

Rohan Goyal

CONTACT INFORMATION	Massachusetts Insitute of Technology 32 Vassar St., Cambridge, MA	rohan.g@mit.edu www.goyal-rohan.github.io
RESEARCH INTERESTS	I am broadly interested in theoretical computer science. In particular, I focus on notions of robustness: error-correcting codes, expander graphs, proof systems etc.	
EDUCATION	Massachusetts Institute of Technology , Cambridge, MA, USA Advisor: Yael Tauman Kalai PhD. in Computer Science	September 2024-Present CGPA: 5.0/5.0
	Chennai Mathematical Institute , Chennai, India B.Sc.(Honours) in Mathematics and Computer Science	September 2021-April 2024 CGPA: 9.62/10.0
INTERNSHIPS, RESEARCH PROJECTS	Tata Institute of Fundamental Research , Navy Nagar, Mumbai, India <i>Intern</i> Worked under Prahladh Harsha and Mrinal Kumar on problems related to error-correcting codes.	May 2023 - August 2023
	ENS Paris , 45 Rue d’Ulm, 75005 Paris, France <i>Intern</i> Worked under David Saulpic and Frédéric Magniez on problems related to clustering algorithms. This internship was a part of the CMI-ENS exchange program.	May 2024 - June 2024
WRITING AND PUBLICATIONS	Publications <ul style="list-style-type: none"><i>Fast list-decoding of univariate multiplicity and folded Reed-Solomon codes</i> [ArXiv] [ECCC] with Prahladh Harsha, Mrinal Kumar, and Ashutosh Shankar.<i>Efficiently Batching Unambiguous Interactive Proofs</i> [ArXiv] with Bonnie Berger, Matthew Hong, and Yael Tauman Kalai. Manuscripts <ul style="list-style-type: none"><i>Fast list-recovery of univariate multiplicity and folded Reed-Solomon codes</i> with Prahladh Harsha, Mrinal Kumar, and Ashutosh Shankar.	[FOCS 2024, Chicago] [FOCS 2025, Sydney]
Talks	Fast list-decoding of univariate multiplicity and folded Reed-Solomon codes: <ul style="list-style-type: none">University of Copenhagen; BARC Research CenterChennai Mathematical Institute, Computer Science Seminar Efficiently Batching Unambiguous Interactive Proofs: <ul style="list-style-type: none">MIT CIS Seminar	January 2025 January 2025 October 2025
Service	Subreviewed for FOCS and ACM Transactions on Algorithms.	
TAing Experience	I have served as a TA at CMI for: <ul style="list-style-type: none">Discrete MathematicsComplexity TheoryTheory of Computation	Spring 2023, 2024 Spring 2023 Fall 2022

HONORS AND AWARDS	Deputy Leader India, European Girls Mathematics Olympiad 2023 Indian team	2023
	Observer A India, International Mathematical Olympiad	2024
	Bronze Medal at International Mathematical Olympiad (IND1)	2021
	Sriram Scholarship: Complete tuition fee waiver for attending CMI	2021-2024
	Kishore Vigyanik Pratyogita Yojana (KVPY) Scholarship	2021-2024
MATH TEACHING EXPERIENCE AND OUTREACH	I have been heavily involved with various mathematics competitions, training programs, and Olympiads. I have taught, helped set exams, proposed problems, and been a leader for various Indian Mathematical Olympiad teams as well including the EGMO team in 2023 and the IMO team in 2024. For more information or to discuss opportunities, please write to me.	