

# BHAVYA AGRAWALLA

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## EDUCATION

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**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

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

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

## INTERNSHIPS

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

## PUBLICATIONS AND PREPRINTS

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

**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

## ADVANCED COURSEWORK

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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

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