

YUDA SONG

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EDUCATION

Carnegie Mellon University August 2022 -
Ph.D. in Machine Learning
Carnegie Mellon University August 2020 - December 2021
M.S. in Machine Learning
University of California, San Diego September 2016 - June 2020
B.S. in Computer Science, B.S. in Mathematics Summa Cum Laude

RESEARCH INTEREST

I am broadly interested in machine learning, especially reinforcement learning. I am interested in developing algorithms with theoretical guarantees and also testing their empirical counterparts in practice.

PREPRINT

Xuezhou Zhang, **Yuda Song**, Masatoshi Uehara, Mengdi Wang, Alekh Agarwal, Wen Sun, “Efficient Reinforcement Learning in Block MDPs: A Model-free Representation Learning Approach,” *in submission*. <https://arxiv.org/abs/2202.00063>.

PUBLICATION

Yuda Song, Ye Yuan, Wen Sun, Kris Kitani, “Online No-regret Model-Based Meta RL for Personalized Navigation,” *in Learning for Dynamics & Control Conference (L4DC)*, 2022. <https://arxiv.org/abs/2204.01925>.

Ye Yuan, **Yuda Song**, Zhengyi Luo, Wen Sun, Kris Kitani, “Transform2Act: Learning a Transform-and-Control Policy for Efficient Agent Design,” *in International Conference on Learning Representations (ICLR)*, 2022. **Oral**. <https://arxiv.org/abs/2110.03659>.

Yuda Song, Wen Sun, “PC-MLP: Model-based Reinforcement Learning with Policy Cover Guided Exploration,” *in International Conference on Machine Learning (ICML)*, 2021. <https://arxiv.org/abs/2107.07410>.

Yuda Song, Aditi Mavalankar, Wen Sun, Sicun Gao, “Provably Efficient Model-based Policy Adaptation,” *in International Conference on Machine Learning (ICML)*, 2020. <https://arxiv.org/abs/2006.08051>.

RESEARCH EXPERIENCE

KLab @ CMU, Pittsburgh September 2020 - Present
Research Assistant

- Worked at Prof. Kris Kitani's lab in Robotics Institute, CMU. Research focused on reinforcement learning, online learning and autonomous driving.

CSE Department & SDSC @ UCSD, San Diego September 2017 - June 2020
Research Assistant

- Worked at Prof. Sicun Gao's lab in UCSD CSE Department and the San Diego Supercomputer Center. Research focused on reinforcement learning and control.

TEACHING EXPERIENCE

Teaching Assistant

- UCSD CSE291: Topics in Search and Optimization (Winter 2020)
- UCSD CSE154: Deep Learning (Fall 2019)
- UCSD CSE150: Introduction to AI: Search and Reasoning (Winter 2019, Spring 2020)

Tutor

- UCSD CSE30: Computer Organization and Systems Programming (Spring 2019, Winter 2018)
- UCSD CSE11: Introduction to CS & OOP (Fall 2018)

SERVICE

Reviewer

- AAAI (2021-), ICML (2021-), NeurIPS (2021-), ICLR (2022).