

SOURJYAMOY BARMAN

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EDUCATION

Dartmouth College, Hanover, NH

September 2022 – May 2026

Bachelor of Arts, Major in Applied Math; Minor in Economics (Dean's Honor List)

GPA 3.76/4.0

- **Coursework:** Game Theory, Linear Models, Probability, Linear Algebra, Combinatorics, Honors Algebra
- **Activities:** Quant Finance Club (Co-Founder), Dartmouth Energy Alliance, The Dartmouth (Finance & Sales Team), Neukom Scholar at Thayer Engineering, Great Issues Scholar, Undergraduate Finance Committee

Finance Coursework/Programs: Accounting (Tuck School of Business), Microeconomics (Dartmouth), MS Pathways into Sales & Trading, Goldman Sachs Virtual Insight Series, Fundamentals of Quantitative Modeling (Wharton)

WORK EXPERIENCE

Cambridge Zero, University of Cambridge

October 2023 – Present

Environmental Data Analyst (Visiting Scholar)

- Design a game-theoretic model for climate diplomacy project with 65+ countries, 8 strategies, & 15K+ datasets
- Employ statistical tools to unveil trends & correlations in decade-long carbon emissions & climate action
- Perform python EDA for carbon markets, achieving 40% faster processing and 90% data integrity

Undergraduate Finance Committee, Dartmouth College

April 2024 – June 2024

Board Member (Student Representative)

- Managed & Allocated \$1.5mm budget for FY 2024-25 to support 50+ student organizations
- Led budget reviews & approvals, optimizing allocation & increasing funding by \$35K+ to enhance student engagement
- Collaborated with 9 organizational representatives, improving budget accuracy by 10% through fiscal accountability

Department of Physics, Dartmouth College

September 2023 – Present

Independent Undergraduate Researcher

- Lead asset management research, reducing portfolio optimization time by 30%, & developing streamlined strategies
- Develop & apply quantum algorithms via Braket SDK, outperforming QUBO solvers by 21%, enhancing precision
- Optimize portfolio diversification using quantum computing, achieving 15% growth and 12% ROI

Supreme Court of India

July 2023 – September 2023

Summer Legal Analyst

- Led quantitative analysis for cases worth ₹45mm+ to extract case insights from legal & financial datasets
- Applied analytical thinking to brief 6+ complex cases, e.g: homicides, financial crimes, & class actions
- Showcased quick, strategic decisions in intense settings with senior advocates, resulting in 20% faster case resolution

LEADERSHIP & SERVICE

Dartmouth Quant Finance Club, Hanover, US

September 2023 – Present

Co-Founder & Vice-President/Treasurer

- Expand club membership to 60+ & cultivate collaborative relationships with peers at trading firms
- Organize events like poker nights & market-making games, enhancing members' quantitative skills
- Initiate expert-led seminars, providing resources & insights for student growth & advancement

Research Convention, Chandigarh, India

April 2021 – July 2022

Founder & CFO

- Developed India's pioneering virtual research mentoring platform - a team of 70+ ambassadors & 50+ mentors
- Managed business operations, securing Red Bull sponsorships, & facilitating 20+ student research paper publications

AWARDS & ACHIEVEMENTS

1. The *Randolph & Christine Burnley Bucklin Prize* 2023 in Applied Math & academic citation for excellence awarded by the Math Faculty at Dartmouth for authoring an original paper; nominated to *Nature*
2. Received Abu Haider Family Scholarship that covers 100% of my attendance costs at Dartmouth
3. Authored & published a book on '*Foundations of Quantum Mechanics*' on Amazon as a high-schooler
4. Devised a sustainable initiative in collaboration with the Forest department of State Government & key stakeholders to proactively address & mitigate the risks associated with Human-Elephant-Conflict in targeted areas of Northeast India

SKILLS

Languages: English, Hindi, Urdu, Bengali

Tools: Python, Excel, Tableau, MATLAB, Mathematica, PowerPoint

Additional Skills: Financial Research & Modeling, Data Analysis & Visualization, Accounting, Market Analysis, Pitching

Hobbies: 11+ years & 8+ years of professional experience in fine arts & Indian classical instrument respectively; can sketch anyone's portrait in <15 mins; produced & acted in a short film