


SOUMITA ROY

PHD IN ECONOMICS | ETH ZÜRICH

 Zürich, Switzerland

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PROFILE

I am a doctoral researcher at ETH Zürich studying how innovation, digitalisation, and networks shape economic systems. My work combines large-scale data, econometrics, natural language processing, and machine learning to understand how ideas spread and how technology transforms firms and markets. I am particularly interested in the circular economy, research networks, and questions that connect data-driven research with real-world impact.

AREAS OF EXPERTISE

- **Stakeholder Engagement & Communication:** Experienced in managing stakeholder relationships, facilitating collaboration across teams, and delivering clear insights through reports, presentations, and data visualizations.
- **Data Collection and Processing:** Skilled in data collection and processing large datasets in R and Python.
- **Indicators and Dashboards Design:** Develop and track quantitative indicators and design interactive dashboards.
- **Policy Research:** Apply mixed methods and econometric tools to produce policy insights and analytical reports.
- **Innovation and Digital Economy Research:** Study innovation, digitalisation, networks, and knowledge diffusion using computational and empirical methods.

TECHNICAL SKILLS

- **Data Analytics, Statistical Analysis, and Simulation:** Stata, R, Python, Excel, SQL
- **Forecasting and Econometric Modeling:** Python, Stata, MATLAB
- **Methods:** Econometrics, Natural Language Processing, Machine Learning, Data Processing
- **Data Visualization, Dashboard Design, and Mapping:** Power BI, Tableau, ArcGIS
- **Reporting and Documentation:** Word, PowerPoint, Canva, LaTeX, Zotero
- **Version Control:** Git, GitHub

WORK EXPERIENCE

KOF

KOF Swiss Economic Institute, ETH Zürich

Zurich, Switzerland

SCIENTIFIC RESEARCHER

Sept. 2025 – Present

- Conduct research on innovation, digitalisation, and knowledge networks in economic systems.
- Use large datasets, econometrics, NLP, and machine learning for empirical research.
- Build and analyse patent and firm-level datasets from multiple structured and unstructured sources.
- Study the diffusion of ideas and the role of technology in shaping firms and markets.
- Contribute to research presentations, academic writing, and ongoing project work.



International Air Transport Association (IATA)

Geneva, Switzerland

MARKET RESEARCHER, SURVEY SOLUTIONS

Apr. 2024 – Aug. 2025

- Designed and implemented online surveys for targeted market analysis.
- Analysed survey data using R and Excel, and built Power BI dashboards.
- Presented findings and tailored survey solutions to aviation clients.
- Managed survey projects for major clients and tight deadlines.



Cartier Philanthropy

PROGRAMME ANALYST

Geneva, Switzerland

Sept. 2023 – Mar. 2024

- Conducted M&E for 22 non-profit partners across programmes in 40 countries.
- Used R and Tableau to analyse data and create visualisations for programme evaluation.
- Prepared due diligence reports using logframes, Theory of Change, and tracking tools.
- Assessed partner performance, financial health, and long-term programme sustainability.



UN Trade & Development (UNCTAD)

RESEARCH INTERN – SCIENCE, TECHNOLOGY, & INNOVATION POLICY

Geneva, Switzerland

June. 2023 – Aug. 2023

- Conducted research on frontier technologies through case studies and knowledge papers.
- Evaluated innovation policies in developing countries using economic research and data analysis.
- Contributed to 2 analytical policy papers with a multidisciplinary team.
- Prepared meeting and conference notes and supported project coordination.



Chegg

SUBJECT MATTER EXPERT

Kolkata, India

Jan. 2021 – July. 2022

- Developed study materials and taught Economics, Statistics, and Econometrics.
- Guided students in applying Stata for statistical and econometric analysis in social science.



The Bengal Chamber of Commerce & Industry (BCC&I)

RESEARCH ASSISTANT

Kolkata, India

July. 2020 – Sept. 2020

- Prepared analytical reports on Trade Opportunities in West Bengal; enhanced trade facilitation for partner organizations through streamlined procedures and market entry strategies.
- Analyzed trade data using Stata and presented findings in PowerPoint during team meetings.
- Supported administrative tasks for stakeholder meetings and annual conference preparations.



Xelpmoc Design and Tech Limited

FIELD INVESTIGATOR

Kolkata, India

Mar. 2018 – June. 2018

- Conducted an online survey with 200 respondents through Qualtrics.
- Collected and processed survey data on key investment behavior and trends.
- Used Excel and Stata for data processing and quantitative analysis to compile a survey report.

EDUCATION



ETH Zürich, D-MTEC

Zürich, Switzerland

D MTEC

PHD IN ECONOMICS

Sept. 2025 – Dec. 2029

Research Focus: Innovation, digitalisation, networks, and computational methods in economics.



Geneva Graduate Institute (IHEID)

Geneva, Switzerland

MASTER IN INTERNATIONAL ECONOMICS

Aug. 2022 – July. 2024

Specialization: International Trade and Advanced Econometrics

- GPA over Coursework: 5.52/6
- Thesis: The Impact of Chinese Development Finance on Foreign Direct Investment and Forest Cover: Evidence from Asia.
- Relevant Courses: International Trade, Econometrics, Industrial Organization.



Jadavpur University

MASTER OF ARTS IN ECONOMICS

Kolkata, India

Aug. 2019 – July. 2021

- GPA over Coursework: 9.81/10
- Relevant Courses: International Trade, Development Economics, Trade and Development, Econometric Modeling with Stata, Microeconomics, Open Economy Macroeconomics.

Jadavpur University

BACHELOR OF ARTS IN ECONOMICS

Kolkata, India

Aug. 2016 – July. 2019

- GPA over Coursework: 9.49/10
- Final Year Project: Determinants of Ease of Living in Kolkata

PUBLICATIONS

- **Report:** [Moving Fast with Frontier Technologies](#), January 2023, *Industrial Analytics Platform (UNIDO)*, with Henrique Pinto Coelho, Fabianna Bacil, and Clovis Freire.
- **Conference Paper:** [Global Cooperation in Science, Technology, and Innovation for Development](#), November 2023, *UN Commission on Science and Technology for Development, Inter-sessional Panel 2023-2024*, prepared by UNCTAD Secretariat.

LANGUAGES

- English (Fluent), French (Intermediate), German (Beginner), Hindi (Fluent), Bengali (Native)

SELECTED AWARDS & SCHOLARSHIPS

- 2023. Awarded the Hans Wilsdorf Scholarship, covering tuition and living expenses for my Master's studies in Geneva, Switzerland.
- 2022. Awarded the Charpak Master Scholarship, France; humbly declined to pursue studies in Switzerland.
- 2017. Winner of "Analyze This!", a national competition at the Young Economist Students' Meet, Jadavpur University, India.
- 2016. Best delegate at the Model United Nations conference, KIIT, India.

SELECTED SERVICES & OUTREACH

- 2018–2019. Member of Organizing Committee, Young Economist Students' Meet, Jadavpur University.
- 2017. Head of Public Relations Outreach, Model United Nations, Jadavpur University.
- 2016–2017. Tutor for Underprivileged Children, Child Rights and You (NGO), Kolkata, India.
- 2013–2014. School Head Captain, Carmel High School, Kolkata, India.

EXTRACURRICULARS & HOBBIES

- Classically trained Kathak dancer, with performances in Kolkata, India, and Geneva, Switzerland.
- Passionate about sports, particularly tennis, swimming, and alpine skiing.
- Enjoy traveling and exploring diverse cultures and cuisines.