

# Aditya Ghosh

## Curriculum Vitae

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### Education

- 2020–Present **Masters of Statistics (M.Stat)**, *Indian Statistical Institute (I.S.I.)*, Kolkata, India.  
Scored **94.4%** in the first year.
- 2017–2020 **Bachelor of Statistics (B.Stat)**, *Indian Statistical Institute (I.S.I.)*, Kolkata, India.  
Scored **93.9%** in aggregate.
- 2015–2017 **Higher Secondary (12<sup>th</sup> Grade) Examination**, *Ramakrishna Mission Boys' Home, Higher Secondary School, Rahara*, Kolkata.  
Scored **91%** in aggregate, with 100 in Mathematics and 99 in Statistics.
- 2005–2015 **Secondary (10<sup>th</sup> Grade) Examination**, *Ramakrishna Mission Boys' Home, Higher Secondary School, Rahara*, Kolkata.  
Scored **87.1%** in aggregate, with 100 in Mathematics.

### Academic achievements

- 2021 **ISIAA – Mrs. M.R.Iyer Memorial Gold Medal** for the highest aggregate in the B.Stat course at I.S.I., Kolkata.
- 2021 **Nikhilesh Bhattacharyya Memorial Gold Medal** for outstanding performance in Statistics in the B.Stat course at I.S.I., Kolkata.
- 2017–2020 Received *prize money* in form of books for performing well throughout the B.Stat course at I.S.I., Kolkata.
- 2019 Selected for the prestigious **Madhava Nurture Camp 2019** at *Chennai Mathematical Institute (C.M.I.)*, Siruseri, Chennai.
- 2018 Selected for the prestigious **Madhava Nurture Camp 2018** at *St. Xavier's College*, Kolkata.
- 2018 Received prizes from I.S.I. for performing well in the **Simon Marais Mathematics Competition 2018**. Scored in the top quartile.
- 2017 Ranked **2<sup>nd</sup>** in the B.Stat entrance examination of I.S.I., and also cleared the B.Sc entrance examination of Chennai Mathematical Institute (C.M.I.).
- 2016 Achieved a **certificate of merit** for performing at a promising level in **Indian National Mathematical Olympiad (INMO) 2016**, organized by the NBHM, Govt. of India. This is awarded to the top 75 participants in the country.
- 2016 Selected for the **INMO 2016 training camp** at I.S.I., Kolkata.

### Publications

1. Ghosh, A. (2019). An asymptotic formula for the Chebyshev theta function. *Notes on Number Theory and Discrete Mathematics*, 25(4), 1-7.  
doi: [10.7546/nntdm.2019.25.4.1-7](https://doi.org/10.7546/nntdm.2019.25.4.1-7)

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## Projects/Internships

- Fall 2020 **On Age-dependent Branching Processes with/without Immigration**, a group project with classmates *Wribhu Banik* and *Shouvik Middey*.  
**Guide:** [Prof. Soumendu Sundar Mukherjee](#). Submitted a report and gave a presentation.
- Fall 2020 **Analyzing a Lower Back Pain Data**, a group project with classmates *Anik Burman* and *Soham Das*.  
**Guide:** [Prof. Kiranmoy Das](#). Submitted a report and gave a presentation.
- Summer 2020 **Finding Anomalies in a Coal Quality data of Coal India Limited**, a group project with classmates *Soham Das* and *Arjama Das*.  
**Guide:** [Prof. Debashis Sengupta](#). Submitted a report and gave a presentation.
- Spring 2020 **Typical Distance between Two Randomly Selected Vertices of a Erdős-Rényi Binomial Random Graph**, a joint project with classmate *Sayak Chatterjee*.  
**Guide:** [Prof. Antar Bandyopadhyay](#). Submitted a report and gave a presentation.
- Spring 2020 A **Survey** on the impact of lockdown on the academic life of students and research scholars of I.S.I. Kolkata amidst the Covid-19 pandemic.
- Summer 2019 **Method of Moments in Probability Theory**.  
**Guide:** [Prof. Arijit Chakrabarty](#).
- Summer 2019 **Summer Internship in Cryptology**, offered by the *R. C. Bose Centre for Cryptology and Security*, *Indian Statistical Institute*, Kolkata.  
**Guide:** [Prof. Rana Barua](#).
- Spring 2018 An **independent study** on Analytic Number Theory.  
**Status:** Published in a journal (see Publications).

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## Other presentations/talks

- Summer 2021 Presented the topic **Two-sample testing of the equality of mean functions** at an [Online Reading Group on Functional Data Analysis](#).
- Spring 2021 Gave a talk on **Matching Estimators in Causal Inference** at the *Students' Learning Seminar*, I.S.I., Kolkata.
- Summer 2020 Presented a paper titled '**What we look at in paintings : a comparison between experienced and inexperienced art viewers**' (Ylitalo, A.K., Särkkä, A., and Guttorp, P. (2016). *Ann. Appl. Stat.* 10 (2) 549 - 574), at I.S.I., Kolkata.
- Fall 2019 Presented a topic on **Population Census of India, 2011** at the *Sampling and Official Statistics Unit*, I.S.I., Kolkata.

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## Other information

- Technical skills R, C,  $\text{\LaTeX}$ , HTML, MS-Office.
- Languages Bengali (mother tongue), English (fluent) and Hindi (conversational).
- Teaching Trained a number of students for Mathematical Olympiads and the entrance examinations of I.S.I., C.M.I., and other colleges.

*I hereby declare that all the information provided above are true to the best of my knowledge.*  
*Aditya Ghosh.*