

BANG AN

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EDUCATION

The University of Iowa , Ph.D. candidate in Business Analytics (Advisor: Patrick Fan)	2020-2024
Rutgers University, New Brunswick , Bachelor of Science, Dual majors in Computer Science Business Analytics & Information Technology	2016-2019

RESEARCH INTERESTS

Methods: machine learning, spatiotemporal data mining, interpretable machine learning, natural language processing
Topics: smart city, healthcare, event analysis, medical notes analysis

PUBLICATIONS & IN-PROGRESS

- Bang An**, X. Zhou, Y. Zhong, T. Yang. "SpatialRank: Urban Event Ranking with NDCG Optimization on Spatiotemporal Data". **Neural Information Processing Systems (NeurIPS) 2023**
- Bang An**, A. Vahedian, X. Zhou, W. Nick. Street, Y. Li. "HintNet: Hierarchical Knowledge Transfer Networks for Traffic Accident Forecasting on Heterogeneous Spatio-Temporal Data". **SIAM International Conference on Data Mining (SDM) 2022**
- W. Chen, Y. Xie, X. Jia, E. He, H. Bao, **Bang An**, X. Zhou "Referee-Meta-Learning for Fast Adaptation of Locational Fairness". under **Phase 2** review at **Association for the Advancement of Artificial Intelligence (AAAI) 2024**
- Bang An**, A. Vahedian, X. Zhou, W. Nick. Street, Y. Li. "LISA: Learning-Integrated Space Partitioning Framework for Traffic Accident Forecasting on Heterogeneous Spatiotemporal Data". **Targeting Knowledge Discovery and Data Mining (KDD) 2024**
- Bang An**, X. Huang, L. Tong, P. Fan "Forecasting and understanding Hospital-Acquired Pressure Injury via Learning from Medical Notes". **Targeting Production and Operations Management (POM)**
- Bang An**, X. Zhou, "SpaProTree: Interpretable Prototype Tree with Spatiotemporal Conceptual Encoding for Urban Event Understanding". **Targeting Knowledge Discovery and Data Mining (KDD) 2024**

AWARDS AND SCHOLARSHIPS

The University of Iowa:	
Iowa Graduate College Post-Comprehensive Research Fellowship (\$10,500)	Fall 2022
Iowa Graduate College Summer Fellowship (\$5,000)	Summer 2023
Department of Business Analytics Research Fellowship	Spring 2023, Spring 2022, Spring 2020
Department of Business Analytics Semester Fellowship	2020 - 2024

TEACHING

The University of Iowa:	
BAIS:3200 Database Management	Fall 2022
BAIS:2800 Fall 2021 Foundations of Business Analytics	Fall 2021
BAIS:3250 Fall 2020 Data Wrangling	Fall 2020

SKILLS

Programming	Python, R, Java, C, SQL, Spark
Computing	High Performance Computing (HPC)
Machine Learning Frameworks	Pytorch, Keras, TensorFlow

LANGUAGES

English (Fluent), Mandarin (Native)