & PennPraxis, Philadelphia, PA  
*Led by Dr. Megan Ryerson and Prof. Michael Fichman to analyze University of Pennsylvania Commuter Travel Survey 2023 data. Employed spatial data analytic skills to profile Penn commuter behaviors regarding sustainable development, composed a final report and technical document, and presented the findings to the University administrative offices, assisting with campus-wise decision-making.*
- 1/2021– **Literature Review of Pedestrian Safety in Geodesign**  
 5/2021 University of Southern California Spatial Sciences Institute, Los Angeles, CA  
*Directed by Dr. Robert Vos at USC to review the literature regarding pedestrian safety, urban planning, civil engineering, and geodesign. Wrote a literature review paper to propose applications*

---

*of geodesign in improving pedestrian safety to supplement traditional urban planning and civil engineering approaches.*

**3/2020– Landscape of Health Behavior Bads**

1/2022 University of Southern California Spatial Sciences Institute, Los Angeles, CA

*Processed spatial data of health behavior outlets as well as demographic groups in California to examine health equity. Created a reproducible spatial–analytical model for analyzing the potential equity implications of health behavior bads.*

**2019 Licensed and Unlicensed Cannabis Retailers**

University of Southern California Spatial Sciences Institute, Los Angeles, CA

*Examined and visualized the prevalence and concentration of licensed and unlicensed marijuana retailers and health justice issues in California.*

**2019 Operation Smile Research Project**

University of Southern California Spatial Sciences Institute, Los Angeles, CA

*Analyzed spatial data of historic patients and represented by maps, charts, and reports to Operation Smile, a nonprofit medical service organization providing life-saving reconstructive cleft and palate surgeries worldwide.*

## **PROFESSIONAL EXPERIENCE**

**2/2020– Professional Student Worker: GIS/Data Analyst**

5/2021 Los Angeles Department of Transportation, Los Angeles, CA

*Provided analytical support for different programs of Vision Zero, the data-driven initiative to eliminate traffic fatalities in Los Angeles by 2025. Duties included analyzing and visualizing spatial data for Vision Zero Priority Corridors, the Al Fresco Program, and Safe Routes to School.*

## **TEACHING EXPERIENCE**

### **University of Pennsylvania**

*Graduate Teaching Assistant*

2024 Sp. CPLN 5050: Planning by Numbers

*Held office hours and graded students' assignments.*

2024 Sp. CPLN 6220: Healthy People/Healthy Places

*Revised syllabus, facilitated seminar discussions, and designed method labs.*

2023 Fall CPLN 5000: Introduction to City and Regional Planning: History, Theory, and Contemporary Practice

*Held office hours, graded students' papers, guided walking tours, and facilitated discussion sessions.*

2022 Fall CPLN 6500: Transportation Planning Methods

*Held office hours, assisted grading, led lab sessions, and coordinated guest lectures.*

---

## SERVICE

### Academic Journal Peer Review

*Transportation Research Part D: Transport and Environment (18 articles)*

*Transportation Research Part F: Traffic Psychology and Behaviour (1 article)*

*Transportmetrica A: Transport Science (1 article)*

### Award Jury

*Council of University Transportation Centers Award for the Parker Policy and Planning Award (2024)*

### Conference Moderation

*68th Association for Advancement of Automotive Medicine's Annual Meeting Student Symposium, "Human, Crash, and Injury Factors" session (2024)*

## ORGANIZATIONS

2023-Present	Social Media Lead (Board) of WTS Philadelphia Student Chapter
2021-Present	Student Member of American Planning Association
2021-Present	Student Member of Association of Collegiate Schools of Planning
2022-Present	Student Member of Association for Advancement of Automotive Medicine
2021-Present	Member of USC chapter of Gamma Theta Upsilon
2021-Present	Member of USC chapter of Phi Beta Kappa
2022-23	Co-President and treasurer of Penn Transportation Club
2020-21	Member of American Association of Geographers
2019-21	Vice President of USC Chinese Student and Scholar Association

## SKILLS

Programming	R, Python, SQL, $\LaTeX$
Software	ArcGIS Pro/Online/Desktop, MS SQL Server Database, PostgreSQL/PostGIS, Adobe (Photoshop, InDesign, Illustrator), AutoCAD, Sketchup, Rhino, VISUM, VISSIM

Updated August 2025