Xueguang Lyu

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- 2020-now **Northeastern University**, *PhD Candidate in Computer Science*, Boston, MA. Research in **Multi-Agent Reinforcement Learning**, GPA: 3.8
- 2016–2018 **Northeastern University**, *Master of Science in Computer Science*, Boston, MA. Concentrated on **Artificial Intelligence**, GPA: 3.8
- 2012–2016 **University of California, Irvine**, *Bachelor of Science in Informatics*, Irvine, CA. Concentrated on **Computer Human Interaction**, GPA: 3.7

Honors and Rewards

- 2020 **Graduate Fellowship**, Northeastern University.
- 2021 Best Paper Nominee, International Conference on Autonomous Agents and Multiagent Systems.
- 2021 Best Paper Nominee, International Symposium on Multi-Robot and Multi-Agent Systems.
- 2022 **Spotlight**, The Multi-disciplinary Conference on Reinforcement Learning and Decision Making.

Journal Publication

2023 Journal of Artificial Intelligence Research, Xueguang Lyu, Andrea Baisero, Brett Daley, Yuchen Xiao, Christopher Amato.
On Centralized Critics in Multi-Agent Reinforcement Learning

Conference Publications

- AAAI **2022**, *Xueguang Lyu*, *Andrea Baisero*, *Yuchen Xiao*, *Christopher Amato*.

 A Deeper Understanding of State-Based Critics in Multi-Agent Reinforcement Learning
- AAMAS **2021**, *Xueguang Lyu*, *Yuchen Xiao*, *Brett Daley*, *Christopher Amato*.

 Contrasting Centralized and Decentralized Critics in Multi-Agent Reinforcement Learning
 - MRS **2021**, Yuchen Xiao, **Xueguang Lyu**, Christopher Amato.

 Local Advantage Actor-Critic for Robust Multi-Agent Deep Reinforcement Learning
- AAMAS **2020**, *Xueguang Lyu*, *Christopher Amato*.

 Likelihood Quantile Networks for Coordinating Multi-Agent Reinforcement Learning

Patent

2020 **US Patent**, *Titus Woo, Wei Ting Kuo, Xueguang Lyu, Venkatesh Komma*. System and method for generating emoji mashups with machine learning

Talks and Presentations

- 2022 **RLDM**, On Trade-offs of Centralized Critics in Multi-Agent Reinforcement Learning. Brown University, Providence, RI
- 2022 **Invited Talk at CyLab**, *Policy Gradient Methods in Multi-Agent Reinforcement Learning*. Carnegie Mellon University, Pittsburgh, PA
- 2024 **Multi-Agent Learning Seminar**, *Understanding Centralized Critics*. Virtual

Peer-Reviewing Services

- 2021 Conference Reviewer, AAMAS-2021.
- 2021 Conference Reviewer, NeurIPS 2021.
- 2022 Conference Reviewer, AAAI 2022.
- 2022 Conference Reviewer, ICML 2022.
- 2022 Conference Reviewer, NeurlPS 2022.
- 2023 Conference Reviewer, ICRA 2023.
- 2023 Conference Reviewer, AAMAS 2023.
- 2023 Journal Reviewer, IEEE Robotics and Automation Letters (RA-L).
- 2023 Conference Reviewer, ICML 2023.
- 2023 Conference Reviewer, NeurIPS 2023.
- 2023 **Journal Reviewer**, Journal of Machine Learning Research (JMLR).
- 2024 Conference Reviewer, ICLR 2024.
- 2024 Conference Reviewer, AAMAS 2024.
- 2024 Journal Reviewer, Autonomous Agents and Multi-Agent Systems, Springer Nature.
- 2024 Conference Reviewer, ICML 2024.
- 2024 Conference Reviewer, RLC 2024.
- 2024 Conference Reviewer, NeurIPS 2024.
- 2025 Conference Reviewer, AAMAS 2025.
- 2025 Conference Reviewer, ICLR 2025.
- 2025 Conference Reviewer, ICML 2025.
- 2025 Journal Reviewer, Journal of Machine Learning Research (JMLR).

Professional Experience

- Jan June Applied Scientist Co-op, Amazon Robotics, Boston, MA.
 - 2023 Simulation-Free On-Robot Reinforcement Learning for Robotic Manipulation
- May Dec **Software Engineer**, *PayPal*, San Jose CA.
 - 2019 Financial Transaction framework, recommendation systems, Bayesian methods for black-box analysis
- May Dec **Software Engineer Co-op**, *PayPal*, San Jose CA.
 - 2017 Developed a scalable Recommendation Engine framework Filed 2 U.S. patents: black-box predictions & natural language translation models

Teaching Experience

- Dec 2017 Teaching Assistant, Northeastern University, Boston, MA.
- June 2018 For class Advance Algorithm

Hold recitations and office hours.

- Jan Mar **Teaching Assistant**, Northeastern University, Boston, MA.
 - 2022 For class Advanced Reinforcement Learning.

Derive homeworks and solutions. Hold office hours and other activities.

Membership of Scientific Organizations

- Since 2023 Member, Multi-Agent Learning Seminar.
- Since 2023 Member, Association for the Advancement of Artificial Intelligence (AAAI).
- Since 2024 **Program Committee (PC) Member**, International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS).