

# Yanbang Wang

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## 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 AREAS

LLM for Code Generation, Structure-Aware Reasoning and Retrieval, Recommendation and Personalization

## PROFESSIONAL EXPERIENCE

- 2025 - 2026        Google Research, Research Intern  
Lead **Gemini-SQL2**, the state-of-the-art coding LLM for text-to-SQL; Gemini-SQL2 is the current #1 on BIRD Leaderboard (Single Model track)  
(On social media: [Google Research Post 1](#), [Post 2](#), [Post 3](#); [Cloud Research Post 1](#))
- 2025                Meta, Research Scientist Intern  
Transformer architecture for late-stage ranking and content personalization
- 2024                Meta - Research Scientist Intern  
Provably optimal negative sampling in contrastive learning
- 2023                Microsoft Research, Research Scientist Intern
- 2018                MIT CSAIL, Visiting Student Researcher

## PUBLICATIONS & PATENTS

(Citations: 1439, H-Index: 11)

## PREPRINTS & MANUSCRIPTS

- [P.1]                **Yanbang Wang**, Qitian Wu, Sami Abu-el-Haija, Mohammadreza Pourreza, Michael Galkin, Hadi Hemmati, Hailong Li, Yeounoh Chung, Fatma Ozcan, Bryan Perozzi, Vahab Mirrokni. [Gemini-SQL2: Model, Harness, and System Design](#). *Under Review*.
- [P.2]                **Yanbang Wang**, Sami Abu-el-Haija, Mohammadreza Pourreza, Michael Galkin, Hadi Hemmati, Yeounoh Chung, Fatma Ozcan, Bryan Perozzi. Graph-Language Models as Text-to-SQL Verifier. *Under Review*.
- [P.3]                Sami Abu-el-Haija, Fatma Ozcan, **Yanbang Wang**, Brandon Mayer, Bryan Perozzi. Bidirectional Graph-SQL Reasoning: Generating and Validating Queries through Structural Representations. *Under Review*.

**PEER-REVIEWED CONFERENCE PUBLICATIONS**

- [C.1] **Yanbang Wang**, Jon Kleinberg, Yanhong Wu. [Negative Sampling From the Ground Up](#). Proceedings of the 43rd 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, 2025.
- [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**, 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] **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**), 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

- [PA.1] **Yanbang Wang**, Karl Hallgren, 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