

# Jian Kang

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## EDUCATION

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- **University of Illinois at Urbana-Champaign** Urbana, IL  
Ph.D. in Computer Science Aug. 2019 - Present  
Advisor: Dr. Hanghang Tong
- **Arizona State University** Tempe, AZ  
Ph.D. in Computer Science Aug. 2017 - May. 2019  
Advisor: Dr. Hanghang Tong
- **University of Virginia** Charlottesville, VA  
Master of Computer Science Aug. 2015 - Dec. 2016
- **Beijing University of Posts and Telecommunications** Beijing, China  
Bachelor of Engineering Sep. 2010 - Jun. 2014

## RESEARCH INTERESTS

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- Data mining, graph mining
- Machine learning on graphs

## PUBLICATIONS

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### Journal Paper

- Meijia Wang, **Jian Kang**, Nan Cao, Yinglong Xia, Wei Fan, Hanghang Tong. *Graph Ranking Auditing: Problem Definition and Fast Solutions*. IEEE Transactions on Knowledge and Data Engineering, 2020.

### Conference Papers

- **Jian Kang**, Jingrui He, Ross Maciejewski, Hanghang Tong. *InFoRM: Individual Fairness on Graph Mining*. In Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2020.
- **Jian Kang**, Hanghang Tong. *N2N: Network Derivative Mining*. In Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM), 2019.
- **Jian Kang**, Meijia Wang, Nan Cao, Yinglong Xia, Wei Fan, Hanghang Tong. *AURORA: Auditing PageRank on Large Graphs*. In 2018 IEEE International Conference on Big Data (Big Data), 2018.
- **Jian Kang**, Scott Freitas, Haichao Yu, Yinglong Xia, Nan Cao, Hanghang Tong. *X-Rank: Explainable Ranking in Complex Multi-Layered Networks*. In Proceedings of the 27th ACM International Conference on Information and Knowledge Management (CIKM), 2018.
- Haichao Yu, **Jian Kang**, Yinglong Xia, Nan Cao, Hanghang Tong. *Visual Mining of Multi-Sourced Networks*. In Proceedings of the 5th China Visualization and Visual Analytics Conference (ChinaVis), 2018.

## EXPERIENCE

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- **University of Illinois at Urbana-Champaign** Urbana, IL  
*Teaching Assistant* Aug. 2020 - Dec. 2020
  - Lead Teaching Assistant for course logistics.
  - On supporting students in CS412: Introduction to Data Mining.

- On teaching recitation session of CS412: Introduction to Data Mining.
- Instructor: Dr. Hanghang Tong
- **University of Illinois at Urbana-Champaign** Urbana, IL  
*Research Assistant* Aug. 2019 - Present
  - On fairness, accountability and trustworthiness of graph mining.
  - Advisor: Dr. Hanghang Tong
- **Arizona State University** Tempe, AZ  
*Research Assistant* Aug. 2017 - May. 2019
  - On explainability and vulnerability of graph mining.
  - On AI-Trinity project (<https://ai-trinity.herokuapp.com/>).
  - Advisor: Dr. Hanghang Tong
- **Arizona State University** Tempe, AZ  
*Teaching Assistant* Aug. 2018 - Dec. 2018
  - On supporting students in CSE575: Statistical Machine Learning.
  - On teaching review sessions of CSE575: Statistical Machine Learning (graduate-level course).
  - Instructor: Dr. Hanghang Tong

## PROFESSIONAL SERVICES

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- **Program Committee:** AAAI (2021), ICLR(2021), ICML (2020), IJCAI (2021)
- **External Reviewer:** AAAI (2019), ACMMM (2018), CIKM (2018), DASFAA (2018, 2019), DSAA (2018), ICML (2019), IJCAI (2019), KDD (2018, 2019), NeurIPS (2020), PAKDD (2019), WSDM (2019, 2020), WWW (2018, 2020)
- **Journal Reviewer:** CACM, TKDD, TKDE

## AWARD & HONORS

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- KDD 2020 Student Travel Award, 2020
- CIKM 2019 Student Travel Award, 2019
- Big Data 2018 Student Travel Award, 2018

## MENTORED STUDENTS

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- Mr. Yuxin Xiao (B.S. in Computer Science, Statistics & Mathematics at UIUC, now M.S. in Machine Learning at CMU)
- Ms. Meijia Wang (M.S. in Statistics at ASU, now Ph.D. in Statistics at ASU)