Xiaoqiang Lin

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Research Interest

- Collaborative machine learning (e.g., federated learning, incentive mechanism).
- Data valuation (e.g., data pricing, data subset selection, data debugging).
- Gaussian process and its applications (e.g., zeroth-order optimization, Bayesian optimization).

Education

2021 –	**Ph.D. in Computer Science.** National University of Singapore. Advisors: Prof. See-Kiong Ng and Prof. Bryan Low. GPA: 4.83/5.
2016 – 2020	**Bachelor of Science in Statistics (Data Science Track).** Fudan University, Shanghai, China. Advisor: Prof. Zhongyu Wei. Thesis title: Graph neural networks-based representation learning of legislator and legislation for roll call prediction. GPA: 3.69/4.

Research Publications

- **Xiaoqiang Lin***, Xinyi Xu*, See-Kiong Ng, Chuan Sheng Foo, and Bryan Kian Hsiang Low. "Fair yet Asymptotically Equal Collaborative Learning". In: *Proceedings of the 40th International Conference on Machine Learning (ICML23)*, Hawaii, Jul 23-29, 2023. [Acceptance rate: 28%, co-first author].

- Yuqiao Yang*, **Xiaoqiang Lin***, Geng Lin, Zhongyu Wei, Zengfeng Huang. "Joint Representation Learning of Legislator and Legislation for Roll Call Prediction". In: *Proceedings of the 29th International Joint Conference on Artificial Intelligence (IJCAI 2020)*, Yokohama, Japan, Jan 7-15, 2020. [Acceptance rate: 12.6%, co-first author].

Work Experience

Jul 2020 – Aug 2021	**Machine Learning Engineer.** Ant Group. Utilize user data in Alipay to do fraud detection for insurance based on a recommendation system approach. This system profits **190 million CN¥** per year. Submit a paper to ICDM 2021 based on personalized recommendations for fraud detection.

Work Experience (continued)

Jul 2018 – Oct 2018   **Data Science Intern.**
Trip.com Group.
Develop recommendation models to recommend the personalized product (e.g., destinations/hotels/tickets) for different users in the Trip.com mobile app.

Honors and Awards

2020   Outstanding Graduates of Fudan University.

2017, 2018, 2019   National Scholarship of Encouragement and Support.

Excellent Student Scholarship of Fudan University.

2016   3rd Place in National Mathematics Competition.

Professional Service

Conference Reviewer for ICML'21.