Dhrubajyoti Ghosh

Curriculum Vitae

PERSONAL

YEAR OF BIRTH: 2002 COUNTRY OF ORIGIN: India

Home Page: https://ghoshdhruba.github.io/

LANGUAGE: English (fluent), French (basic), Bengali (mother tongue)

EDUCATION

2024-2025	ENS Paris-Saclay, M2 Master Parisien de Recherche en Informatique
	Score: 16.74/20, Rank: 17 out of 87
2023-2024	ENS Paris-Saclay, M1 Master Parisien de Recherche en Informatique
	Score: 16.86/20, Rank: 4 out of 27
2020-2023	Chennai Mathematical Institute, India
	B.Sc. Mathematics and Computer Science, CGPA: 9.26/10

Internships, Projects

Apr - Aug 2025	M2 Internship at ENS Paris-Saclay
	Continuation of the work done on the problem of my M1 internship.
Feb - June 2024	M1 Internship at ENS Paris-Saclay
	Worked under Thomas Nowak on finding a synchronous message passing
	model equivalent to the asynchronous message passing model with process
	faults. Collaborated with researchers from Technion, Israel and UNAM, Mexico.
SEP - DEC 2023	Reading project in distributed computing, ENS Paris-Saclay
	Read and presented two recent results (here, here) using topological methods
	to characterize task solvability in various distributed computing models
May - July 2023	Internship at Max Planck Institute for Informatics, Saarbrücken
	Worked under Christoph Lenzen on efficient synchronous counting. The
	aim was to improve the communication complexity of an existing algorithm.
May - July 2022	Summer Internship at IIT Kharagpur, India
	Studied Nakamoto consensus [slides] and parts of the Paxos protocol
	under Prof. Sudebkumar Pal.

RESEARCH INTERESTS

Broadly interested in distributed computing, currently focusing on comparing the computational power of models of distributed computing.

SELECTED COURSEWORK

MATHEMATICS: COMPUTER SCIENCE:

(At CMI): (In MPRI M1 & M2):

Topology Distributed algorithms on networks

Differential Equations Advanced graph theory

Probability Theory Theory of practical graph algorithms
Real Analysis Quantum information and applications

Complex Analysis Approximation Algorithms
Ring and Field Theory Analytic Combinatorics

Group Theory Efficient Algorithms in Computer Algebra Linear Algebra Probabilistic Aspects of Computer Science

Lambda-calculus and categories (At CISPA, Saarbrücken, unofficial):

Clock Synchronization and Adversarial Fault Tolerance

(At CMI):

Concurrent Programming

Programming Language Concepts

Infinite State Verification Theory of Computation

Design and Analysis of Algorithms

Computational Complexity
Discrete Mathematics

ACHIEVEMENTS, AWARDS

2023-2025 Université Paris-Saclay IDEX Scholarship

Grant for attending the MPRI program at ENS Paris-Saclay

2019, 2020 Indian National Mathematical Olympiad

Among top 31 students nationwide chosen for IMO Training Camp in 2019, 2020

Software Knowledge

Programming Languages: C++ (fluent), Python (fluent), Haskell (basic)

Misc.: LaTeX, Unix, Vim, Z3, PyTorch