

Anubhav Sharma

Education

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| University of Pennsylvania, Philadelphia PA Selected Coursework: Machine Learning | MSE Computer and Information Science | Expected May 2025 |
| Haverford College, Haverford PA Cumulative GPA: 3.87/4.00 Relevant Coursework: Quantitative Finance, Intro to Data Structures, Linear Optimization, Principles of Programming Languages, Analysis II, Multivariable Calculus, Linear Algebra, Financial Accounting, Research in Astrophysics | BS Computer Science, BS Mathematics | Expected May 2023 |
| King's College London, London, UK Cumulative GPA: 4.00/4.00 Selected Coursework: Cryptography, Practical Experiences in Programming, Foundations of Computing II, Algebra | Study Abroad | Dec 2021 |
| Akuna Capital University, Chicago IL Successfully completed an online course covering the fundamentals of options market making in practical setting. | Akuna Capital Options 101 | Jan 2021 |

Experience

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| <i>Technologist Intern – Quantitative Research</i> , Morningstar Inc., Chicago IL Work with the Associate Director of Quantitative Research in the Portfolio Analytics division. Retrieve macroeconomic data from government databases using public APIs and perform data wrangling. Implement and optimize techniques like principal component analysis, regression, and Factor-augmented Vector autoregression (FAVAR) in Python to research the effects of macroeconomic fluctuations on prices. Analyze the evolution of macroeconomic variables in response to macroeconomic and sectoral shocks by graphing impulse response functions— specifically in current context, the effects of the shock to the Federal Funds Rate. | June 2022 – present |
| <i>Researcher</i> , Prof. Karen Masters, Department of Physics and Astronomy, Haverford College First authored research paper on HI rich low star forming galaxies submitted to Monthly Notices of Royal Astronomical Society (MNRAS)— a leading astronomy peer-reviewed scientific journal. Delivered scientific posters/ presentations at Sloan Digital Sky Survey Collaboration 2020, Keck Northeast Astronomy Consortium Symposium 2020, Month of MaNGA 2020, and 237 th American Astronomical Society Meeting 2021. | Dec 2019 – July 2022 |
| <i>Computer Science Teaching Assistant</i> , Department of Computer Science, Haverford College Held office hours to explain programming concepts, data structures, assembly language, and computer architecture. Graded programming assignments and provided feedback on algorithm, correctness, and design. <i>CMSC 240: Principles of Computer Organization</i> , Prof. John Dougherty <i>CMSC 106: Introduction to Data Structures</i> , Prof. Rajesh Kumar <i>CMSC 105: Introduction to Computer Science</i> , Prof. David Wonnacott | Aug 2020 – May 2022 Jan 2022 – May 2022 Feb 2021 – May 2021 Aug 2020 – Dec 2020 |
| <i>Researcher</i> , Prof. Rob Manning, Department of Mathematics, Haverford College Researched computations of energy-minimizing self-contact configurations of elastic filaments using MATLAB. | June 2021 – Aug 2021 |

Projects

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| <i>Hungarian algorithm</i> Coded the Hungarian Algorithm from bottom up to solve optimization and assignment problems. | May 2021 |
| <i>Reconnect</i> , Major League Hacking (MLH) Local Hack Day 2019 Developed an interactive platform that helps people with impaired hearing to practice speaking. Won the Best Use of Microsoft Azure Award at MLH and the first prize at Swarthmore College. | Jan 2020 |

Leadership

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| <i>Officer of Academics</i> , Student Council, Haverford College Elected by the student body of ~1500 to voice academic concerns to academic departments, faculty, and the student council. Serve as student representative in faculty meetings, Educational Policy Committee, and Committee of College Honors. | May 2022 – present |
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Honors and Awards

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| <i>Richard J. Botti Memorial Scholarship 2020-2021 and 2021-2022</i> , Haverford College Twice recipient of endowed scholarship awarded to student who is well-rounded both academically and socially and who exhibit entrepreneurship and leadership. | 2021 and 2022 |
| <i>11th International Olympiad on Astronomy and Astrophysics</i> , Phuket, Thailand Winner of National Astronomical Olympiad 2017 and represented Nepal in IOAA 2017. | 2017 |

Skills

Technical: Python, C++, Java, Racket, Scala, MATLAB, HTML, CSS, WordPress.