05/13/2026

Suiyuan Wang

Department of Geography
College of Art and Science
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EDUCATION

2020-Present	**Ph.D. Candidate**	Geography, University at Buffalo, NY *Advisor: Dr. Le Wang, Committee: Dr. Andrew Crooks, Dr. Jessie P. Poon* *Dissertation: Monitoring High Spatiotemporal Resolution Impervious Surface Change Using Ensemble Remote Sensing Foundation Models*
2019	**M.S.**	General Science, East Stroudsburg University, PA
2019	**B.S.**	Geography, Henan University, Henan, China

PROFESSIONAL APPOINTMENTS

2026 Spr.	**Teaching Assistant,** Department of Geography, University at Buffalo
2025 Spr.	**Adjunct Instructor,** Department of Geography, University at Buffalo
2024-2025	**Research Assistant,** Department of Urban and Regional Planning, University at Buffalo
2023-2024	**Research Assistant,** Center for Urban Studies, University at Buffalo
2021-2023	**Teaching Assistant,** Department of Geography, University at Buffalo

FUNDED PROPOSALS

2026.01-2027.01	**Google Cloud research grants ($1,000), PI: Suiyuan Wang** Foundation AI-Driven 0.6 m U.S. Impervious Surface Mapping
2025.12-2026.03	**SUNYAI Platform ($71,295, #2025-32),** PI: Le Wang, **Co-PI: Suiyuan Wang** Decoding Urban Scaling Theory with AI Foundation Models and Remote Sensing: U.S. 0.3-2 m Impervious Surface Mapping (2002-2024) and Peer City Discovery.

HONORS AND AWARDS

2026	**Graduate School Conference Travel Grant ($ 1,000),** University at Buffalo

2024, 2025	**AAG Student Travel Grants ($500),** Annual Meeting of the Association of American Geographers (AAG)
2024	**Student Paper Competition Award (3rd place, $150),** Middle States AAG
2024	**Student Honors Paper Competition Award (1st place, $500),** Remote Sensing Specialty Group, Annual Meeting of AAG
2024	**State of the Map US Scholarship ($500)**, State of the Map US conference (OpenStreetMap)
2021-2025	**Graduate School Conference Travel Grant (yearly $ 750),** University at Buffalo
2019	**Excellent Student Award,** Henan University
2017	**Provincial Outstanding Volunteer Team Award,** China Land Science Society funded project: Voluntary Activities in Village Land-Use Planning, in Changyuan County, Henan Province, China

PUBLICATIONS

Peer-reviewed Article

Published

Wang, S., & Wang, L. (2026). Quantifying High Spatiotemporal Impervious Surface Change with Time Series PlanetScope Imagery. *Remote Sensing Applications: Society and Environment*, 101890.

Yin, L., Silverman, R. M., **Wang, S.**, Patterson, K. L., & Rehman-Veal, A. (2026). Using ChatGPT to enhance public participation: an analysis of public comments to reschedule marijuana. *Transforming Government: People, Process and Policy*, 1-16.

Yin, L., **Wang, S**., Patterson, K. L., Silverman, R. M., & Rehman-Veal, A. (2024). Marijuana Dispensary Locations and Neighborhood Characteristics in New York City. *ISPRS International Journal of Geo-Information*, 14(1), 4.

Wang, S., & Wang, L. (2024). A Novel Framework for Mapping Updated Fine-resolution Populations with Remote Sensing and Mobile Phone Data. *Journal of Remote Sensing*, *4*, 0227. (IF: 8.8)

Patterson, K. L., Silverman, R. M., Rehman-Veal, A., Yin, L., & **Wang, S.** (2024). Building the Prison to Legal Drug Dealing Pipeline: A Comparative Analysis of Social Equity Policies in Recreational Cannabis Licensing. *Societies*, *14*(6), 88.

L'Huillier, J. C., Boccardo, J. D., Stewart, M., **Wang, S.**, Myneni, A. A., Bari, A. A., ... & Noyes, K. (2023). Gun violence revictimization in New York State: what increases the risk of being shot again? *Journal of trauma and acute care surgery*, 10-1097.

In progress

Wei, Liu., F. Yin, **Wang, S.** Evaluating GPT Models for Urban Environmental and Perceptual Attribute Labeling from Street View Images

Wang, S., & L. Wang. (2026). Nationwide U.S. very-high-resolution Impervious Surfaces Maps 2022-2024 with Ensemble Remote Sensing Foundation Models. *Remote Sensing of Environment*. *Special issue: Geospatial Foundation Models for Advancing Remote Sensing of Environment.* (In preparation,

planned submission by June 2026).

Yin, L., **Wang, S**., Patterson, K. L., Silverman, R. M., & Rehman-Veal, A. (2025). Exploring Media Perspectives and Public Sentiments of New York State Recreational Marijuana Legalization: Analyzing New York Times and Twitter Data using ChatGPT. (In submission).

Book Chapter

Published

Gibbes, C., **Wang, S.**, Yin, F., Dao, T. H. D., Vogt, B. (2026). Geovisualization and Remote Sensing: Bridging Complexity and Interpretation (Chapter 14). In E. Bunting, J. Southworth, C. Gibbes, & H. Herrero (Eds.), *Remote Sensing, Big Data, and GeoAI: Exploring Applications with Geospatial Insights*. Elsevier.

TEACHING EXPERIENCE

Solo Instructor, University at Buffalo

Map	GEO 120 **Maps: Earth from Above**, Spring 2025 (97 students) • Designed weekly lectures and assignments

Lab instructor, University at Buffalo

GIS	GEO 481/506 **Introduction to Geographical Information Systems**, Fall 2021 GEO 479/559 **GIS for Environmental Modeling**, Spring 2023
Remote Sensing	GEO 381 **Cartography**, Spring 2026, 2025, 2023, 2022 • Updated slides and materials for the lab from ArcMap to ArcGIS Pro GEO 483/553 **Remote Sensing**, Fall 2022

Guest lecture, University at Buffalo

Remote Sensing	Computational Urban Science Webinar, University of Pattimura (Indonesia) (Virtual), **Introduction to Remote Sensing**, May 2024
Drone	GEO 381 Cartography: **Introduction to Drone and Demo Flying**, April 2024

CONFERENCE PRESENTATIONS (SELECTED)

Wang, S and L. Wang. (2026). Quantifying High Spatiotemporal Impervious Surface Change with Time Series PlanetScope Imagery. *Annual Meeting of the Association of American Geographers*, San Francisco, CA. March 16-March 21, 2026.

Wang, S and L. Wang. (2024). Continuous monitoring of high spatial and temporal resolution impervious surfaces based on PlanetScope time series. *Annual Meeting of the Association of American Geographers*, Honolulu, Hawaii. April 16-April 20, 2024.

Wang, S and L. Wang. (2023). A novel framework for mapping updated fine-resolution populations with remote sensing and mobile phone data. *Annual Meeting of the Association of American Geographers,* Denver, CO. March 23-March 27, 2023.

Wang, S and L. Wang. (2022). Mapping fine-scale population distribution at the building level using improved geographical random forest with multi-source data. *Annual Meeting of the Association of American Geographers* (Virtual). February 25-March 1, 2022.

AFFILIATIONS & SERVICE

March 21, 2026	**Session Chair,** Spatiotemporal Analysis of Heat Exposure, Human Comfort, and Urban Land Cover, AAG
2024-2026	**Vice President**, Geography Graduate Student Associate, University at Buffalo
2023-2025	**Student Co-director**, Remote Sensing Specialty Group, AAG
2023	**Committee member**, Graduate Student Employees Union Spring Contract Bargaining Committee

Reviewer

International Journal of Remote Sensing

Mark Diamond Research Foundation Grant, University at Buffalo

PROFESSIONAL SKILLS

Basic Skills	Python, R, SQL, HTML, JavaScript
Specialized Skills	Cloud-based computing, ArcGIS Pro, Google Colab, ArcMap, QGIS, Google Earth Engine, ENVI