

Yingtong Dou (Ph.D. Candidate)

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Education	Ph.D. University of Illinois at Chicago (UIC), Computer Science 2017 - <i>present</i> Advisor: Philip S. Yu Research Area: Graph Mining, Fraud Detection, Secure Machine Learning
	B.E. Beijing Univ. of Posts and Telecoms. (BUPT), IoT Engineering 2017 Graduated with <i>Beijing Excellent Graduate Award</i> Thesis: <i>Robust Influence Maximization Algorithm Design for OSNs</i>
Research Experience	Research Assistant BDSC Lab, UIC 2019 - <i>present</i> Advisor: Prof. Philip S. Yu Thesis Research: Robust Graph Learning for Misbehavior Detection
	Research Intern Snap Inc. Summer 2021 Mentor: Dr. Neil Shah Project: Incremental Learning with Graph Neural Networks
	Research Intern Noah's Ark Research Lab Summer 2018 Mentor: Dr. Zhenhua Dong Project: Download Fraud Detection in Mobile App Markets
	Research Assistant TDCS Lab, BUPT 2016 - 2017 Mentor: Dr. Xiaolong Deng Project: Social Influence Measurement and Social Recommender System
Preprints	[P2] L. Sun, Y. Dou , C. Yang, J. Wang, P. S. Yu, L. He and B. Li. “ Adversarial Attack and Defense on Graph Data: A Survey. ” <i>Under Review</i> , 2020. [arXiv:1812.10528]
	[P1] Y. Dou . “ A Review of Recent Advance in Online Spam Detection. ” <i>Technical Reports</i> , 2019. [doi:10.13140/RG.2.2.34813.00485]
Selected Publications	[C7] Y. Dou , K. Shu, C. Xia, P. S. Yu and L. Sun. “ User Preference-aware Fake News Detection. ” <i>ACM SIGIR</i> , 2021. [doi:10.1145/3404835.3462990]
	[C4] Y. Dou , Z. Liu, L. Sun, Y. Den, H. Peng, and P. S. Yu. “ Enhancing Graph Neural Network-based Fraud Detectors against Camouflaged Fraudsters. ” <i>ACM CIKM</i> , 2020. [doi:10.1145/3340531.3411903]
	[C3] Y. Dou , G. Ma, P. S. Yu, and S. Xie. “ Robust Spammer Detection by Nash Reinforcement Learning. ” <i>ACM SIGKDD</i> , 2020. [doi:10.1145/3394486.3403135]
	[C1] Y. Dou , W. Li, Z. Liu, Z. Dong, J. Luo, and P. S. Yu. “ Uncovering Download Fraud Activities in Mobile App Markets. ” <i>IEEE/ACM ASONAM</i> , 2019. [doi:10.1145/3341161.3345306]
Other Publications	[C9] C. Wang, Y. Dou , M. Chen, J. Chen, Z. Liu, and P. S. Yu. “ Deep Fraud Detection on Non-attributed Graph. ” <i>IEEE BigData</i> , 2021. [arXiv:2110.01171]
	[C8] J. Du, Y. Dou , C. Xia, L. Cui, J. Ma, and P. S. Yu. “ Cross-lingual COVID-19 Fake News Detection. ” <i>IEEE ICDM Workshop</i> , 2021.[arXiv:2110.06495]
	[J4] H. Peng, R. Zhang, Y. Dou , R. Yang, J. Zhang, P. S. Yu. “ Reinforced Neighborhood Selection Guided Multi-Relational Graph Neural Networks. ” <i>ACM</i>

TOIS, 2021. [arXiv:2104.07886]

[C6] L. Yang, Z. Liu, **Y. Dou**, J. Ma and P. S. Yu. “**ConsisRec: Enhancing GNN for Social Recommendation via Consistent Neighbor Aggregation.**” *ACM SIGIR*, 2021. [doi:10.1145/3404835.3463028]

[J3] J. Li, H. Peng, Y. Cao, **Y. Dou**, H. Zhang, P. S. Yu, L. He. “**Higher-Order Attribute-Enhancing Heterogeneous Graph Neural Networks.**” *IEEE Trans. on Knowledge and Data Engineering*, 2021. [doi:10.1109/TKDE.2021.3074654]

[C5] Y. Cao, H. Peng, J. Wu, **Y. Dou**, J. Li, and P. S. Yu. “**Knowledge-Preserving Incremental Social Event Detection via Heterogeneous GNNs.**” *The Web Conference*, 2021. [doi:10.1145/3442381.3449834]

[C2] Z. Liu, **Y. Dou**, P. S. Yu, Y. Den, and H. Peng. “**Alleviating the Inconsistency Problem of Applying Graph Neural Network to Fraud Detection.**” *ACM SIGIR*, 2020. [doi:10.1145/3397271.3401253]

[J2] X. Deng, Y. Yu, D. Guo and **Y. Dou**. “**Efficient CPS Model Based Online Opinion Governance Modeling and Evaluation for Emergency Accidents.**” *Springer, GeoInformatica*, 2018. [doi:10.1007/s10707-018-0319-4]

[J1] X. Deng, **Y. Dou**, T. Lv, N. QVH. “**A Novel Centrality Cascading Based Edge Parameter Evaluation Method for Robust Influence Maximization.**” *IEEE Access*, 2017. [doi:10.1109/access.2017.2764750]

Skills

- **Language:** Chinese (Proficient), English (Advanced), Spanish (Elementary)
- **Programming:** Python, C, C#, Java, SQL, MATLAB, Shell, PyTorch, TensorFlow

Professional Services

- **Conference Organizer:** WSDM’22 Whova Chair
- **Journal Reviewer:** ACM TKDD, IEEE TKDE, ACM TIST, ACM TOIS, IEEE TNNLS, Springer Infor. Proc. and Mgn., Springer SNAM
- **PC Member:** KDD’22, SDM’22, WSDM’22, IJCAI’21, ’22, ASONAM’21, AAI’21, TrueFact@KDD’20
- **External Reviewer:** AAI’22, KDD’21, WWW’21, WSDM’21, KDD’20, Big-Data’19, CIKM’19

Invited Talks

- Datafun Summit, Remote. [Slides PDF] October 2021
- F5 Research, Remote. [Slides PDF] May 2021
- Grab Inc., Remote March 2021
- AI Tech Review, Remote August 2020
- Tencent, Shenzhen July 2018

Teaching

- Teaching Assistant, CS341 Program Design and Implementation 21Spring
- Teaching Assistant, CS111 Program Design I 17Fall, 18Spring - 20Fall
- Teaching Assistant, CS151 Mathematics for Computing 18Fall - 19Spring

Honors and Awards

- Student Travel Awards: SIGIR’20, SIGKDD’20, CIKM’20