FANGZHENG LYU

PhD Student · Geography and GIS

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Education	
University of Illinois at Urbana-Champaign PHD GEOGRAPHY AND ENVIRONMENTAL STUDIES • Advisor: Dr. Shaowen Wang	Champaign, IL 2018 - present
University of Illinois at Urbana-Champaign MS GEOGRAPHY • Advisor: Dr. Shaowen Wang	Champaign, IL 2018 - 2021
The University of Hong Kong BE COMPUTER ENGINEERING • Minors in statistics and math • Undergrad research advisor: Dr. Tak-Wah Lam	Hong Kong 2014 - 2018
Professional Experience	
 2018-2022 Graduate Research/Teaching Assistant, Dept. Geography and GIS, University of Illine 2017 Software Engineer Intern, L3 Bioinformatics, Hong Kong 2017 Undergraduate Research Assistant, Dept. Computer Science, The University of Hong 2016 Software Engineer Intern, Netease, Hangzhou 	
Publications	
Wang, C., Lyu, F. , et al. 2022. A deep trajectory clustering method based on sequence-to-sequent Transaction in GIS. DOI: 10.1111/tgis.12905	ence autoencoder model.
Lyu, F. , Xu, Z., Ma, X., Wang, S., Li, Z., Wang, S. (2021) A vector-based method for drainage network data, Computers and Geosciences, 2021, 104892, ISSN 0098-3004	∢analysis based on LiDAR
Lyu, F. , Kang, JY., Wang, S., Han, SY., Li Z., and Wang S. (2021) Multi-scale CyberGIS Analytics for I Patterns of COVID-19. In: Shaw SL., Sui D. (eds) Mapping COVID-19 in Space and Time. Human Springer, Cham	
Wang, S., Lyu, F. , Wang, S., Catlet, C., Padmanabhan, A., Soltani, K. (2021) Integrating CyberGIS a producible Streaming Analytics. Urban Informatics, ISBN 978-981-15-8983-6. Springer Sinap	
Kang, JY., Michels, A., Lyu, F. et al. (2020) Rapidly measuring spatial accessibility of COVID-19 hea study of Illinois, USA. Int J Health Geogr 19, 36	ılthcare resources: a case
Lyu, F. , Yin, D., et al. (2019) Reproducible Hydrological Modeling with CyberGIS-Jupyter: A Case ceedings of the Practice and Experience in Advanced Research Computing on Rise of the Mac	
Padmanabhan, A., Yin, D., Lyu, F. , Wang, S. (2019). Bridging Local Cyberinfrastructure and XSED Proceedings of the Practice and Experience in Advanced Research Computing on Rise of the	
Awards, Fellowships	
2022 Finalist, AAG-GISS student paper competition , Association of American Geograph	ers \$200
2019 Finalist, AAG Robert Raskin Student Competition , Association of American Geogra	aphers
2018 First Division Honor, The University of Hong Kong	

2017	Dean's Honor List, The University of Hong Kong	
2015	HKU Foundation Scholarship for outstanding student, The University of Hong Kong	\$11,557
2014	Soong Ching-ling Scholarship, Shanghai Soong Ching Ling Foundation	\$30,924
2013	First Prize at Zhejiang Physics Olympiad, Zhejiang Physical Society	
Presenta	tions	

- **Lyu, F.** 2022. Fine-Scale Prediction of Urban Heat Island Using Satellite Remote Sensing and Urban Sensor Network Data. 2022 AAG Annual Meeting. Virtual.
- **Lyu, F.** 2019. Vector-Based Drainage Direction Analysis for High-Resolution Digital Elevation Models. 2019 AAG Annual Meeting, Washington, D.C.
- Lyu, F. 2019. Reproducible Hydrological Modeling with CyberGIS-Jupyter: A Case Study on SUMMA. PEARC19, Chicago, IL.

Teaching Experience _____

Spring2022 **GEOG 407, Foundations of CyberGIS and Geospatial Data Science**, Teaching Assistant

Fall 2021 **GEOG 507, High Performance Geospatial Computing**, Instructor

UIUC

Outreach & Professional Development _____

PEER REVIEW

Transaction in GIS

The Egyptian Journal of Remote Sensing and Space Sciences

PROFESSIONAL MEMBERSHIPS

American Association of Geographers
University Consortium for Geographic Information Science