

Yanbang Wang

Department of Computer Science
Cornell University
Bill & Melinda Gates Hall 344
Ithaca, NY 14850

+1 650-283-9267
ywangdr@cs.cornell.edu
<https://www.cs.cornell.edu/~ywangdr>
Google Scholar

EDUCATION

- 2025 - Present Visiting Ph.D. Student
Stanford University, Stanford, CA
- 2021 - Present Ph.D. in Computer Science
Cornell University, Ithaca, NY
Advisor: Jon Kleinberg
- 2019 - 2021 M.S. in Computer Science
Stanford University, Stanford, CA
Advisor: Jure Leskovec
- 2015 - 2019 B.S. in Computer Science, Mathematics
Hong Kong University of Science and Technology, Hong Kong, Hong Kong

RESEARCH INTEREST

Graph-language Models, Coding Agents for Text-to-SQL, LLM for Recommendation

PROFESSIONAL EXPERIENCE

- 2025 - Present Google Research, Student Researcher
with Sami Abu-El-Haija, Fatma Ozcan, Bryan Perrozi, and Vahab Mirrokni
Coding agents for text-to-SQL; Graph-language models for code analysis
- 2024 Meta, Research Scientist Intern
with Yanhong Wu
Optimal negative sampling in contrastive learning for embedding models
- 2023 Microsoft Research & Microsoft Security Research, Research Scientist Intern
with Jonathan Larson
Anomaly detection in networking systems
- 2018 MIT CSAIL, Visiting Student Researcher
with Una-May O'Reilly

PUBLICATIONS & PATENTS

(Citations: 1356, H-Index: 11)

PEER-REVIEWED CONFERENCE PUBLICATIONS

- [C.1] **Yanbang Wang**, Hejie Cui, Jon Kleinberg. [Microstructures and Accuracy of Graph Recall by Large Language Models](#). Advances in Neural Information Processing Systems (**NeurIPS**) 38, 2024.
- [C.2] **Yanbang Wang**, Jon Kleinberg. [From Graphs to Hypergraphs: Hypergraph Projection and its Reconstruction](#). Proceedings of the 12th International Conference on Learning Representations (**ICLR**), 2024.
- [C.3] **Yanbang Wang**, Karl Hallgren, Jonathan Larson. [A Graph-based Framework for Reducing False Positives in Authentication Alerts in Security Systems](#). Companion Proceedings of the International World Wide Web Conference (**WebConf**), 2024 .

- [C.4] **Yanbang Wang**, Jon Kleinberg. [On the Relationship Between Relevance and Conflict in Online Social Link Recommendations](#). Advances in Neural Information Processing Systems (**NeurIPS**) 37, 2023.
- [C.5] Haoteng Yin, Muhan Zhang, **Yanbang Wang**, Jianguo Wang, Pan Li. [Algorithm and system co-design for efficient subgraph-based graph representation learning](#). Proceedings of the VLDB Endowment (**VLDB**), 2022.
- [C.6] **Yanbang Wang**, Yen-Yu Chang, Yunyu Liu, Jure Leskovec, Pan Li. [Inductive Representation Learning in Temporal Networks via Causal Anonymous Walks](#). Proceedings of the 9th International Conference on Learning Representations (**ICLR**), 2021.
- [C.7] **Yanbang Wang***, Pan Li*, Chongyang Bai, Jure Leskovec. [TEDIC: Neural Modeling of Behavioral Patterns in Dynamic Social Interaction Networks](#). Proceedings of the International World Wide Web Conference (**WebConf**), 2021 .
- [C.8] Pan Li, **Yanbang Wang**, Hongwei Wang, Jure Leskovec. [Distance Encoding: Design Provably More Powerful Neural Networks for Graph Representation Learning](#). Advances in Neural Information Processing Systems (**NeurIPS**) 34, 2020.
- [C.9] **Yanbang Wang**, Nancy Law, Erik Hemberg, Una-May O'Reilly. [Using Detailed Access Trajectories for Learning Behavior Analysis](#). Proceedings of the 9th International Conference on Learning Analytics & Knowledge (**LAK**), 2019.
- [C.10] Mucong Ding, **Yanbang Wang**, Erik Hemberg, Una-May O'Reilly. [Transfer Learning using Representation Learning in Massive Open Online Courses](#). Proceedings of the 9th International Conference on Learning Analytics & Knowledge (**LAK**), 2019.

PEER-REVIEWED JOURNAL PUBLICATIONS

- [J.1] Haipeng Zeng, Xinhuan Shu, **Yanbang Wang**, Yong Wang, Liguozhang, Ting-Chuen Pong, Huamin Qu. [EmotionCues: Emotion-Oriented Visual Summarization of Classroom Videos](#). IEEE Transactions on Visualization and Computer Graphics (**TVCG**), 2020.

EXTENDED ABSTRACTS

- [W.1] **Yanbang Wang**, Hejie Cui, Jon Kleinberg. Network Recall by Large Language Models. International Conference on Computational Social Science (**IC2S2**), 2024. *Oral*.
- [W.2] **Yanbang Wang**, Jon Kleinberg. On the Relationship Between Relevance and Conflict in Online Social Link Recommendations. International Conference on Computational Social Science (**IC2S2**), 2024.
- [W.3] Haoteng Yin, **Yanbang Wang**, Pan Li. Revisiting Graph Neural Networks and Distance Encoding in a Practical View. Deep Learning on Graphs: Method and Applications (**AAAI-DLG**), 2021.
- [W.4] **Yanbang Wang**, Pan Li, Chongyang Bai, VS Subrahmanian, Jure Leskovec. Generic Representation Learning for Dynamic Social Interaction. 19th International Workshop on Mining and Learning with Graphs (**KDD-MLG**), 2020.
- [W.5] **Yanbang Wang**, Bijia Chen, Cameron Campbell, A Network-based Method for Estimating Potential for Career Advancement from Incomplete Data. Social Science and History Association Annual Meeting (**SSHA**), 2020.

PATENTS

- [P.1] Karl Hallgren, **Yanbang Wang**, Jonathan Larson. [Network Authentication Evaluation](#). United States Patent and Trademark Office, Patent Application No. US20250337760A1, 30 Oct. 2025.

ACADEMIC SERVICE

GENERAL CHAIR

- 2025 [Learning on Graphs Conference \(LoG 2025\)](#)
- 2026 [Learning on Graphs Conference \(LoG 2026\)](#)

ORGANIZER

- 2024 [Learning on Graphs Conference \(LoG 2024\)](#)
- 2024 [Workshop: the Second Learning on Graphs Conference New York Meetup \(LoG-NYC 2024\)](#)
- 2023 [Workshop: the First Learning on Graphs Conference New York Meetup \(LoG-NYC 2023\)](#)

PROGRAM COMMITTEES / REVIEWER

(ML: Machine Learning; DM: Data Mining; CSS: Computational Social Science)

- ML NeurIPS 2021- 2026, ICLR 2022 - 2025, ICML 2023 - 2026, LoG 2022 - 2026
- DM KDD 2023, SDM 2024, Journal of Big Data
- CSS IC2S2 2024

SELECTED HONORS AND AWARDS

- 2024 Microsoft Accelerating Foundation Models Research Grant
- 2024 ICLR Student Travel Award
- 2023 NeurIPS Student Travel Award
- 2021 Stanford Graduate with Distinction in Research Honor
- 2019 HKUST Academic Achievement Medal (highest undergraduate honor, top 1%)
- 2019 HKUST Outstanding Graduate

TALKS AND PRESENTATIONS

INVITED TALKS

- 2023 Microsoft Research
- 2021 Tsinghua University, AI-Time Forum
- 2021 Tianjin University, College of Intelligence and Computing
- 2020 UIUC, Data Mining Group (DMG)
- 2018 MIT CSAIL, Any-scale Learning For All Group (ALFA)

CONFERENCE ORAL PRESENTATIONS

- IC2S2'24 On the Relationship Between Relevance and Conflict in Online Social Link Recommendations
- IC2S2'24 Network Recall by Large Language Models
- SSHA'20 A Network-based Method for Estimating Potential for Career Advancement from Incomplete Data
- LAK'19 Transfer Learning using Representation Learning in Massive Online Open Courses
- LAK'19 Using Detailed Access Trajectories for Learning Behavior Analysis

MEDIA COVERAGE

- IEEE Spectrum [Are Your Students Bored? This AI Could Tell You](#)
- NHK TV News [Cutting-edge Technology Research in AI](#)