

Habibur Rahaman

PhD student in Mathematics, IISER Kolkata

Academic Profile

- August 2021-
Current **PhD, IISER Kolkata, Mohanpur, Nadia**
- **Research Area:** Analytic Number Theory
 - **Supervisor:** Dr. Soumya Bhattacharya
- 2018-2020 **Master of Science (Mathematics)**, *University of Kalyani, Kalyani, West Bengal*
- 2015-2018 **Bachelor of Science (Mathematics Hons.)**, *Sripat Singh College (University of Kalyani), Jiaganj, West Bengal*
- 2013-2015 **Higher Secondary Examination (West Bengal Board of Higher Secondary Education)**, *Bhagirathpur High School, Domkal, West Bengal*
- 2013 **10th Examination (West Bengal Board of Secondary Education)**, *Bhagirathpur High School, Domkal, West Bengal*

PrePrints

- 2024 **Primes and polygonal numbers**, *joint work with Soumya Bhattacharya*, submitted for publication.
<https://arxiv.org/abs/2408.13650>
- 2024 **Diophantine Approximation with Piatetski-Shapiro Primes**, *joint work with Stephan Baier*, submitted for publication.
<https://arxiv.org/abs/2408.01314>
- 2024 **Representation of even Gaussian integer à la Chen**, *joint work with Soumyarup Banerjee*, submitted for publication.
<http://arxiv.org/abs/2406.16311>
- 2024 **Primes in tuples of linear forms in number fields and function fields**, *submitted for publication.*

Achievements

- 2022 **Prime Minister Research Fellowship**, *Awarded by Ministry of Education, Government of India*
- 2021 **NBHM PhD Scholarship**, *Awarded by National Board for Higher Mathematics*
- 2021 **Qualified GATE**, *Conducted by Indian Institute of Technology Bombay*
- 2020 **CSIR JRF**, *Awarded by Council of Scientific and Industrial Research*
- 2020 **Qualified West Bengal SET**, *Conducted By WBCSC*

Talks

- 2023 **Primes in Tuples of Linear Forms**, *IINMM, Bhubaneswar, 30th September*
- 2023 **Primitive sets and the Erdős conjecture**, *Math club, IISER Kolkata, 3rd February*

Conferences, Workshops and Training Schools

- 2024 **Analytic and Combinatorial Number Theory**, 20-30th March, Organised by Harish-Chandra Research Institute (HRI), Allahabad, India
- 2024 **Discussion Meeting in Analytic Number Theory 2024**, 8-12th January, ISI Kolkata, India
- 2023 **Inter IISER-NISER Mathematics Meet (IINMM)**, 29th September-1st October, NISER, Bhubaneswar, India
- 2023 **RHB70: Analytic Number Theory and Its Interfaces**, July 10-14, Organised by Mathematical Institute, University of Oxford, UK
- 2023 **Infosys Lecture Series, Probabilistic and Analytic Method in Additive Number Theory by Professor Jean-Marc Deshouillers**, 22-25th February, 2023, Organised by Harish-Chandra Research Institute (HRI), Allahabad, India
- 2023 **Conference on Analytic Number Theory**, 6-9th February, Organised by Indian Statistical Institute, Kolkata
- 2022 **Instructional School for Teachers**, held during June 6-18, Organised by IISER Kolkata, Department of Mathematics and Statistics
- 2022 **Inter IISER-NISER Math Meet (IINMM)**, held during 31st May - 2nd June, 2022, Organised by IISER Kolkata, Department of Mathematics and Statistics
- 2022 **Poster presentation on "Developments in the Prime Number Theory"**, 14th April, DMS Day, IISER Kolkata
- 2020 **International Conference on Mathematical Sciences and Applications (ICMSA)**, held during February 26-28, 2020, Organised by University of Kalyani, Department of Mathematics

Teaching Experience

- 2024 **Teaching Assistant in Probability I (MA2202) in Spring semester, IISER Kolkata**
Instructor: Dr. Soumya Bhattacharya
- 2023 **Teaching Assistant in Introductory Course In Real Analysis (MA85) in Autumn semester, NPTEL**
Instructor: Prof. P. D. Srivastava, IIT Kharagpur
- 2023 **Teaching Assistant in Basic Linear Algebra (MA07) in Spring semester, NPTEL**
Instructor: Prof. I. K. Rana, IIT Bombay
- 2023 **Teaching Assistant in Complex Analysis (MA4201) in Spring semester, IISER Kolkata**
Instructor: Dr. Subrata Shyam Roy
- 2022 **Teaching Assistant in Linear Algebra I (MA2102) in Autumn semester, IISER Kolkata**
Instructor: Dr. Somnath Basu
- 2022 **Teaching Assistant in Mathematical Method I (MA1202) in Spring semester, IISER Kolkata**
Instructor: Dr. Anandamohan Ghosh
- 2022 **Teaching Assistant in Algebra in Annual Foundation School-II (AFS-II), 20th June - 16th July**, Organised by IISER Kolkata, Department of Mathematics and Statistics
Instructor: Dr. Arjun Paul and Dr. Swarnendu Datta

References

Dr. Soumya Bhattacharya

Assistant Professor

Department of Mathematics and Statistics

Indian Institute of Science Education and Research (IISER) Kolkata

soumya.bhattacharya@iiserkol.ac.in

Webpage: <https://sites.google.com/site/soumyabhattacharya/>