Fahim Tajwar

Website: https://tajwarfahim.github.io/ Email: ftajwar@cs.cmu.edu

EDUCATION

Carnegie Mellon University   **Pittsburgh, PA**
Doctor of Philosophy (PhD), Machine Learning   2023 – Current
Advisor: Ruslan Salakhutdinov & Jeff Schneider

Stanford University   **Stanford, CA**
Master of Science (MS), Computer Science (AI/ML)   2022 -- 2023
Bachelor of Science (BS) with Distinction, Mathematics   2017 -- 2022

PUBLICATIONS (* Equal Contribution)

Preference Fine-Tuning of LLMs Should Leverage Suboptimal, On-Policy Data   2024
Fahim Tajwar*, Anikait Singh*, Archit Sharma, Rafael Rafailov, Jeff Schneider, Tengyang Xie, Stefano Ermon, Chelsea Finn, Aviral Kumar
International Conference on Machine Learning (ICML), 2024

Conservative Prediction via Data-Driven Confidence Minimization   2023
Caroline Choi*, Fahim Tajwar*, Yoonho Lee*, Huaxiu Yao, Ananya Kumar, Chelsea Finn
Transactions on Machine Learning Research (TMLR), 2024

Surgical Fine-Tuning Improves Adaptation to Distribution Shifts   2023
Yoonho Lee*, Annie S Chen*, Fahim Tajwar, Ananya Kumar, Huaxiu Yao, Percy Liang, Chelsea Finn
International Conference on Learning Representations (ICLR), 2023

When to Ask for Help: Proactive Interventions in Autonomous Reinforcement Learning   2022
Annie Xie*, Fahim Tajwar*, Archit Sharma*, Chelsea Finn
Conference on Neural Information Processing Systems (NeurIPS), 2022

Do Deep Networks Transfer Invariances Across Classes?   2022
Allan Zhou*, Fahim Tajwar*, Alexander Robey, Tom Knowles, George J. Pappas, Hamed Hassani, Chelsea Finn
International Conference on Learning Representations (ICLR), 2022

Scalable deep learning to identify brick kilns and aid regulatory capacity   2021
Jihyeon Lee*, Nina R. Brooks*, Fahim Tajwar, Marshall Burke, Stefano Ermon, David B. Lobell, Debashish Biswas, Stephen P. Luby
Proceedings of the National Academy of Sciences, Apr 2021, 118 (17)

PREPRINTS (* Equal Contribution)

Offline Retraining for Online RL: Decoupled Policy Learning to Mitigate Exploration Bias   2023
Max Sobol Mark*, Archit Sharma*, Fahim Tajwar, Rafael Rafailov, Sergey Levine, Chelsea Finn
Under review, 2023

No True State-of-the-Art? OOD Detection Methods are Inconsistent across Datasets   2021
Fahim Tajwar, Ananya Kumar*, Sang Michael Xie*, Percy Liang
ICML Workshop on Uncertainty & Robustness in Deep Learning (UDL), 2021

TEACHING EXPERIENCE

Teaching Assistant, Math 20 (Calculus), Stanford University   Jan 2023 – March 2023
Teaching Assistant, CS 330 (Deep Multi-Task and Meta Learning), Stanford University   Sept 2022 – Dec 2022
Academic Tutor, Athletic Academic Resource Center (AARC), Stanford University   Sept 2021 – June 2022
Academic Tutor, Stanford University Mathematical Organization (SUMO)   Sept 2019 – June 2020

INDUSTRY EXPERIENCE

Software Engineer Intern, Meta Platforms   June 2022 – September 2022
Software Engineer Intern, Cadence Design Systems   June 2020 – September 2020

TALKS & PRESENTATION

- Neural Information Processing Systems (NeurIPS)   November 2022
- International Conference on Learning Representations (ICLR)   April 2022
- ICML Workshop on Uncertainty & Robustness in Deep Learning (UDL)   July 2021
- Stanford Earth Summer Undergraduate Research (SESUR)   August 2019
- Stanford EE Research Experience for Undergraduates (REU)   August 2018

AWARDS

Top Reviewer, Conference on Neural Information Processing Systems (NeurIPS)   2023
University Distinction, top 15% of the graduating class, Stanford University   2022
Tau Beta Pi Engineering Honor Society   2020
Bronze Medal, 48th International Physics Olympiad, Indonesia   2017
Bronze Medal, 47th International Physics Olympiad, Switzerland Liechtenstein   2016

SERVICE

- Reviewer, Conference on Neural Information Processing Systems (NeurIPS) (**Top Reviewer, 2023**)   2023
- Reviewer, NeurIPS Workshop on Distribution Shifts (DistShift)   2023
- Reviewer, International Conference on Learning Representations (ICLR)   2024
- Reviewer, International Conference on Machine Learning (ICML)   2024
- Reviewer, The IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR)   2024
- Reviewer, Transactions on Machine Learning Research (TMLR)   2024
- Reviewer, International Joint Conference on Artificial Intelligence (IJCAI)   2024