1001 Sherbrooke St. W
Montréal, Canada
li.jiang3@mail.mcgill.ca
louieworth.github.io
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Li Jiang

Education

2023– **Desautels Faculty of Management, McGill University**, *Montréal, Canada*
Ph.D. in Operation Management
Advisors: Prof. Yichuan Ding and Xue Liu

2020–2023 **Tsinghua University**, *Beijing, China*
M.S in Management Science and Engineering
Thesis: Offline Reinforcement Learning with In-Sample Paradigm
Advisors: Prof. Xianyuan Zhan and Prof. Wai Kin (Victor) Chan

2014–2018 **Southwest University of Sci. & Tech.**, *Sichuan, China*
B.E in Civil Engineering

Research Experiences

2022.8–2023.1 **CMU**, *Pittsburgh*, Visiting Student
Worked on safety in offline reinforcement learning with Prof. Ding Zhao.

2022.6-2022.8 **Stanford University**, *Palo Alto*, Student Research Fellow
Worked on AI safety and alignment.

2021.6-2022.6 **Tsinghua University**, *Beijing*, Research Intern
Worked on offline reinforcement learning and 5G MMIMO optimization with Prof. Xianyuan Zhan.

2021.1-2022.4 **Microsoft Research Asia**, *Beijing*, Research Intern
Worked on reinforcement learning for the molecular generation with Prof. Jiang Bian.

Publications and Pre-Prints

Conference Publications (* indicates Equal Contribution)

1. **Offline RL with No OOD Actions: Offline RL with Implicit Value Regularization** [Paper]
H. Xu, **L. Jiang**, J. Li, Z. Yang, Z. Wang, V.W.K Chan, X. Zhan
*International Conference on Learning Representations (ICLR), 2023 (**Notable Top 5%**). (Acceptance rate: 5.0%)*
2. **A Policy-Guided Imitation Approach for Offline Reinforcement Learning** [Paper]
H. Xu*, **L. Jiang***, J. Li, X. Zhan
*Neural Information Processing Systems (NeurIPS), 2022 (**Oral < 2%**).*
3. **An Efficient Multi-Agent Optimization Approach for Coordinated Massive MIMO Beamforming**
L. Jiang, X. Wang, A. Yang, X. Wang, X. Jin, Y. Ouyang and X. Zhan
IEEE International Conference on Communications (ICC), 2023.

4. **A Deep Learning Framework for Traffic Data Imputation Considering Spatiotemporal Dependencies** [Paper]
L. Jiang, T. Zhang, Q. Zuo, C. Tian, V.W.K Chan
*IEEE 7th International Conference on Intelligent Transportation Engineering (ICITE), 2022 (**Oral**).*

Journal Publications

5. **Curriculum Goal-conditioned Imitation for Offline Reinforcement Learning** [Paper]
L. Jiang*, X. Feng*, X. Yu, H. Xu, X. Sun, X. Zhan, V.W.K Chan
IEEE Transactions on Games (ToG), 2022.

Pre-Prints

6. **Offline Reinforcement Learning with Imbalanced Dataset** [Paper]
L. Jiang, S. Cheng, J. Qiu, H. Xu, V.W.K Chan, D. Zhao
Data-centric Machine Learning Research Workshop, ICML 2023.

7. **MoReDrop: Dropout without Dropping**
L. Jiang*, D. Li*, Y. Ding, V.W.K Chan
Under review at Neural Information Processing Systems (NeurIPS), 2024.

8. **Hummer: Towards Limited Competitive Preference Dataset**
L. Jiang*, Y. Wu*, J. Xiong, J. Ruan, Y. Ding, Q. Guo, Z. Wen, J. Zhou, X. Deng [ArXiv]
Under review at Conference on Language Models (COLM), 2024 (top 20% in all submissions).

Awards and Fellowships

2023 Shenzhen Universiade International Scholarship Foundation (CAD $11,000). [Detail]
2023 Excellent Graduate Student at Tsinghua University (2%).
2022 Stanford Summer Research Fellowship (CAD $10,169). [Detail]
2022 Tsinghua University Second-class Scholarship (CAD $2,000, 5%).
2018 Scholarship of China Scholarship Council (CAD $3,000, among 30 recipients in China.)

Invited Talks and Presentations

Feb. 2023 **Offline RL with Implicit Value Regularization**, *CMU Safe AI Lab , Host: Prof. Ding Zhao.*
Nov. 2022 **A Policy-Guided Imitation Approach for Offline RL**, *The 4th TBSI Workshop on Learning Theory (TBSIWOLT'22), hosted by Prof. Yang Li.*
Aug. 2022 **A Policy-Guided Imitation Approach for Offline RL**, *RL China.*

Professional Service

Teaching Assistant

2023 Fall MGCR 372, Operation Management
2024 Fall MGCR 372, Operation Management

Conference and Journal Reviewing

Reviewer for ICLR (2024), NeurIPS (2022-2023), ICML (2023)

(Latest updated on June 16, 2024)