

BHAVYA KUMAR AGRAWALLA

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EDUCATION

Carnegie Mellon University (CMU) Pittsburgh, PA September 2024 - Present
PhD Student In The Computer Science Department (CSD) | Area: Artificial Intelligence

Massachusetts Institute of Technology (MIT) Cambridge, MA September 2021 - June 2024
B.S. : Artificial Intelligence, Mathematics GPA : 4.8/5.0

AWARDS & DISTINCTIONS

• **Silver medallist** at the 60th **International Mathematical Olympiad (IMO)** 2019

PREPRINTS

floq: Training Critics via Flow-Matching for Scaling Compute In Value-Based RL
Bhavya Agrawalla, Michal Nauman, Khush Agrawal, Aviral Kumar
Under Review At International Conference On Learning Representations (ICLR)-2026 (Top 3% Scores)

PUBLICATIONS

Statistical Inference for Linear Functionals of Online Least Squares SGD when $t \gtrsim d^{1+\delta}$
Bhavya Agrawalla, Krishnakumar Balasubramanian, Promit Ghosal
IEEE Transactions on Information Theory, 2025

DISeR: Designing Imaging Systems with Reinforcement Learning
Tzofi Klinghoffer, Kushagra Tiwary, Nikhil Behari, **Bhavya Agrawalla**, et. al
International Conference on Computer Vision (ICCV), 2023

Harrison Homology and the Quillen Cohomology of Commutative Monoids
Bhavya Agrawalla, Nasief Khlaif, Haynes Miller
Semigroup Forum Journal, 2023