

Yanbang Wang

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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, Text-to-SQL (Foundation Model & Coding Agents), LLM for Recommendation

PROFESSIONAL EXPERIENCE

- 2025 - Present Google Research, Student Researcher
with Sami Abu-El-Haija, Fatma Ozcan, Bryan Perrozi, and Vahab Mirrokni
Lead GeminiSQL-2, the state-of-the-art model & coding agent for text-to-SQL
- 2024 Meta, Research Scientist Intern
with Yanhong Wu
Provably optimal negative sampling in contrastive learning for recommendation
- 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: 1431, H-Index: 11)

PEER-REVIEWED CONFERENCE PUBLICATIONS

- [C.1] **Yanbang Wang**, Jon Kleinberg, Yanhong Wu. Negative Sampling From the Ground Up: A Redesign for Recommendation. Proceedings of the 46th International Conference on Machine Learning (ICML), 2026.
- [C.2] **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.3] **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.4] **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.5] **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.6] 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.7] **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.8] **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.9] 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.10] **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.11] 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](#)