Kaiwen Dong

Research Scientist
AI research
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Education

University of Notre Dame, Notre Dame, IN, US   Aug 2021 – June 2025
Ph.D. in Computer Science and Engineering
Advisor: Prof. Nitesh V. Chawla (ACM & IEEE & AAAI & AAAS Fellow)

University of Illinois at Urbana-Champaign, Champaign, IL, US   Aug 2016 – May 2018
Master of Science in Statistics

Sichuan University, Chengdu, China   Aug 2012 – July 2016
Bachelor of Science in Mathematics

Research Interests and Applications

Graph Learning: enable machines to effectively and efficiently capture complex relationships within real-world data.
Deep Relational Learning: advance representation learning of tabular data, especially for relational databases.
AI applications: develop and deploy AI applications, including enterprise text-to-SQL, transaction categorization, and customer service monitoring.

Professional Experience

Senior AI Research Scientist   June 2025 – Present
Intuit Inc.
Research Scientist Intern   April 2024 – July 2024
Intuit Inc.
Data Scientist   June 2018 – July 2021
Aunalytics Inc.
Graduate Research Assistant   August 2022 – Present
University of Notre Dame
Graduate Teaching Assistant   August 2021 – December 2021
University of Notre Dame

Publications [Google Scholar]

Selected Peer-Reviewed Publications

[S6]   **Transaction Categorization in QuickBooks with Relational Deep Learning**
              Kaiwen Dong, Xiang Gao, Ayan Acharya, Maria Kissa, Mauricio Flores, Nitesh V. Chawla, Kamalika Das
              The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, 2025 **(ECML-PKDD'25)**

[S5]   **Pure Message Passing Can Estimate Common Neighbor for Link Prediction**
              Kaiwen Dong, Zhichun Guo, Nitesh V. Chawla
              The Conference on Neural Information Processing Systems, 2024 **(Neurips'24)**

[S4]   **FakeEdge: Alleviate Dataset Shift in Link Prediction**
              Kaiwen Dong, Yijun Tian, Zhichun Guo, Yang Yang, Nitesh V. Chawla
              The Learning on Graphs Conference, 2022 **(LoG'22)**

[S3]   **An Optimized NL2SQL System for Enterprise Data Mart**
              Kaiwen Dong, Kai Lu, Xin Xia, David Cieslak, Nitesh V. Chawla
              The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, 2021 **(ECML PKDD'21)**

[S2]   **You do not have to train Graph Neural Networks at all on text-attributed graphs**
              Kaiwen Dong, Zhichun Guo, Nitesh V. Chawla
              International Joint Conference on Neural Networks, 2025 **(IJCNN'25)**

[S1]	**Heterogeneous Graph Masked Autoencoders**
	Yijun Tian, **Kaiwen Dong**, Chunhui Zhang, Chuxu Zhang, Nitesh V. Chawla
	The AAAI Conference on Artificial Intelligence, 2023 **(AAAI'23)**

Preprints and Under Submissions

[P4]	**CORE: Data Augmentation for Link Prediction via Information Bottleneck**
	Kaiwen Dong, Zhichun Guo, Nitesh V. Chawla
	Under Submission **(TKDD)**
[P3]	**Universal Link Predictor By In-Context Learning on Graphs**
	Kaiwen Dong, Haitao Mao, Zhichun Guo, Nitesh V. Chawla
	Under Submission, 2025 **(TMLR)**
[P2]	**Node Duplication Improves Cold-start Link Prediction**
	Zhichun Guo, Tong Zhao, Yozen Liu, **Kaiwen Dong**, William Shiao, Mingxuan Ju, Neil Shah, Nitesh V. Chawla
	Under Submission, 2025 **(TMLR)**
[P1]	**MolX: Enhancing Large Language Models for Molecular Learning with A Multi-Modal Extension**
	Le Huy Khiem, Zhichun Guo, **Kaiwen Dong**, Xiaobao Huang, Bozhao Nan, Roshni Iyer, Xiangliang Zhang, Olaf Wiest, Wei Wang, Nitesh V. Chawla
	Under Submission, 2025 **(AAAI'25)**

Professional Services

Conference Reviewer

International Conference on Learning Representations (**ICLR**)	2025
International Conference on Machine Learning (**ICML**)	2025
Neural Information Processing Systems (**NeurIPS**)	2024, 2025
SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**)	2024, 2025
Conference on Information and Knowledge Management (**CIKM**)	2024
International Conference on Artificial Intelligence and Statistics (**AISTATS**)	2025

Journal Invited Reviewer

ACM Transactions on Knowledge Discovery from Data (**TKDD**)	2023, 2025
Transactions on Machine Learning Research (**TMLR**)	2025

Last updated on June. 17, 2025