
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

- 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

- 2023 FHWA Dwight David Eisenhower Transportation Fellowship
- 2022 FHWA Dwight David Eisenhower Transportation Fellowship
ACSP Ed McClure Award for Best Masters Paper Award
UPenn Witte-Sakamoto Family Prize
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
USC Undergraduate Research Associates Program
USC Summer Undergraduate Research Fellowships

RESEARCH INTERESTS

Transportation planning: accessibility, safety, and urban mobility equity

Urban informatics and spatial data sciences

Urban health and health justice

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 Columbus, OH MSA 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.

PUBLICATIONS

Articles in Peer-Reviewed Journals

- 2023 Albers, Larisa, Christopher J. Rogers, Jane Steinberg, Robert O. Vos, Daniel Soto, Ryan Lee, **Jasmine Siyu Wu**, and Jennifer B. Unger. "Proximity to cannabis retailers and recent cannabis use among a diverse sample of California adolescents." *Substance Use & Misuse* (2023): 1-8. doi.org/10.1080/10826084.2023.2294965
- 2023 Dong, Xiaoxia, **Jasmine Siyu Wu**, Elizabeth A. Walshe, Flaura K. Winston, and Megan S. Ryerson. "Residing in a Driver Training Desert leads to Delayed Licensure: Investigating the Relationship between Accessibility to Driver Training and Young Driver's Licensure" *Findings* (2023). doi.org/10.32866/001c.85096
- 2023 Dong, Xiaoxia, **Jasmine Siyu Wu**, Shane T. Jensen, Elizabeth A. Walshe, Flaura K. Winston, and Megan S. Ryerson. "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* 191 (2023): 107198. doi.org/10.1016/j.aap.2023.107198
- 2022 Ryerson, Megan, Joshua Davidson, **Jasmine Siyu Wu**, Ilil Feiglin, Flaura Winston. "Identifying community-level disparities in access to driver education and training: Toward a definition of driver training deserts" *Traffic Injury Prevention* (2022): 2125305. doi.org/10.1080/15389588.2022.2125305
- 2020 Unger, Jennifer B., Robert O. Vos, **Jasmine Siyu Wu**, Kimberly Hardaway, Ada Y. Li Sarain, Daniel W. Soto, Christopher Rogers, and Jane Steinberg. "Locations of Licensed and Unlicensed Cannabis Retailers in California: A Threat to Health Equity?" *Preventive Medicine Reports* 19 (2020): 101165. 10.1016/j.pmedr.2020.101165

Manuscripts in Preparation

- 2024 Dong, Xiaoxia, **Jasmine Siyu Wu**, Megan Ryerson. "Adult-Supervised Practice in Learner Permit Phase Has a Significant but Limited Ability to Improve Safe Driving Skills." *Accident Analysis and Prevention*. Spring 2024. (Under review).

-
- 2024 **Wu, Jasmine S.**, Xiaoxia Dong, Megan Ryerson. "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*. Spring 2024. (Under review).
- 2024 **Wu, Jasmine S.**, Xiaoxia Dong, Elizabeth Walshe, Flaura Winston, Megan Ryerson. "Understanding Links Between Teens' Access To Driver Education and Safe Driving Skills Development: Evidence from the State of Ohio" *Urban Findings*. Spring 2024.

CONFERENCE ACTIVITY

- 2024 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.
- 2024 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.
- 2023 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' 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.

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

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 USC chapter of Gamma Theta Upsilon |
| 2021-Present | Student Member of USC chapter of Phi Beta Kappa |
| 2022-23 | Student Member of Association for Advancement of Automotive Medicine |
| 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 | Python, R, SQL, \LaTeX |
| Software | ArcGIS Pro/Online/Desktop, MS SQL Server Database, PostgreSQL/PostGIS
RStudio, Anaconda, PyCharm, Jupyter Notebook
Adobe (Photoshop, InDesign, Illustrator), AutoCAD, Sketchup, Rhino
VISUM, VISSIM |

Updated March 2024