

## Shounak Chakraborty

Doctoral student (Finance), National University of Singapore, Singapore  
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### EDUCATION

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**National University of Singapore, Singapore,**  
Doctor of Philosophy (Finance)

Aug 2025 — Present

**Indian Institute of Management, Ahmedabad**  
Master of Business Administration

Mar 2020

- Elected to the **Student Administrative Council (SAC)**, the student-run governing body at IIM Ahmedabad
- Served as **Media Secretary**; facilitated and oversaw interactions between student community and media outlets

**Indian Institute of Technology, Kharagpur**  
Bachelor of Technology: Electronics and Electrical Communications Engineering

Jul 2016

- Elected as **Governor, Technology Literary Society**, the official student-run publication at IIT Kharagpur
- Served as **Chief Editor** of monthly campus newsletters and annual student magazine

### WORKING PAPERS

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#### Local catastrophes and size anomaly in the price of US banking stocks

- The research aims to explain a size anomaly in the pricing of US bank stocks during local catastrophes and presents a model for investor-led bank runs

#### Natural disasters and a model for risk spillover in a banking network

- The research aims to build a dynamic model for risk spillover in a national banking network across geographical regions after natural disasters, using financial data from 38 Indian banks between 2005 and 2022

#### Benchmarking the spot price of gold in India using a Hidden Markov Model approach

- The research uses a Hidden Markov Model (HMM) approach to quantify the role of speculative price-setting in an oligopolistic market for gold

### COURSES TAKEN

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|---|--|
| • Advanced Topics in Monetary Economics | • Applied Econometrics                       |
| • Microeconomic Analysis                | • Empirical Asset Pricing and Microstructure |
| • Econometric Analysis                  | • Corporate Finance                          |

### TEACHING ASSISTANT

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|-----------------------------|--|
| • Financial Management      | • Entrepreneurial Finance                      |
| • Foundations of Investment | • Investment Analysis and Portfolio Management |

### RESEARCH EXPERIENCES

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**Misra Centre for Financial Markets and Economy**  
*Associate Researcher*

Ahmedabad  
Jan 2023 — Jun 2025

#### Policy Papers

- Macroprudential policies and household credit: Comparative analysis across BRICS and Developed Economies
- Future of Employment in India: Realising the Demographic Dividend in Industry 4.0
- The role of Global Financial Centres in the growth of NDF markets: A Case Study

#### Project-based Research

- **Ease of Doing Business in Indian states**
  - Mapped and analyzed data on 1.6 million Indian firms from nearly 20 databases
  - Designed survey of approx. 50,000 firms to gauge perception of administrative and regulatory environment across 9 parameters

## Additional Research Activity

- Reviewer for the **Journal of Quantitative Economics**

## G. S. Sanyal School of Telecommunications

*Undergraduate Researcher*

Kharagpur

Jan 2015 — Dec 2015

- Research paper on “Maximum Likelihood Estimation (MLE) of Carrier Frequency Offset in 5G GFDM Systems”
- Design and Implementation of Free Space Optical Communication Link for Onboard Data Handling (OBDAH) in satellites

## PROFESSIONAL EXPERIENCES

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### Associate, Global Markets Structuring, Nomura International Hong Kong

May 2020 — Jun 2022

- Structured hybrid products and quant indices for clients across APAC and managed a trading book worth \$200M
- Designed a portfolio invested across MSCI single factor indices based on a Business Cycle predictor using HMM
- Led the business of auto-callables and structured derivatives linked to ESG funds and indices with revenue worth \$3M
- Reduced turnaround time by 70% by building a chatbot for Korea and South-East Asia sales team that enabled quick browsing and indicative pricing of structured products.
- Built a global framework for real-time live pricing of callable bonds across APAC and EMEA to assist traders with risk management of global bond issuances

### Spring Intern, Nomura Singapore Limited

Apr 2019 — May 2019

- Interned with the Fixed Income derivatives desk and was awarded the Pre-Placement Offer for exemplary performance
- Developed a model to estimate the yield curve of Indonesian government bonds using Nelson-Siegel model
- Devised and implemented Foreign exchange (Fx) derivative trading strategy using market sentiment analysis

### Senior Associate, Commercial Banking, Capital One Financial Services

Feb 2016 — Mar 2018

- Worked in Commercial Banking in a Business Strategy and Risk function covering US markets
- Built a Random Forest algorithm on transaction data of 3.4 million US consumers that reduced 90% false flags in SARs
- Awarded the Best performer award in Q3, 2016, Q1, 2017 and Q3, 2017

### Summer Intern, Deutsche Bank CIB

May 2012 — Jul 2012

- Designed an allocation strategy across a portfolio of corporate bonds based on market risk estimation of Central and Eastern European, Middle-Eastern and African markets

## SCHOLASTIC ACHIEVEMENTS

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- Achieved **100-percentile** in Common Admission Test (CAT) among 170,000 applicants for admission into the top business schools in India (IIMs) Jan 2016
- All-India Rank of **565** in Joint Entrance Examination (IIT-JEE) among 500,000 applicants for admission into the top engineering schools in India (IITs) May 2009
- Awarded the **KVPY** scholarship by Government of India in 2009; national scholarship for top 1% of Senior Secondary School students in India granted through a national examination Mar 2009
- Awarded the **NTSE** scholarship by Government of India in 2007; national scholarship for the top 0.2% of Secondary School students in India granted through state-level and national examinations Jul 2007

## PUBLICATIONS

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- Co-authored the first edition of “Indian Art and Culture” by Nitin Singhanian, published by McGraw-Hill, 2016

## GRE & ENGLISH PROFICIENCY TESTS

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### GRE General Test: 335/340

Quant: 170/170 — Verbal: 165/170

Analytical writing: 4.5/6

Test date: November 2022

### TOEFL (internet-based Test: 109/120)

Listening: 30/30 — Reading: 29/30

Speaking: 22/30 — Writing: 28/30

Test date: November 2023