

# Dr. Yanjie Fu

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## **RESEARCH INTERESTS**

My research is concerned with spatiotemporal and network data mining. I developed algorithms and tools to answer: (1) how data mining approaches alleviate information heterogeneity, dynamics, and unstructureness; and (2) what role modeling structures play in exploring the correlations among spatiotemporal network data. Specifically, users and systems exhibit spatiotemporal and networked behavioral patterns. However, the structures of these patterns are often buried under data. I aim to strategically reformulate the problem of modeling structure-buried data into a new machine learning task, and develop robust algorithms for the task. I also investigate how the developed algorithms can be applied for real world problems, including mobile, transportation, power, IoT, and education analytics.

## **EDUCATION**

**Ph.D. in IT**, Rutgers University, 2016.

**M.E.**, Computer Science, Chinese Academy of Sciences, 2011

**B.E.**, Computer Science, University of Science and Technology of China, 2008

## **PROFESSIONAL EMPLOYMENT EXPERIENCES**

**Assistant Professor** of Computer Science, University of Central Florida, 08/2019 - Now

**Assistant Professor** of Computer Science, University of Missouri-Rolla, 08/2016 - 07/2019

## **SUMMARY of MAJOR RESEARCH OUTCOMES**

- Published over 16 journal and 40 conference papers, and 4 U.S. invention patents. Published prolifically in top data mining journals and conference proceedings, such as IEEE TKDE (4), ACM TKDD (2), IEEE TMC (1), ACM TIST (4), ACM SIGKDD (13), AAAI (3), IJCAI (2), and IEEE ICDM (14).
- Google scholar citation history started from 2014; total citations: over 1000, with a h-index of 16 and a h10-index of 22.
- On-going research projects including spatiotemporal representation learning, automated data science, and spatiotemporal knowledge graph.
- Conducted algorithm and application research in several finished projects, including human mobility modeling, residential community and urban vibrancy analysis, in-App behavior analysis, mobile recommender systems.

## **SUMMARY of MAJOR TEACHING OUTCOMES**

- Taught two data mining courses including introduction to data mining (teaching ratings: 3.73/4), applied spatial and temporal data analysis (teaching ratings: 3.73/4, 3.93/4) for both undergraduate and graduate students. In addition, taught software engineering courses.
- Developed and taught an introductory data science course: introduction to data science (teaching ratings: 3.29/4).
- Serve as a committee member to create a data science certificate program and the curriculum of data science concentration in universities.

## **SUMMARY of MAJOR AWARDS**

- Received IEEE ICDM 2014 Best Student Paper Runner-up and ACM SIGKDD 2018 Best Student Paper Runner-Up Awards.
- Received University of Missouri Research Board Award, Microsoft Research Azure Research Award, NSF CRII (mini-career) Award. All of these awarded proposals are sole-PI. I also received a Co-PI award from Department of Education.