BHAVYA AGRAWALLA

Address ⋄ Cambridge, Massachusetts, United States
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EDUCATION

Massachusetts Institute of Technology *September 2021 - May 2024*
Candidate for Bachelors of Science in Mathematics (Course 18)
Candidate for Bachelors of Science in AI and Decision Making (Course 6-4) CGPA: 4.9/5.0

Indian Institute of Science, Bangalore *September 2020 - July 2021*
Transferred to MIT after first year

AWARDS AND RECOGNITION

Silver Medal at the International Mathematical Olympiad 2019 *2019*
60th IMO 2019 held at Bath, United Kingdom

MIT Outstanding Undergraduate Researcher Award 2023, Nominee *2023*

MIT HKN Honors Society *2023*
For excellent academic performance in Electrical Engineering and Computer Science (EECS)

INDUSTRY INTERNSHIPS

Vector AI Institute, Ontario, Canada *2024*
Incoming Research Intern

PUBLICATIONS AND PREPRINTS

High Dimensional Central Limit Theorem for Linear Functionals of Online Least-Squares SGD *2023*
Bhavya Agrawalla, Krishnakumar Balasubramaniam, Promit Ghosal
Under Review for *IEEE Transactions on Information Theory*

Designing Imaging Systems using Reinforcement Learning (DISER) *2023*
Tzofi Klinghoffer, Kushagra Tiwary, Nikhil Behari, Bhavya Agrawalla, Ramesh Raskar
Accepted at *International Conference on Computer Vision (ICCV) 2023*

Harrison Homology and Quillen Cohomology of Commutative Monoids *2023*
Bhavya Agrawalla, Nasief Khlaif, Haynes Miller
Under Review for *Jornal of Pure and Applied Algebra*

ADVANCED COURSEWORK

Algebraic Topology, Complex Analysis, General Relativity, Quantum Computation,
Quantum Information Theory, Non Asymptotic Statistics, Theory of Probability,
Theory of Computation, Computational Sensorimotor Learning, Advances in Computer Vision.

TECHNICAL KNOWLEDGE

Python, C/C++, Java, R, PyTorch, TensorFlow, Keras, Stable-Baselines (SB3), PyRedner, PyGame,
GIT/GitHub, Linux, Windows