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# Jasmine Siyu Wu

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## EDUCATION

2023- **University of Pennsylvania**

Present *Doctor of Philosophy in City and Regional Planning*  
Weitzman Fellow

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

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: access, safety, and urban mobility

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Urban informatics and spatial data sciences  
Public health and equity

## RESEARCH EXPERIENCE

### 9/2021– **Disparities in Teens' Access to Driving Training**

Present University of Pennsylvania Center for Safety Mobility, Philadelphia, Pennsylvania  
*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).*

### 1/2021– **Literature Review of Pedestrian Safety in Geodesign**

5/2021 University of Southern California Spatial Sciences Institute, Los Angeles, California  
*Directed by Dr. Robert Vos at USC to review 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 Project**

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

University of Southern California Spatial Sciences Institute, Los Angeles, California  
*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, California  
*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, California  
*Provided analytical support for different programs of Vision Zero, the data-driven initiative to*

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*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

- 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. 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. doi.org/10.1016/j.pmedr.2020.101165

### Manuscripts in Preparation

- 2023 **Wu, Jasmine S.**, Jamaal W. Green, Xiaoxia (Summer) Dong, Megan Ryerson. "Understanding Teens Drivers' and Non-Teen Drivers' Interactions with the Socioeconomic and Built Environment of Crash Locations: Ohio as An Example" *Transportation Research Record*. Fall 2023.
- 2023 **Wu, Jasmine S.**, Xiaoxia (Summer) 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*. Summer 2023.
- 2023 Dong, Xiaoxia, **Jasmine Siyu Wu**, Elizabeth Walshe, Flaura Winston, Megan Ryerson. "Residing in a Driver Training Desert Leads to Delayed licensure: Investigating the relationship between accessibility to Driver Training and young driver's licensure" *Transport Findings*. Summer 2023.
- 2023 Dong, Xiaoxia, **Jasmine Siyu Wu**, Shane Jenson, Elizabeth Walshe, Flaura Winston, Megan Ryerson. "Mobility Disparities in Access to Early Licensure for Teens: Towards a Definition of Driving Training Deserts" *Accident Analysis and Prevention*. Summer 2023.
- 2023 **Wu, Jasmine S.**, Robert O. Vos, Mengya Xu, Orhun Aydin, Jennifer Unger, Jane Steinberg. "Landscape of Health Behavior Bads and Social Equity" *Health and Place*. Summer 2023.

## CONFERENCE ACTIVITY

- 2023 Presenter. "Mobility Disparities in Access to Early Licensure for Teens: Towards a Definition of Driving Training Deserts" Transportation Research Board Annual Meeting. In-Person. January 11.
- 2022 Presenter. "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.

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| 2021 | Presenter. "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. "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

9/2022- **University of Pennsylvania**

12/2022 Graduate Teaching Assistant

*CPLN 650 Transportation Planning Methods (Fall 2022)*

## ORGANIZATIONS

2022-Present	Member of Association for Advancement of Automotive Medicine
2021-Present	Member of American Planning Association
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

Languages	English (Advanced), Mandarin (Native)
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 May 2023