Curriculum vitae of Anamitro Biswas

Information:

Nationality: Indian
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Residential address: 13 Bansdroni New Govt. Colony, Kolkata-700070 (India)

Since December 2024, Research scholar at Indian Institute of Technology Bhilai, Durg, Chattisgarh (India).

Sep 2023 to Feb 2024, Research assistant, Mathematical Aspects of Cryptanalysis [under Dr. Arpita Maitra], Institute of Advancing Intelligence, TCG Centres of Research and Education in Science and Technology, Kolkata (India).

Fall 2023 and Spring 2024, Project student in Algebraic Topology and Homotopy Theory and Algebraic Geometry [supervised by Dr. Goutam Mukherjee], Institute of Advancing Intelligence, TCG Centres of Research and Education in Science and Technology, Kolkata (India).

Research papers and preprints:

- Anamitro Biswas and Eshita Mazumdar, *Davenport constant for finite abelian groups with higher rank*, Mathematical Notes, accepted with minor revision [preprint: https://arxiv.org/abs/2402.09999].
- Anamitro Biswas, Subhankar Jana and Juthika Mahanta, *Application of Coast of a fuzzy set as a crisper alternative of the fuzzy boundary* [preprint].
- Anamitro Biswas and Eshita Mazumdar, *Zero-sums of exponential length in k-restricted sequences over groups of higher rank* [in preparation].

Conference proceedings:

- Anamitro Biswas (joint work with Eshita Mazumdar), *Aspects of the Davenport Constant for Finite Abelian Groups*, Proceedings of IMBIC (Institute for Mathematics, Bio-informatics, Information-Technology and Computer Science), Vol. 13 (2024), pp. 297-298 [PDF at conference website: https://imbicorg.blogspot.com/p/previous-proceedings.html?m=1, Proceedings of MSAST 2024].

M.Sc. thesis:

Coast of a fuzzy set as a 'crisper' subset of the boundary

Supervisor: Dr. Juthika Mahanta, Department of Mathematics, National Institute of Technology Silchar.

PDF copy: https://drive.google.com/file/d/11XLXPRux26j0HWW8DVZTV_RGlq4kWYZg/view?usp=drive_link

Education:

- *Master of Science* in Mathematics at *National Institute of Technology Silchar* (India), 2021-2023. CGPA: 9.06/10.
- *Bachelor of Science* in Mathematics from *University of Calcutta* (India) 2018-2021. Overall CGPA: 7.304/10.
- Higher secondary education (10+2) in Science from Patha Bhavan, Kolkata, 2015-2017 (West Bengal Council of Higher Secondary Education). Overall percentage: 82.2.

Talks:

- Dec 23d 2024, *Aspects of the Davenport Constant for Finite Abelian Groups*, 18th International Conference: Mathematical Sciences for Advancement of Science and Technology (MSAST 2024) 2024, organized by IMBIC.

  Conference webpage: https://imbicorg.blogspot.com/

  Proceedings: https://imbicorg.blogspot.com/p/previous-proceedings.html?m=1

- Apr 30h 2024, *The Davenport Constant For Finite Abelian Groups And Its r-wise Generalization*, Students' talk, TCG Centres for Research And Education in Science and Technology.

- Feb 4h 2023, *r-wise Davenport constant for finite abelian groups*, COmbinatorial Number Theory And Connected Topics - II (CONTACT-II).

  Conference webpage: https://sites.google.com/view/contact-ii/home

Languages:

- Bengali (first language)
- English (Proficiency: CEFR level C1); IELTS overall band score 8.0.

Programming Languages:

R, C and some basic Python and MATLAB

GitHub

- **d-r-bounds:** R programs to calculate upper and lower bounds for the r-wise Davenport constant for finite abelian groups, using our proposed formula in the paper Davenport constant for finite abelian groups with higher rank (arXiv:2402.09999 [math.NT]). Repository: https://github.com/anamitro/d-r-bounds.
- **ibus-table-sasankadeva**, an input engine for the Bengali script in Unix-like OS. Repository: https://github.com/anamitro/ibus-table-sasankadeva.
- **TEXচাঁদ**, XELATEX-based templates for scientific and literary publication in Bengali vernacular (Indic script). Resposi-tories: https://anamitro.github.io/TeXchand/.

Co-curriculars:

- *Painting*, a collection of which is uploaded in this website: https://sites.google.com/view/ani-paint.