Yingchen Xu

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Education

University College London
PHD COMPUTER SCIENCE
London, UK
Jan 2022 - present
- Advisors: Dr. Edward Grefenstette, Dr. Tim Rockstäschel
- Research Interests: Deep Reinforcement Learning, Self-supervised Learning, Robotics

Rice University
BS COMPUTER SCIENCE, BA MATHEMATICS
Houston, Texas, USA
Aug 2014 - May 2018
- Undergraduate Research Advisor: Dr. Anshumali Shrivastava

Professional Experience

FAIR Labs at Meta
PHD STUDENT RESEARCHER
London, UK
Jan 2022 - present
- Conduct fundamental research in deep reinforcement learning and generative AI models.

Airbnb
MACHINE LEARNING ENGINEER
San Francisco, CA, USA
Aug 2018 - Sep 2021
- Built ML models for dynamic pricing and personalized content recommendations.
- Developed in-house ML infrastructures for feature engineering, model training and deployment.

LinkedIn
SOFTWARE ENGINEER INTERN
Sunnyvale, CA, USA
May 2017 - Aug 2017
- LinkedIn iOS app development.

Intuit
SOFTWARE ENGINEER INTERN
San Diego, CA, USA
May 2016 - Aug 2016
- TurboTax web development.

Publications

Zhengyao Jiang*, **Yingchen Xu***, Nolan Wagener, Yicheng Luo, Michael Janner, Edward Grefenstette, Tim Rocktäschel, Yuandong Tian. H-GAP: Humanoid Control with a Generalist Planner. *Foundation Model for Decision Making Workshop, NeurIPS*, 2023.

Rohan Chitnis*, **Yingchen Xu***, Bobak Hashemi, Lucas Lehnert, Urun Dogan, Zheqing Zhu, Olivier Delalleau. IQL-TD-MPC: Implicit Q-Learning for Hierarchical Model Predictive Control. *New Frontiers in Learning, Control, and Dynamical Systems Workshop, ICML*, 2023.

Yingchen Xu*, Jack Parker-Holder*, Aldo Pacchiano*, Philip J. Ball*, Oleh Rybkin, Stephen J. Roberts, Tim Rocktäschel, Edward Grefenstette. Learning General World Models in a Handful of Reward-Free Deployments. *NeurIPS*, 2022.

Ari Beller, **Yingchen Xu**, Scott Linderman, Tobias Gerstenberg. Looking into the past: Eye-tracking mental simulation in physical inference. *Cognitive Science*, 2022.

Beidi Chen, **Yingchen Xu**, Anshumali Shrivastava. LGD: Fast and Accurate Stochastic Gradient Estimation. *NeurIPS*, 2019.

Additional Experience

| 2023 | **Workshop Organizor**, Agent Learning in Open-Endedness Workshop at NeurIPS |
| 2023 | **Mentor**, MSc Research Project in Offline Reinforcement Learning, University College London |