

Junjun Yin, Ph.D.

Population Research Institute, Social Science Research Institute, The Pennsylvania State University, State College, PA, 16801, USA

A. PROFESSIONAL PREPARATION

Univ. of Illinois at Urbana-Champaign	Geographic Information Science	Postdoctoral	2016
Dublin Institute of Technology	Spatial Information Science	Ph.D.	2013
Univ. of Gävle	Geoinformatics	M.S.	2009
Univ. of Electronic Sci. & Tech. of China	Electronics & Engineering	B.S.	2006

B. APPOINTMENTS

Pennsylvania State University (2016–present)

Research Associate, the Computational and Spatial Analysis Core of the Population Research Institute, Social Science Research Institute

University of Illinois at Urbana-Champaign (2016)

Lecturer, Department of Geography and Geographic Information Science

University of Illinois at Urbana-Champaign (2014–2016)

Postdoctoral Research Associate, Department of Geography and Geographic Information Science; CyberGIS Center for Advanced Digital and Spatial Studies; National Center for Supercomputing Applications

C. SELECTED PUBLICATIONS

Selected Peer-reviewed journals

- **Yin, J.**, Soliman, A., Yin, D. and Wang, S. 2017. Delineate urban boundaries in Great Britain from the network of large scale Twitter user spatial interactions. *International Journal of Geographical Information Science*, pp. 1-21, <http://dx.doi.org/10.1080/13658816.2017.1282615>
- **Yin, J.**, Gao, Y., Du, Z. and Wang, S. 2016. Exploring Multi-Scale Spatiotemporal Twitter User Mobility Patterns with a Visual-Analytics Approach. *ISPRS International Journal of Geo-Information*, 5(10):187
- Jiang, B., Ma, D., **Yin, J.** and Sandberg, M. 2016. Spatial Distribution of Tweet Numbers and Densities in Cities. *Geographical Analysis*, DOI: 10.1111/gean.12096
- Jiang, B., **Yin, J.** and Liu, Q. 2015. Zipf's Law for All the Natural Cities around the World. *International Journal of Geographical Information Science*, 29(3), pp. 498-522
- Jiang, B. and **Yin, J.** 2014. Ht-Index to Quantify the Fractal or Scaling Structure of Geographic Features. *Annals of the Association of American Geographers*, pp. 1–12
- **Yin, J.** and Carswell, J.D. 2013. Spatial Search Techniques for Mobile 3D Queries in Sensor Web Environments. *ISPRS International Journal of Geo-Information*, 2(1): pp.135-154
- Carswell, J.D., Gardiner, K. and **Yin, J.** (2010). Mobile Visibility Querying for LBS. *Transactions in GIS*, 14(6): pp. 791-809, Wiley online library
- Jiang, B., **Yin, J.** and Zhao, S., 2009. Characterizing the human mobility pattern in a large street network. *Physical Review E*, 80(2), p.021136
- Jiang, B., Zhao, S. and **Yin, J.** 2008. Self-organized natural roads for predicting traffic flow: a sensitivity study. *Journal of statistical mechanics: Theory and experiment*, P07008, IOP Publishing

Selected Peer-reviewed lecture notes and conference papers

- **Yin, J.**, Gao, Y. and Wang, S. 2017. Urban Sensing from Volunteered Citizen Participation using Mobile Devices. In *Seeing Cities through Big Data: Research, Methods and Applications in Urban Informatics*, Springer
- Soliman, A., **Yin, J.**, Soltani, K., Padmanabhan, A., and Wang, S. 2015. Where Chicagoans tweet the most: Semantic analysis of preferential return locations of Twitter users, *1st International Workshop on Smart Cities and Urban Analytics 2015*, 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems
- **Yin, J.** and Carswell, J.D. (2012). Effects of Variations in 3D Spatial Search Techniques on Mobile Query Speed vs Accuracy. *Web and Wireless Geographical Information Systems*, Naples, Italy. (*Best paper award)

D. Ongoing Research Projects

PI. "A cloud computing enabled GIS platform for the integration and synthesis of multi-layer geospatial data sources in urban studies: Understanding urban dynamics from geospatial Big Data". Microsoft Azure Data Science Research Award, \$20,000. Project dates: 12/04/2016—12/03/2017.

Co-PI. "Ecological Migration in a Large-Scale Quasi-Experiment Design in China: Implications of Climate Change, Landscape Structure, Ecosystem Services and Government Intervention". IEEE Seed Grant Program, \$25,000. Project dates: 04/15/2017—06/30-2018

PI. "Mining Twitter User Demographics as a First-Step in Big Data for Population Research". XSEDE (Extreme Science and Engineering Discovery Environment) Startup computational resource allocation award, \$2,794.78 (50,000 SUs). Project dates: 03/27/2017—03/26-2018

E. Service to the Profession

Program committees

Session Chair for *Big Movement Data for Geospatial Analytics on Urban Interactions*, Symposium on Human Dynamics in Smart and Connected Communities, 2017 AAG Annual Meeting, Boston, Massachusetts, April 5 - April 9, 2017

Session Chair for *Understanding Urban Dynamics Based on Movement Big Data*, 2016 AAG Annual Meeting, San Francisco, California, March 29 - April 2, 2016

Program committee member for *International Conference on Location-based Social Media Data*, Athens, Georgia, USA, March 5-7, 2015

Reviewer for Journals

Reviewer for *International Journal of Geographical Information Science* (IJGIS) (2010, 2014, 2015, 2016, 2017); *Computers, Environment and Urban Systems* (CEUS) (2009, 2010, 2013, 2014, 2015, 2016); *Geographical Analysis* (2016, 2017); *Journal of Geographical Systems* (2016); *Demography* (2016); *Environment and Planning B: Planning and Design* (2016); *Science China* (2015); *PLOS One* (2013, 2015); *Cities* (2014); *ISPRS International Journal of Geo-Information* (2013, 2014, 2015); *Journal of Location Based Services* (2013)