Aditya Srivastava

Paris, France

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Research Interests

- Financial Economics, Information Economics, Financial Intermediation, Banking and Financial Stability, Microeconomic Theory.

Education

Institut Polytechnique de Paris – HEC Paris **Sep. 2024 – Sep. 2026**
Master in Economics, Très Bien (16.3/20) *Paris, France*

- **Thesis:** *Regulatory Communication, Investor Networks & Bank Runs* (18/20). Developed a theoretical framework examining how regulatory communication and investor networks shape coordination under information frictions, in collaboration with Deutsche Bundesbank Research Centre.
- **Supervisors:** Kartik Anand (Deutsche Bundesbank), Jean-Édouard Colliard (HEC Paris)
- *Selected Coursework:* Information and Expectations in Macroeconomics, Theory of Industrial Organization, Banking and Financial Intermediation, Asset Pricing, Macroeconometrics and Machine Learning, Machine Learning for Econometrics.

The London School of Economics and Political Science **Sep. 2023 – Sep. 2024**
M.Sc. Applicable Mathematics, Merit *London, United Kingdom*

- **Thesis:** *Rationally Inattentive Acquisition of Information in Dynamic Global Games*
- **Supervisor:** Olivier Gossner (LSE, École Polytechnique)
- *Selected Coursework:* Auctions and Game Theory, Mathematical Game Theory, Continuous Time Optimisation, Stochastic Processes, Machine Learning in Financial Mathematics.

Shaheed Bhagat Singh College, University of Delhi **Nov. 2020 – Jul. 2023**
B.Sc. (Hons.) Mathematics, CGPA: 8.99/10 *New Delhi, India*

- College Silver Medallist; graduated with First Division with High Distinction.
- *Selected Coursework:* Real Analysis, Probability Theory and Statistics, Multivariate Calculus, Linear Algebra, Metric Spaces, Numerical Analysis, Differential Equations, Mathematical Finance.

Research Experience

Finance for Development Lab – CEPREMAP, Paris School of Economics **Sep. 2026 – Present**
Senior Research Analyst *Paris, France*

- Conducting econometric analysis of sovereign debt distress using macroeconomic and financial data.
- Reproducing and extending the Lab's predictive framework, with planned extensions using machine-learning and Mixture-of-Experts approaches.
- Contributed to the organisation of the FDL/IPD Annual Conference at Columbia University's Paris centre, bringing together academics and senior policymakers to discuss sovereign debt, development finance, and global economic fragmentation.

Deutsche Bundesbank – Research Centre **Mar. 2026 – Sep. 2026**
Research Intern *Frankfurt, Germany*

- Developed two global-games models examining regulatory communication, investor networks, and financial coordination.
- Characterized threshold equilibria and analyzed how coarse public disclosure and network-based information shape higher-order beliefs and strategic uncertainty.

INSEAD **Apr. 2025 – Present**
Research and Teaching Assistant *Fontainebleau, France*

- Conducted theoretical research under Professor Timothy Van Zandt, extending the Le Châtelier principle to stochastic environments using lattice-theoretic methods.
- Supported MBA and MiM courses in Applied Microeconomics and Industrial Organization through teaching assistance.

École Polytechnique – ENSAE – CREST **Sep. 2024 – Apr. 2025**
Research Assistant to Prof. Olivier Gossner *Paris, France*

- Studied the comparison of information structures, building on Blackwell's sufficiency and Lehmann's precision orderings.
- Analyzed monotone quasi-garbling and its implications for informativeness in multidimensional decision problems.

United Nations Conference on Trade and Development (UNCTAD) **Aug. 2021 – Sep. 2021**
Policy Research Intern *New Delhi, India*

- Analyzed over 100,000 firm-level observations using quasi-experimental methods to evaluate policies supporting small and medium-sized enterprises (SMEs).
- Synthesized empirical findings into policy briefs and research presentations.

Awards and Distinctions

- **Grand Prix du Stage de Recherche**, École Polytechnique (2025) – Awarded for research extending the Le Châtelier principle to stochastic environments.
- **ERC-funded Research Fellowship**, École Polytechnique (2024–2025).
- **Rajiv Gandhi Scholarship**, Government of Rajasthan – Full funding for postgraduate studies at LSE.

Academic Engagement

London Mathematical Society (LMS) **Sep. 2023 – Sep. 2024**
Associate (Nominated by Prof. Jan van den Heuvel, LSE) *London, United Kingdom*

- Participated in Society meetings, mathematical research lectures and academic workshops, engaging with researchers across mathematical disciplines.
- Contributed to academic newsletter preparation and dissemination of research updates, faculty activities and upcoming events.

Academic Workshops and Conferences

- **Oxford–Warwick SIAM Conference** (2024) – Research poster presentation.
- **Transatlantic Workshop**, HEC Paris and Northwestern University (2024).
- **Workshop on Information Economics**, Bank of England and LSE (2024).
- **J.M. Keynes Fellowship Fund Lectures**, University of Cambridge (2024).
- **Finance Symposium**, INSEAD (2025).

Technical Skills

- **Programming:** Python (NumPy, pandas, scikit-learn, statsmodels), R, Stata, MATLAB
- **Econometric Methods:** Panel data methods, fixed-effects models, quasi-experimental methods, cross-validation
- **Machine Learning:** Random Forest, XGBoost, Lasso, logistic regression
- **Tools:** Bloomberg Terminal, Git/GitHub, LaTeX, Microsoft Excel
- **Languages:** English (Fluent), Hindi (Native), French (Basic)

Leadership and Extracurricular Activities

- **President, Cultural Council**, Shaheed Bhagat Singh College, University of Delhi – Elected student representative responsible for coordinating cultural activities and events.
- **Chair, Quizzing and Debating Society**, Shaheed Bhagat Singh College, University of Delhi – Elected to lead the society and organise inter-college competitions.
- **Cultural Head Boy**, Rukmani Birla Modern High School – Elected student leadership position.