

Yingtong Dou (Ph.D.)

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Employment	Staff Research Scientist	Visa Inc.	Dec. 2022 - Now
	Supervisor: Dr. Mahashweta Das Foster City, CA		
	<ul style="list-style-type: none">• Implementing the payment foundation model• Developing deep learning models for advanced authentication• Research: deep learning for tabular data, anomaly detection, graph mining		
	Research Assistant	University of Illinois Chicago	Jun. 2019 - May. 2022
	Advisor: Dr. Philip S. Yu Chicago, IL		
	<ul style="list-style-type: none">• Carried out research on graph-based fraud/anomaly/misinformation detection		
	Research Intern	Snap Inc.	Jun. 2021 - Oct. 2021
	Mentor: Dr. Neil Shah Remote		
	<ul style="list-style-type: none">• Project: probing the robustness of graph neural network under concept drift		
	Research Intern	Noah's Ark Lab	May. 2018 - Aug. 2018
	Mentor: Dr. Zhenhua Dong Shenzhen, China		
	<ul style="list-style-type: none">• Project: download fraud detection in mobile App stores		
Education	Ph.D.	University of Illinois Chicago, Computer Science	2017 - 2022
		Dissertation: <i>Robust Graph Learning for Misbehavior Detection</i> [PDF]	
	B.E.	Beijing Univ. of Posts and Telecoms., IoT Engineering	2013 - 2017
		Graduated with <i>Beijing Excellent Graduate Award</i>	
	B.E.	Queen Mary University of London, IoT Engineering	2013 - 2017
		Graduated with <i>Second Class Honours (Upper Division)</i>	
Selected Publications	As of 06/2024, #Citations=1,800; H-index=16. [Google Scholar]		
	K. Liu*, Y. Dou*, Y. Zhao*, et al. “BOND: Benchmarking Unsupervised Outlier Node Detection on Static Attributed Graphs.” <i>NeurIPS</i> , 2022. [doi:arXiv:2206.10071]		
	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]		
	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]		
	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]		
	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]		
	Professional Services	<ul style="list-style-type: none">• Conference Organizer: TheWebConf'22 Whova Chair, WSDM'22 Whova Chair• Session Chair: CIKM'22, KDD'22	

- **Journal Reviewer:** IEEE: TPAMI, TBD, TIFS, TKDE, TNNLS; ACM: TWEB, TKDD, TIST, TOIS; Springer: MTA, IPM, SNAM; Elsevier: KBS, OSM, IAM, PR; Frontiers in: Computer Science, Psychology
- **Program Committee Member:** KDD, NeurIPS, SIGIR, IJCAI, TheWebConf, AAAI, ACL, CIKM, WSDM, ICWSM, ICDM, ECML-PKDD, SDM, LoG, ASONAM

Talks and Blogs

- **GNN-based Fraud Detection: from Research to Application.**
Wells Fargo, Online. [Slides PDF] December 2022
- **GNN-based Graph Outlier Detection: A Brief Introduction.**
Blog Article, TigerGraph. [Blog Link] September 2022
- **GNN-based Anomaly Detection: from Research to Application.**
One Novartis Data Science Seminar, Online. [Slides PDF] August 2022
- **GNNs for Financial Fraud Detection: Practices and Challenges.**
KDD'22 MLF Workshop, Washington DC. [Slides PDF] August 2022
- **Mining Twitter for Social Event and Misinformation Detection.**
CS 579 OSN Analysis, IIT, Chicago. [Slides PDF] March 2022
- **Robust Graph Learning for Misbehavior Detection.**
Ph.D. Forum, ACM WSDM 2022, Online. [Slides PDF] February 2022
- **GNN-based Fraud Detection: from Research to Application.**
Datafun Summit, Online. [Slides PDF] October 2021
- **Robust Fraud Detection against Adversarial Fraudsters.**
Grab Inc. and F5 Research, Online. [Slides PDF] March & May 2021
- **Tackling Fake Downloads in Mobile App Markets.**
Blog Article, Medium. [Blog Link] July 2019
- **An Introduction to Graph-based Spam Review Detection.**
Tencent, Shenzhen. [Slides PDF] July 2018

Honors and Awards

- ACM CIKM 2022 Best Paper Honorable Mention October 2022
- Papers with Code Contributor Award March 2022
- ACM WSDM 2022 Outstanding Service Award February 2022
- Student Travel Awards: WSDM'22, ICDM'21, SIGIR'20, SIGKDD'20, CIKM'20