

YINGTONG DOU

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EDUCATION

University of Illinois at Chicago

Chicago, IL.
Aug. 2017 – Present

- Ph.D. student in Computer Science
- **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
Sep. 2013 – June. 2017

- Bachelor's degree in Engineering with Beijing Excellent Graduate Award
- Thesis: Robust Influence Maximization Algorithm Design for Online Social Network

TECHNICAL SKILLS

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

WORKING EXPERIENCE

Search and Recommendation Group, Noah's Ark Lab

Shenzhen, China
May. 2018 – Aug. 2018

Research Intern

- Investigated fraudsters working mechanism in mobile App download fraud
- Designed and implemented algorithms that filter fraudsters in Huawei Mobile App Markets

Key Laboratory of Trustworthy Distributed Computing and Service, BUPT

Beijing, China
Oct. 2015 – July. 2017

Research Assistant

- Finished several research works on recommender systems and influence maximization as a team leader
- Wrote few chapters as a member of the Chinses 973 project on Online Social Network Analysis

PUBLICATIONS

[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](https://doi.org/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](https://doi.org/10.1109/access.2017.2764750)]

WORKING PAPERS

1. Securing Graph Based Anomaly Detection Models
2. Uncovering Download Fraud Activities in Mobile App Store (Submitted to ICWSM 2019)

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