

Amitav Narayan

(+1) 609-480-0794 | amitavnarayan2@gmail.com

EDUCATION

University of Oxford Oxford, England
Bachelor of Arts in Mathematics, University College *October 2023 – June 2024 (Unfinished)*

- First-year coursework: Probability, Statistics and Data Analysis, Linear Algebra, Real Analysis, Ordinary Differential Equations, Fourier Series and Partial Differential Equations, Computational Mathematics, Dynamics, Groups and Group Actions, Multivariable Calculus.
- Activities: Univ. Maths and Computer Science Society, Invariants Society, Poker Society.

EXPERIENCE

University of Oxford Oxford, England
Research Intern, Department of Economics *November 2022 - February 2023*

Worked on a project investigating policy counterfactuals in macroeconomics. Conducted literature reviews on use of various Lucas critique-robust models along with empirical evidence from time series and policy shocks to examine different economic scenarios.

University of Tennessee, Knoxville Remote
Research Intern, Department of Mathematics *June 2022 - August 2022*

Worked on a project investigating Hadamard matrices of different sizes, with applications in signal processing and quantum information theory. Used MATLAB to program configurations and search for new matrices, and reviewed literature from linear algebra, abstract algebra, and combinatorics.

PROJECTS

Blackjack Simulator

Programmed, using Python, a chat-based version of the casino game. Included features like card-counting to recommend best choice, as well as splitting and doubling-down.

SKILLS, ACTIVITIES & INTERESTS

Skills: Proficient in Python, Java, and HTML/CSS/Javascript. Basic knowledge of MATLAB and Machine Learning frameworks (Pytorch, TensorFlow, Scikit-Learn) through online courses.

Languages: Native proficiency in English; Conversational Proficiency in German.

Honors/Awards: National Merit Finalist (top 0.1% of ~1.6 million students), American Invitational Mathematics Examination Qualifier (top 5% of ~30,000 students), Meta Hacker Cup Round 2 Qualifier (top 15% of ~28,000 students and professionals), ACT Score 36/36.