

Sutanoya Chakraborty

Research Fellow, **Indian Statistical Institute, Kolkata**

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Summary

I am a *research fellow* at ISI Kolkata, working under the supervision of Prof. Arijit Ghosh.

Education

- Tata Institute of Fundamental Research, Centre for Applicable Mathematics BENGALURU, INDIA
M. Sc. in Mathematics
❑ All India **rank 2** in CSIR-NET (National Eligibility Test) examination in Mathematics.
- Institute of Development Studies Kolkata KOLKATA, INDIA
M. Phil. in Development Studies
❑ Specializing in Economics.
❑ **Dissertation:** “*Urban Informal Workers in Print News Media - A Study of Newspapers from Kolkata*”.
- University of Kalyani KOLKATA, INDIA
M. A. in Journalism
- Bidhannagar Government College, University of Calcutta KOLKATA, INDIA
B. Sc. in Mathematics
- Bagbazar Multipurpose Girls’ High School KOLKATA, INDIA
10+2 (Higher Secondary Education)
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Publications

- ❑ [Stabbing Boxes with Finitely Many Axis-Parallel Lines and Flats](#) **Discrete Mathematics**
348(2), 2025
S. Chakraborty, A. Ghosh, S. Nandi
- ❑ [Language Models are Crossword Solvers](#) **NAACL 2025** (main)
Pages 2074–2090
S. Saha, S. Chakraborty, S. Saha, U. Garain
- ❑ [A Hanani-Tutte Theorem for Cycles](#) *Preprint*
2024
S. Chakraborty, A. Ghosh
- ❑ [Finite k-Transversals of Infinite Families of Fat Convex Sets](#) *Preprint*
Under review. 2024
S. Chakraborty, A. Ghosh, S. Nandi
- ❑ [Countably Colorful Hyperplane Transversal](#) *Preprint*
Under review. 2024
S. Chakraborty, A. Ghosh, S. Nandi
- ❑ [Dimension Independent Helly Theorem for Lines and Flats](#) *Preprint*
Under review. 2023
S. Chakraborty, A. Ghosh, S. Nandi
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Experience

- Visiting Researcher at University of Warsaw** Aug 2023
Visited the *Department of Mathematics, Informatics and Mechanics* at the *University of Warsaw, Poland*. Collaborated with Prof. Kunal Dutta on geometric problems.
- Convex and Discrete Geometry Summer School** Aug 2023
Participated in the *Convex and Discrete Geometry Summer School* held at *Alfréd Rényi Institute of Mathematics, Budapest, Hungary*.

Teaching and Presentations

- ❑ *Instructor* at Summer Workout in Mathematics (SWIM), TIFR, Bengaluru.
- ❑ *Teaching assistant* for the Discrete Mathematics course at ISI, Kolkata.
- ❑ *Teaching assistant* for the Algorithms course at ISI, Kolkata.