Sriyash Poddar

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Education

University of Washington September 2023 – Present
PhD in Computer Science and Engineering
Advisors: Prof. Abhishek Gupta and Prof. Natasha Jaques GPA:4.0/4.0

Indian Institute of Technology Kharagpur July 2018 – September 2023
M.Tech and B.Tech in Computer Science and Engineering
Advisor: Prof. Partha P. Chakrabarti GPA: 9.40/10.0

Publications

[1] From Crowd Motion Prediction to Robot Navigation in Crowds
S. Poddar, C. Mavrogiannis, S. S. Srinivasa
International Conference on Intelligent Robots and Systems (IROS) 2023. [PDF]

[2] Winding Through: Crowd Navigation via Topological Invariance
C. Mavrogiannis, K. Balasubramanian, **S. Poddar**, A. Gandra, S. S. Srinivasa
IEEE Robotics and Automation Letters (RA-L) 2023. [PDF]

[3] Optimal sequential decision-making with changing action space
T. Anand, P. Badjatiya, **S. Poddar**, J. Subramanian, G. Theocharous, K. Balaji
US Patent App. 17/659,983 [PDF]

[4] Understanding the Role of Affect Dimensions in Detecting Emotions from Tweets: Multi-task Approach
R. Mukherjee, **S. Poddar***, A. Naik*, S. Dasgupta, N. Ganguly
International ACM SIGIR Conference on Research and Development in Information Retrieval 2021. [PDF]

Experience

Graduate Researcher, UW Robotics - September 23 - Present

Human in the loop RL and distributional preference learning for real-world robot learning and LLMs.

Undergraduate Researcher, UW Robotics - *advised by Prof. Siddhartha Srinivasa* April 21 - March 23

Model predictive control and human motion prediction for safe and adaptive robot navigation in crowded and challenging scenarios. Developed and tested the frameworks on Honda's experimental self-balancing robot.

Research Intern, Mila - Quebec AI Institute - *advised by Prof. Sarath Chandar* May 22 - July 22

Intrinsic motivation for handling non-stationarity in multi-agent reinforcement learning algorithms.

Research Intern, Adobe Inc. - *Media and Data Science Research Lab* May 21 - July 21

Lifelong learning to generate agents for dynamic action spaces in environments such as recommenders system.

Service

Reviewer ICRA 2023, HRI 2024, T-RO 2024

UW CSE PhD Admissions Reviewer 2024

Pre Application Mentorship Service (PAMS) Volunteer Fall 2023

Teaching Assistant - Reinforcement Learning, IIT Kharagpur Fall 2022