JIAXI YANG

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AREA OF INTEREST

Trustworthy AI, LLMs, RAG, LLM Agent, Federated Learning, Data Valuation, Network Economics

EDUCATION

The Pennsylvania State University *2024 - now*
Ph.D. in Informatics   Supervised by Prof. *Dongwon Lee*

University of British Columbia *2022 - 2023*
Visiting Student   Supervised by Prof. *Xiaoxiao Li*

University of Electronic Science and Technology of China *2021 - 2024*
M.S. in Computer Science
GPA: 3.5/4.0   Supervised by Prof. *Sheng Cao*

Jiangxi University of Finance and Economics *2017 - 2021*
B.Eng. in Software Engineering
GPA: 91.5/100   ***Ranking First***

PUBLICATIONS

Boosting E-commerce Content Diversity: A Graph-based RAG Approach with User Reviews *2025*
Jiaxi Yang*, Yiling Jia*, Carl Yang, Yi Liang, Lu Lin
ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD, 2025)

A Survey of Federated Unlearning: A Taxonomy, Challenges and Future Directions *2025*
Yang Zhao*, **Jiaxi Yang*** (*Equal Contribution), Yiling Tao, Lixu Wang, Xiaoxiao Li, Dusit Niyato
IEEE Network

Unlearning for Federated Online Learning to Rank: A Reproducibility Study *2025*
Yiling Tao, Shuyi Wang, **Jiaxi Yang**, Guido Zuccon
ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR, 2025)

Portfolio-Based Incentive Mechanism Design for Cross-Device Federated Learning *2024*
Jiaxi Yang, Sheng Cao, Cuifang Zhao, Weina Niu, Li-Chuan Tsai
IEEE Wireless Communications and Networking Conference (WCNC, 2024)

GMValuator: Similarity-based Data Valuation for Generative Models *2024*
Jiaxi Yang*, Wenlong Deng*, Benlin Liu, Yangsibo Huang, James Zou, Xiaoxiao Li
The International Conference on Learning Representations (ICLR, 2025)

TranDRL: A Transformer-Driven Deep Reinforcement Learning Enabled Prescriptive Maintenance Framework *2024*
Yang Zhao, **Jiaxi Yang**, Wenbo Wang, Helin Yang, Dusit Niyato
IEEE Internet of Things Journal (Q1)

Multi-dimensional Data Quick Query for Blockchain-based Federated Learning *2023*
Jiaxi Yang, Sheng Cao, Peng Xiangli, Xiong Li, Xiaosong Zhang
International Conference on Wireless Algorithms, Systems, and Applications (WASA, 2022)

PREPRINTS

Steering to Say No: Configurable Refusal via Activation Steering in Vision Language Models *2026*
Jiaxi Yang*, Shicheng Liu*, Yuchen Yang, Dongwon Lee

Topological Structure Learning Should Be A Research Priority for LLM-Based Multi-Agent Systems *2025*
Jiaxi Yang*, Mengqi Zhang*, Yiqiao Jin*, Hao Chen, Qingsong Wen, Lu Lin, Yi He, Weijie Xu, James Evans, Jindong Wang
https://arxiv.org/pdf/2309.05063.pdf

A Survey on Trustworthiness in Foundation Models for Medical Image Analysis *2024*
Congzhen Shi*, Ryan Rezai*, **Jiaxi Yang*** (*Equal Contribution), Qi Dou, Xiaoxiao Li
https://arxiv.org/pdf/2407.15851

Federated Learning Incentive Mechanism under Buyers' Auction Market *2023*
Jiaxi Yang*, Zihao Guo*, Sheng Cao, Cuifang Zhao, Li-Chuan Tsai
https://arxiv.org/pdf/2309.05063.pdf

PATENTS

Insurance Compensation Apparatus and Method based on Hybrid Smart Contracts *Granted*
China National Intellectual Property Administration (ZL202110835114.8)

An Incentive Mechanism Method for Decision-Making *Granted*
China National Intellectual Property Administration (ZL202110835181.X)

PRESENTATIONS & TALKS

Multi-dimensional Data Quick Query for Blockchain-based Federated Learning *2022*
International Conference on Wireless Algorithms, Systems, and Applications (WASA, 2022)

Data Valuation for Generative Model (Invited Talk) *2023*
Annual Symposium of Blockchain Storage and Trade Engineering Laboratory of Sichuan Province

AWARDS & HONORS

ICLR Student Travel Grant, ICLR	*2025*
The First Prize Scholarship from UESTC	*2023*
The Third Prize Scholarship from UESTC	*2022*
The First Prize Scholarship from UESTC	*2021*
China National Scholarship from Ministry of Education of China (Top 0.2% Nationwide)	*2020*
Outstanding Graduate from JXUFE	*2021*
Enterprise Scholarship from Bank of Jiujiang	*2019*

REVIEWER

ICLR, ACL, EMNLP, TKDE, TNNLS, ToN, CVPR, TDSC, ECCV, ICML