

EDUCATION

- Penn State University** State College, PA
Ph.D in Informatics 08/2024 - 06/2028 (Expected)
GPA: 3.9/4.0.
- Xidian University** Xi'an, China
B.Eng in Computer Science and Engineering 09/2020 - 06/2024
GPA: 3.9/4.0; Major score: 92.0/100; Rank: 1/134

PUBLICATIONS

(* indicates equal contribution)

- Jiale Liu**, Yifan Zeng, Shaokun Zhang, Chi Zhang, Malte Højmark-Bertelsen, Marie Normann Gadeberg, Huazheng Wang, Qingyun Wu. Divide, Optimize, Merge: Fine-Grained LLM Agent Optimization at Scale. **EMNLP Findings**, 2025
- Chelsi Jain, Yiran Wu, Yifan Zeng, **Jiale Liu**, Zhenwen Shao, Qingyun Wu, Huazheng Wang. SimpleDoc: Multi-Modal Document Understanding with Dual-Cue Page Retrieval and Iterative Refinement. **EMNLP**, 2025
- Linxin Song^{*}, **Jiale Liu**^{*}, Jieyu Zhang, Shaokun Zhang, Ao Luo, Shijian Wang, Qingyun Wu, Chi Wang. Adaptive In-conversation Team Building for Language Model Agents. Conference on Language Modeling (**COLM**) workshop on AI Agents. [Now integrated into AG2 \[Blog\]](#)
- Shaokun Zhang, Ming Yin, Jieyu Zhang, **Jiale Liu**, et al. Which agent causes task failures and when? on automated failure attribution of llm multi-agent systems. International Conference on Machine Learning (**ICML Spotlight**), 2025
- Xiaobo Xia, **Jiale Liu**, Shaokun Zhang, Qingyun Wu, Tongliang Liu. Refined Coreset Selection: Towards Minimal Coreset Size under Model Performance Constraints. International Conference on Machine Learning (**ICML Spotlight**), 2024
- Shaokun Zhang, Jieyu Zhang, **Jiale Liu**, Linxin Song, Chi Wang, Ranjay Krishna, Qingyun Wu. Offline Training of Language Model Agents with Functions as Learnable Weights. International Conference on Machine Learning (**ICML**), 2024
- Qingyun Wu, Gagan Bansal, Jieyu Zhang, Yiran Wu, Beibin Li, Erkang Zhu, Li Jiang, Xiaoyun Zhang, Shaokun Zhang, **Jiale Liu**, Ahmed Hassan Awadallah, Ryen W White, Doug Burger, Chi Wang. Autogen: Enabling next-gen llm applications via multi-agent conversation framework. **ICLR** workshop on LLMagents (**Best paper award**). Conference on Language Modeling (**COLM**), 2024
- Shaokun Zhang, Xiaobo Xia, Zhaoqing Wang, Ling-Hao Chen, **Jiale Liu**, Qingyun Wu, Tongliang Liu. IDEAL: Influence-Driven Selective Annotations Empower In-Context Learners in Large Language Models. International Conference on Learning Representations (**ICLR**), 2024.
- Xiaobo Xia, **Jiale Liu**, Jun Yu, Xu Shen, Bo Han, Tongliang Liu. Moderate Coreset: A Universal Method of Data Selection for Real-world Data Analysis. International Conference on Learning Representations (**ICLR**), 2023.
- Zhenxin Lei^{*}, Wenjing Zhu^{*}, **Jiale Liu**^{*}, Cong Hua, Johann Li, Syed Afaq Ali Shah, Liang Zhang, Mohammed Bennamoun, Cuiping Mao. RLAD: A Reliable Hippo-guided Multi-task Model for Alzheimer's Disease Diagnosis. IEEE Journal of Biomedical and Health Informatics (**J-BHI**)
- Xudong Guo, Kaixuan Huang, **Jiale Liu**, Wenhui Fan, Natalia Vélez, Qingyun Wu, Huazheng Wang, Thomas L Griffiths, Mengdi Wang. Embodied llm agents learn to cooperate in organized teams. NeurIPS workshop on Language Gamification, 2024.

PREPRINTS

- Xiaobo Xia, Xiaofeng Liu, **Jiale Liu**, Kuai Fang, Lu Lu, Samet Oymak, William S Currie, Tongliang Liu. Identifying Trustworthiness Challenges in Deep Learning Models for Continental-Scale Water Quality Prediction

EXPERIENCE

<ul style="list-style-type: none">Adobe Research Research Scientist Intern. Mentor: Victor S. Bursztyn, Saayan Mitra Topic: Multi-agent intelligence for creative support.	San Jose, CA 05/2025 - 08/2025
<ul style="list-style-type: none">Research Assistant at Penn State Advisor: Qingyun Wu Topic: Agentic framework AutoGen, AG2; Black-box optimization library FLAML	Remote 05/2023 - 08/2024
<ul style="list-style-type: none">Research Assistant at University of Sydney Advisor: Tongliang Liu Topic: Data-efficient Machine Learning; Coreset selection	Remote 06/2022 - 06/2023

HONORS AND AWARDS

<ul style="list-style-type: none">OpenAI Reseacher Access Grant	06/2024
<ul style="list-style-type: none">Chinese National Scholarship, Ministry of Education of P.R. China	12/2021
<ul style="list-style-type: none">First Prize Scholarship, Xidian University	12/2022
<ul style="list-style-type: none">Finalist Winner (First prize), International Mathematical Contest in Modeling	04/2022
<ul style="list-style-type: none">First Prize in Jiangsu Province, Chinese Physics Olympiad (Rank 66)	10/2019

SERVICE

<ul style="list-style-type: none">Reviewer for ICML'24 25, ICLR'25 26, NIPS'24 25, CVPR'24, AAAI'26, ARR, ACML'24, AJCAI'24 25, TIST, IJCNN, TMLR, etc.	
<ul style="list-style-type: none">Co-creator and maintainer of open source project AutoGen (50k stars), AG2 (3.7k stars). Maintainer of FLAML (4.2k stars).	