YINGTONG DOU

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EDUCATION

University of Illinois at Chicago Chicago, IL.
- Ph.D. student in Computer Science Aug. 2017 – Present
- **Advisor: Prof. Philip S. Yu**
- Research interests: Spam Detection / Social Network Analysis / Graph mining

Beijing University of Posts and Telecommunications / Queen Mary University of London Beijing, China
- Bachelor's degree in Engineering with Beijing Excellent Graduate Award Sep. 2013 – June. 2017
- Thesis: Robust Influence Maximization Algorithm Design for Online Social Network

TECHNICAL SKILLS

Python (experienced), SQL (experienced), Apache Hive (experienced), PyTorch, Linux, TensorFlow, Matlab, C, Java

WORKING EXPERIENCE

Search and Recommendation Group, Noah's Ark Lab Shenzhen, China
Research Intern May. 2018 – Aug. 2018
- Investigated fraudsters working mechanism in mobile App download fraud
- Designed and implemented algorithms that successfully filter fraudsters in Huawei Mobile App Markets

Key Laboratory of Trustworthy Distributed Computing and Service, BUPT Beijing, China
Research Assistant Oct. 2015 – July. 2017
- Finished research works on recommender systems and influence maximization as a team leader
- Wrote two chapters as a member of the Chinses 973 project on Online Social Network Analysis

PUBLICATIONS

[C1] Yingtong Dou, Weijian Li, Zhirong Liu, Zhenhua Dong, Jiebo Luo, and Philip S. Yu "Uncovering Download Fraud Activities in Mobile App Markets." *ASONAM*, 2019. [arXiv:1907.03048]

[J2] Xiaolong Deng, Yinluan Yu, Danhua Guo, and **Yingtong Dou**. "Efficient CPS model based online opinion governance modeling and evaluation for emergency accidents." *GeoInformatica*, vol. 68, no. 2, p. 109, Apr. 2018. [doi: 10.1007/s10707-018-0319-4]

[J1] Xiaolong Deng, **Yingtong Dou**, Tiejun Lv, Nguyen QVH. "A Novel Centrality Cascading Based Edge Parameter Evaluation Method for Robust Influence Maximization." *IEEE Access*. 2017; 5:22119-22131. [doi:10.1109/access.2017.2764750]

WORKING PAPERS

Securing Graph Based Anomaly Detection Models
Elite Social Spammers and Their Dynamics

PROJECTS

Suspicious Behavior Modeling in Mobile App Markets June. 2018 – Present
- Investigate various kinds of fraudsters like bots, spammers and crowd workers in mobile app markets
- Aim to design robust and scalable graph-based anomaly detection models based on Tencent Mobile App Markets data

Securing Graphical Classification Models Feb. 2018 – Present
- Attack the state-of-the-art graphical classifiers with multiple approaches
- Design robust graphical classifiers against adversarial examples

Robust Influence Maximization Algorithm Design Oct. 2016 – May. 2017
- Proposed a centrality-based edge activation probability evaluation method in the independent cascade model
- Evaluate the robustness of various algorithms under various noises

HONOURS

Ranked 2/201 in the 6th China College Student Innovation, Originality and Entrepreneurship Challenge in Beijing 2016
Honorable Mention in 2015 COMAP's Mathematical Contest in Modeling 2015