

# Diptaksho Palit

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## EDUCATION

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### Boston University

*Ph.D. in Computer Science; Advisor: Sofya Raskhodnikova*

Boston, USA

*Sep 2023 – Present*

### Chennai Mathematical Institute

*B.Sc. (Honours) in Mathematics and Computer Science; GPA: 9.89/10.00*

Chennai, India

*Dec 2020 – Jun 2023*

## PUBLICATIONS

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### Computational Complexity in Property Testing

*Authors: Renato Ferreira Pinto Jr., Diptaksho Palit, Sofya Raskhodnikova*

SODA 2026

## RESEARCH INTERNSHIPS

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### Institut de Recherche en Informatique Fondamentale (IRIF)

*Advisors: Claire Mathieu, Frederic Magniez*

Paris, France

*May 2024 – Jun 2024*

- Studied structural properties of the randomized greedy maximal matching of a graph.

### Institut de Recherche en Informatique Fondamentale (IRIF)

*Advisors: Claire Mathieu, Frederic Magniez*

Paris, France

*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

*Advisor: Diptarka Chakraborty*

Singapore

*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

*Advisor: Nithin Varma*

Chennai, India

*May 2022 – Dec 2022*

- Surveyed the model of Local Computation Algorithms and related works.

### University of Victoria

*Advisor: Teseo Schneider*

Victoria, Canada

*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

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### Doctoral Teaching Fellow

*Boston University*

Boston, USA

*January 2024 – May 2024*

- Teaching fellow for the following courses: CS332: Theory of Computation.

### Undergraduate Teaching Assistant

*Chennai Mathematical Institute*

Chennai, India

*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

*Bajaj Science Education Centre*

Wardha, India

*Jan 2022 – Mar 2022*

- Conducted weekly Mathematical Olympiad classes for high school students.

## AWARDS & ACHIEVEMENTS

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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.