Diptaksho Palit

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EDUCATION

Boston University	Boston, USA
Ph.D. in Computer Science; **Advisor: Sofya Raskhodnikova**	*Sep 2023 – Present*
Chennai Mathematical Institute	Chennai, India
B.Sc. (Honours) in Mathematics and Computer Science; **GPA: 9.89/10.00**	*Dec 2020 – Jun 2023*

PUBLICATIONS

Computational Complexity in Property Testing	SODA 2026
Authors: Renato Ferreira Pinto Jr., Diptaksho Palit, Sofya Raskhodnikova	

RESEARCH INTERNSHIPS

Institut de Recherche en Informatique Fondamentale (IRIF) — Paris, France
Advisors: Claire Mathieu, Frederic Magniez — *May 2024 – Jun 2024*
- Studied structural properties of the randomized greedy maximal matching of a graph.

Institut de Recherche en Informatique Fondamentale (IRIF) — Paris, France
Advisors: Claire Mathieu, Frederic Magniez — *May 2023 – Jun 2023*
- Studied sublinear time algorithms for approximating the maximum matching of a graph.
- The internship was an exchange program for top-ranking senior students at Chennai Mathematical Institute.

National University of Singapore — Singapore
Advisor: Diptarka Chakraborty — *Dec 2022 – Jan 2023*
- Studied the hardness of computing medians under various metrics like k-distance and edit distance.
- Constructed reductions to prove the NP-hardness of computing a variant of the LCS problem over permutations.

Chennai Mathematical Institute — Chennai, India
Advisor: Nithin Varma — *May 2022 – Dec 2022*
- Surveyed the model of Local Computation Algorithms and related works.

University of Victoria — Victoria, Canada
Advisor: Teseo Schneider — *May 2022 – Dec 2022*
- Worked on a rasterization application for PolyFEM, an open source rendering tool maintained by professors from New York University and the University of Victoria.

TEACHING EXPERIENCE

Doctoral Teaching Fellow — Boston, USA
Boston University — *January 2024 – May 2024*
- Teaching fellow for the following courses: CS332: Theory of Computation.

Undergraduate Teaching Assistant — Chennai, India
Chennai Mathematical Institute — *Sep 2021 – April 2023*
- Teaching assistant for the following courses: Introduction to Programming (Haskell), Advanced Programming, Discrete Mathematics, Design and Analysis of Algorithms, and English.

Mathematics Mentor — Wardha, India
Bajaj Science Education Centre — *Jan 2022 – Mar 2022*
- Conducted weekly Mathematical Olympiad classes for high school students.

SKILLS

Programming: C, C++, C#, Java, Python, Haskell, EasyCrypt, LaTeX.

Languages: English (Professional), Bengali (Native), Hindi (Intermediate), German (Elementary).

Awards & Achievements

2023   **CMI Silver Medal:** Ranked 2nd among 40 students.

2020   **SHRIRAM Scholarship (Top 30):** Complete tuition fee waiver for undergraduate studies.

2020   **KVPY Scholarship (Top 900):** Monthly and annual stipend for undergraduate studies.