Yijun Lin

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EDUCATION

Ph.D. Computer Science University of Minnesota, Twin Cities	Aug. 2021 -
Ph.D. Computer Science University of Southern California	Aug. 2018 - May. 2021
M.S. Data Science University of Southern California	Aug. 2015 - May 2017
B.S. Information Securities Tongji University (Shanghai, China	Aug. 2011 - May 2015

PUBLICATIONS (SELECTIVE)

Lin, Y., Chiang, Y.-Y., Franklin, M., Eckel, S. P. and Ambite, J. L. Building Autocorrelation-Aware Representations for Fine-Scale Spatiotemporal Prediction. IEEE International Conference on Data Mining, 2020.

Karroum, K., **Lin, Y.**, Chiang, Y. Y., Ben Maissa, Y., El Haziti, M., Sokolov, A. and Delbarre, H. A review of air quality modeling. MAPAN, 35(2), 287-300, 2020

Chiang, Y.-Y., **Lin, Y.**, Franklin, M., Eckel, S. P., Ambite, J. L. and Ku, W.-S. Building Explainable Data Analytics for Location-Dependent Time-Series Data (Vision Paper). IEEE First International Conference on Cognitive Machine Intelligence, 2019.

Lin, Y., Mago, N., Gao, Y., Li, Y., Chiang, Y.-Y., Shahabi, C. and Ambite, J. L. Exploiting spatiotemporal patterns for accurate air quality forecasting using deep learning. Proceedings of the 26th ACM SIGSPATIAL international conference on advances in geographic information systems, 2018.

Nguyen, K., Yang, J., **Lin, Y.**, Lin, J., Chiang, Y.-Y. and Shahabi, C. Los Angeles Metro Bus Data Analysis Using GPS Trajectory and Schedule Data (Demo Paper). Proceedings of the 26th ACM SIGSPATIAL international conference on advances in geographic information systems. 2018.

Yu, X., Cheng, Y., **Lin, Y.**, Chiang, Y.-Y., Stripelis, D. and Ambite, J. L. MAPINS: An intra-city PM2.5 modeling web application using a scalable data management and analysis system integrating public multi-source data. In proceedings of the UCGIS/AutoCarto (pp. 132-134), 2018.

Lin, Y., Chiang, Y.-Y., Pan, F., Stripelis, D., Ambite, J. L., Eckel, S. P. and Habre, R. Mining Public Datasets for Modeling Intra-City PM2.5 Concentrations at a Fine Spatial Resolution. Proceedings of the 25th ACM SIGSPATIAL international conference on advances in geographic information systems, 2017.

AWARDS

DSI-ADC Fellowship, UMN, 2022

Student Travel Award, IEEE ICDM, 2020

Excellent Service Award, IEEE CIC, CogMI, IEEE TPS, 2019

Student Travel Award, IEEE TPS NSF, 2019

Student Travel Award, ACM SIGSPATIAL, 2018 - 2019

Expediation Hackathon in Los Angeles, Runner-up Winner, Los Angeles, 2017

Outstanding Graduate, Tongji University, 2016

Outstanding Students, Tongji University, 2014

Tongji University Scholarship, 2013-2014

WORK EXPERIENCE

Research Intern, mentor: John Krumm
Microsoft Corporation, May. 2020 - Aug. 2020

Data Scientist
Spatial Sciences Institute (SSI), USC, Jun. 2017 - Jul. 2018

Software Engineering Intern
Global Business Service (GBS)/AI Department of IBM (China, Shanghai) Company Ltd., Jul. 2014 - Sep. 2014

PROFESSION SERVICES

Teaching Assistant

2022 Fall, UMN Practice of Database Systems (undergraduate level)

2022 Spring, UMN Spatial AI (graduate level)

2019 - 2021, USC Foundations and Applications of Data Mining (graduate level)

Conference Peer-Review

2019 - 2022: ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (reviews: 9)

2017 - 2022: IEEE International Conference on Tools with Artificial Intelligence (reviews: 4)

2021: International Workshop on Methods, Models, and Resources for Geospatial Knowledge Graphs and GeoAI (reviews: 1)

2021: International Workshop on Health Intelligence (reviews: 1)

2020: International Conference on Artificial Intelligence in Medicine (reviews: 1)

Journal Peer-Review

GeoInformatica (reviews: 6)

Atmospheric Pollution Research (reviews: 2)

Environmental Technology & Innovation (reviews: 1)

Invited Lectures

Guest Lecturer, “Mining Public Online Data for Fine-Scale Air Quality Prediction”, USC SSCI680 Advanced Spatial Computing, 2019 Fall

Guest Lecturer, “Recommendation System and Spatial Data Visualization”, Soongsil University Visit, 2019 Summer

Guest Lecturer, “Map-Reduce and Introduction to Spark and Scala”, USC Foundations and Applications of Data Mining, 2018 Summer