# Fuzhen Yin (尹福禎)

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## EDUCATION

**2024**    **PhD, Urban and Regional Planning, University at Buffalo, U.S.**
Committee: Lucie Laurian (chair), Andrew Crooks, Emmanuel Frimpong Boamah
Dissertation: Incorporating Social Media Data in Human Dynamics and Resilience Models: A Hybrid Space Urban Analytics Approach to the 2022 Blizzard and Covid Responses

**2020**    **Master, Spatial Data Science and Visualization, Centre for Advanced Spatial Analysis (CASA), University College of London, U.K.**
Advisor: Maarten Vanhoof, Duncan Smith
Thesis: Revealing the Spatial and Temporal Patterns of Calling Activities in France Using Mobile Phone Data

**2019**    **Master, Landscape and Territory Planning (Diplôme d'État de Paysagiste), National Superior School of Architecture and Landscape of Bordeaux, France**

**2017**    **BEng, Urban Planning, Tianjin University, Tianjin, China**

## EMPLOYMENT HISTORY

**2024-Present**    **Assistant Professor,** Department of Geography and Environmental Studies, University of Colorado Colorado Springs (UCCS)

**2020-2024**    **Teaching Assistant**, Department of Urban and Regional Planning, University at Buffalo (UB)

**2022**    **Research Assistant,** Food Systems Planning and Healthy Communities Lab, University at Buffalo (UB)

**2023**    **Research Assistant**, Just Institutions Lab, University at Buffalo (UB)

**2018**    **Urban Design Assistant**, Agence Florence Mercier Paysagiste, France

**2017**    **Urban Planning Assistant**, Tianjin Urban Planning and Design Institute, China

## PUBLICATIONS

- **Peer-reviewed Article**

*Published:*

1. Yin, L., **Yin, F.**, & Silverman, R. M. (2024). Rethinking demolition plans to fight neighborhood blight in shrinking cities: Applying agent-based policy simulations. *Cities*, 150, 105035.

2. **Yin, F.**, Crooks, A., & Yin, L. (2024). How information propagation in hybrid spaces affects decision-making: using ABM to simulate Covid-19 vaccine uptake. *International Journal of Geographical Information Science*, 1-27.

3. Frimpong Boamah, E., **Yin, F.**, Korosh, Z., Raja, S., Mui, Y., Bohm, M., DeHonney, A., Williams, R., & Ramos-Gerena, C. (2024). Mapping the invisible: Bridging and trusting networks in sustaining the urban food system. *Cities*, 146, 104750.

4. Wang, C., **Yin, F.**, Zhao, Y., & Yin, L. (2023). Making Transportation Systems in US Cities Smarter and More Inclusive: A Synthesis of Challenges and Evaluation of Strategies. *ISPRS International Journal of Geo-Information*, 12(2), 72.

5. **Yin, F.**, Crooks, A., & Yin, L. (2022). Information propagation on cyber, relational, and physical spaces about Covid-19 vaccine: Using social media and splatial framework. *Computers, Environment and Urban Systems*, 101887.

6. Yin, L., **Yin, F.**, & Silverman, R. M. (2022). Spatial clustering of property abandonment in shrinking cities: A case study of targeted demolition in Buffalo, NY's African American neighborhoods. *Urban Geography*, 1–20.

*In progress:*

7. **Yin, F.**, Crooks, A., & Laurian, L. (2024). The influence of Facebook interaction in mutual aid provision during Buffalo Blizzard. *Environment and Planning B: Urban Analytics and City Science* (planned submission by August 2024)

8. **Yin, F.**, Crooks, A., & Laurian, L. (2024). How online interaction and offline accessibility affect Covid-19 vaccines uptake in New York State? *Journal of Artificial Societies and Social Simulation* (planned submission by September 2024)

9. **Yin, F.**, Crooks, A., & Laurian, L. (2024). A systematic literature review of Agent-based modeling in urban planning. *Journal of Planning Literature* (submission by October 2024)

- **Proceedings & Community Report**

1. Jiang, N., Crooks, A.T., **Yin, F.** & Wang B. (2023), Geographically-Explicit Synthetic Populations for Agent-based Models: A Gallery of Applications, *Proceedings of the 2023 Conference of The Computational Social Science Society of the Americas*, Santa Fe, NM.

2. Frimpong Boamah, E., **Yin, F.**, Korosh, Z., Mitch, N. & Raja, S. (2022). Relationships matter in Western New York food future. *UB Food Lab and Just Institutions Lab*, Buffalo, NY

## CONFERENCE

- **Oral Presentation**

    1. **Yin, F.**, Jiang., N. and Crooks, A.T. (2024), Modeling Covid Vaccination uptake in New York State: An Agent-based Modeling Perspective, T*he Association of American Geographers (AAG) Annual Meeting*, 23rd –27th April, Honolulu, HI.

    2. **Yin, F.**, Crooks, A.T. and Yin, L. (2023), How Information Propagation in Physical, Relational and Cyber Spaces Affects Covid-19 Vaccine Uptake: Evidence from Rural County, *The Association of American Geographers (AAG) Annual Meeting*, 23rd –27th March, Denver, CO. (link)

    3. **Yin, F.**, Jiang N., Crooks, A.T. and Yin, L. (2022), Simulating Vaccination Decisions via Agent-Based Modeling: How Hybrid Spaces Affect Covid-19 Vaccine Uptake, *UB PIPP Modeling Workshop*, July 9th, Buffalo, NY.

    4. **Yin, F.**, Crooks, A.T. and Yin, L. (2022), Information propagation on cyber, relational, and physical spaces about covid-19 vaccine: Using social media and splatial framework, 2022 *Association of Collegiate Schools of Planning (ACSP) 62nd Annual Conference*, 3rd –5th November, Toronto, Canada. (link)

    5. **Yin, F.** and Yin, L. Making space: using AI to examine the interactions between the physical, relational and cyber spaces of human activities (2022), *Ontology Day*, National Centre for Ontological Research, Buffalo, NY, October 24, 2022

- **Poster Presentation**

    1. **Yin, F.**, Crooks, A.T. and Laurian, L. (2024), Mapping Resilience on Social Media: How Online Interactions are Translated Into Mutual Aid Behaviors During the 2022 Buffalo Blizzard, *Cartography and Geographic Information Society (CaGIS) + University Consortium for Geographic Information Science (UCGIS) Symposium 2024*, 3rd-6th June, Columbus, OH.

    2. **Yin, F.**, Crooks, A.T. and Yin, L. (2023), How Information Propagation in Hybrid Spaces Affects Decision-Making: Using ABM to Simulate Covid-19 Vaccine Uptake, *University Consortium for Geographic Information Science (UCGIS) 2023 Symposium*, 6-9th June, New Haven, CT.

    3. Yin, L., **Yin, F.**, & Silverman, R. M. (2023), Addressing Property Abandonment Crisis in Shrinking Cities: An Agent-based Policy Simulation, *The 30th International Conference on GeoInformatics (GeoInformatics 2023)*, 19th -21st July, London, U.K.

- **Invited Talk**

    1. **Yin, F.** (2024), Urban Informatics & Disaster Management: From Physical to Hybrid Spaces, *Computational Urban Science Webinar*, University of Pattimura, May 28, 2024, Online

## GRANTS (Funded Proposal Only)

- **Neighborhood impacts of recreational cannabis legalization: A spatial and sentimental analysis in physical and cyber spaces ($5,000) 2023-2024, The Baldy Center for Law and Social Policy, University at Buffalo**

Role: Contributor (Proposal conception and writing); Research assistant (funded)

Collaborators: Li Yin (PI), Robert Silverman, Kelly Patterson

## TEACHING EXPERIENCE

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| **Fall 2023**<br>**Spring 2024** | **Instructor and organizer**<br>GIS Map-making workshop using R |
| **Spring 2024** | **GIS Consultant**<br>URP 581: Planning Practicum |
| **Spring 2022,24** | **Co-Instructor**<br>END 360: Environmental Design Workshop: Graphic Communication |
| **Spring 2021** | **Teaching Assistant**<br>END 360: Environmental Design Workshop: Graphic Communication |
| **Fall 2021,22,23** | **Teaching Assistant**<br>END 350: Environmental Design Workshop: Methods of Design Inquiry |
| **Fall 2023** | **Teaching Assistant**<br>END 302: Sustainable Urban Environments |
| **Fall 2021,22** | **Teaching Assistant**<br>END 304: Transportation and Urban Life |
| **Fall 2020** | **Teaching Assistant**<br>END 120 Introduction to Urban Environment |

## AWARDS & FELLOWSHIPS

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| **2024** | **Student Poster Awards**, *University Consortium for Geographic Information Science (UCGIS)* |
| **2024** | **ICA Scholarship**, International Cartographic Association |
| **2024** | **Student Excellence Award**, Urban and Regional Planning, University at Buffalo |
| **2023** | **Best Paper Award**, *Conference of The Computational Social Science Society of the Americas* |
| **2023** | **2nd Place** Poster Competition, *University Consortium for Geographic Information Science (UCGIS)* |
| **2020-24** | **Presidential Fellowship**, University at Buffalo |
| **2019** | **French National Landscape Architect Diploma**, Ministry of Culture, France |
| **2019** | **Student Honor Project,** ENSAP Bx, France |
| **2017** | **Student Honor Graduation Urban Design Project**, Tianjin University, China |
| **2015** | **Study Abroad Scholarship for Student Excellence**, China Scholarship Council |
| **2014** | **Shanghai Pudong Development Bank Scholarship**, Tianjin University, China |
| **2013** | **Baosteel Scholarship**, Student Excellence, Tianjin University, China |

## REVIEW SERVICE

*Environment and Planning B: Urban Analytics and City Science*

*Journal of Planning Education and Research (JPER)*

*International Journal of Geographical Information Science (IJGIS)*

## RELATED PROFESSIONAL SKILLS

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| **Language:** | Chinese (native), English & French (professional), Russian (basic) |
| **Urban analytics:** | R, Python, GIS, NetLogo, Gephi, ArcGIS, JavaScript, SQL |
| **Design:** | Adobe Suite, AutoCAD, SketchUp |