

# Yingtong Dou (Ph.D. Candidate)

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[Google Scholar](#)

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<b>Education</b>	<b>Ph.D.</b>	University of Illinois at Chicago, Computer Science Advisor: Philip S. Yu Research Area: Graph Mining, Fraud Detection, Secure Machine Learning	2017 - <i>present</i>
	<b>B.E.</b>	Beijing Univ. of Posts and Telecoms. (BUPT), IoT Engineering Graduated with <i>Beijing Excellent Graduate Award</i> Thesis: <i>Robust Influence Maximization Algorithm Design for OSNs</i>	2017
<b>Working Experience</b>	Research Intern	<b>Snap Inc.</b> Mentor: Dr. Neil Shah Project: Graph Neural Network and its Application	Summer 2021
	Research Intern	<b>Noah's Ark Research Lab</b> Mentor: Dr. Zhenhua Dong Project: Download Fraud Detection in Mobile App Markets	Summer 2018
	Research Assistant	<b>TDCS Lab, BUPT</b> Mentor: Dr. Xiaolong Deng Project: Social Influence Measurement and Social Recommender System	2016 - 2017
<b>Preprints</b>	[P3]	H. Peng, R. Zhang, <b>Y. Dou</b> , R. Yang, J. Zhang, P. S. Yu. “ <b>Reinforced Neighborhood Selection Guided Multi-Relational Graph Neural Networks.</b> ” <i>Under Review</i> , 2021. [arXiv:2104.07886]	
	[P2]	L. Sun, <b>Y. Dou</b> , C. Yang, J. Wang, P. S. Yu, L. He and B. Li. “ <b>Adversarial Attack and Defense on Graph Data: A Survey.</b> ” <i>Under Review</i> , 2020. [arXiv:1812.10528]	
	[P1]	<b>Y. Dou</b> . “ <b>A Review of Recent Advance in Online Spam Detection.</b> ” <i>Technical Reports</i> , 2019. [doi:10.13140/RG.2.2.34813.00485]	
<b>Publications</b>	[C7]	<b>Y. Dou</b> , K. Shu, C. Xia, P. S. Yu and L. Sun. “ <b>User Preference-aware Fake News Detection.</b> ” <i>ACM SIGIR</i> , 2021. [doi:10.1145/3404835.3462990]	
	[C6]	L. Yang, Z. Liu, <b>Y. Dou</b> , J. Ma and P. S. Yu. “ <b>ConsisRec: Enhancing GNN for Social Recommendation via Consistent Neighbor Aggregation.</b> ” <i>ACM SIGIR</i> , 2021. [doi:10.1145/3404835.3463028]	
	[J3]	J. Li, H. Peng, Y. Cao, <b>Y. Dou</b> , H. Zhang, P. S. Yu, L. He. “ <b>Higher-Order Attribute-Enhancing Heterogeneous Graph Neural Networks.</b> ” <i>IEEE Trans. on Knowledge and Data Engineering</i> , 2021. [doi:10.1109/TKDE.2021.3074654]	
	[C5]	Y. Cao, H. Peng, J. Wu, <b>Y. Dou</b> , J. Li, and P. S. Yu. “ <b>Knowledge-Preserving Incremental Social Event Detection via Heterogeneous GNNs.</b> ” <i>The Web Conference</i> , 2021. [arXiv:2101.08747]	
	[C4]	<b>Y. Dou</b> , Z. Liu, L. Sun, Y. Den, H. Peng, and P. S. Yu. “ <b>Enhancing Graph Neural Network-based Fraud Detectors against Camouflaged Fraudsters.</b> ” <i>ACM CIKM</i> , 2020. [doi:10.1145/3340531.3411903]	
	[C3]	<b>Y. Dou</b> , G. Ma, P. S. Yu, and S. Xie. “ <b>Robust Spammer Detection by Nash Reinforcement Learning.</b> ” <i>ACM SIGKDD</i> , 2020. [doi:10.1145/3394486.3403135]	

[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]

[C1] **Y. Dou**, W. Li, Z. Liu, Z. Dong, J. Luo, and P. S. Yu. “Uncovering Download Fraud Activities in Mobile App Markets.” *IEEE/ACM ASONAM*, 2019. [doi:10.1145/3341161.3345306]

[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]

## Professional Services

- Journal Reviewer: ACM TIST, IEEE TKDE, Information Processing and Management, Neurocomputing, ACM TOIS, Social Network Analysis and Mining
- PC Member: ASONAM’21, IJCAI’21, AAAI’21, TrueFact@KDD’20
- External Reviewer: KDD’21, WWW’21, WSDM’21, KDD’20, BigData’19, CIKM’19

## Invited Talks

- F5 Research, Remote May 2021
- Grab Inc., Remote March 2021
- Beihang University, Remote October 2020
- 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