Jiale Liu

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Google Scholar
Github

EDUCATION

- **Penn State University** — State College, PA
  Ph.D in Informatics — 08/2024 - 06/2028 (Expected)
- **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 & MANUSCRIPTS

(* indicates equal contribution)

- 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. ArXiv preprint.
  Now integrated into AG2 [Blog]

- 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.

EXPERIENCE

- **Research Assistant at Penn State** — Remote
  Advisor: Qingyun Wu — 05/2023 - 08/2024
  Topic: Agentic framework AutoGen, AG2; Black-box optimization library FLAML
- **Research Assistant at University of Sydney** — Remote
  Advisor: Tongliang Liu — 06/2022 - 06/2023
  Topic: Data-efficient Machine Learning; Coreset selection

HONORS AND AWARDS

- OpenAI Reseacher Access Grant — 06/2024
- Baoyan Duan Science and Education Innovation Scholarship (Awarded by CAS fellow to 5 undergrad) — 12/2023
- **Chinese National Scholarship**, Ministry of Education of P.R. China — 12/2021
- First Prize Scholarship, Xidian University — 12/2022
- Finalist Winner (First prize), International Mathematical Contest in Modeling — 04/2022
- First Prize in Jiangsu Province, Chinese Physics Olympiad (Rank 66) — 10/2019

SERVICE

- Reviewer for ICML'24 25, ICLR'25, NIPS'24, CVPR'24, ACML'24, AJCAI'24, TIST, etc.
- Co-creator and maintainer of open source project **AutoGen** (37.8k stars), **AG2** (1.5k stars). Maintainer of FLAML (3.7k stars).