Agustin Esteva

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Education

University of Chicago <div align="right">Chicago, IL</div>
BS in Mathematics, BA in Economics | GPA: 3.88/4.00 *Sep 2023 – May 2027*
Relevant Coursework: Honors Analysis in $\mathbb{R}^n$ | Markov Chains/Martingales/Brownian Motion | Econometrics | Intro to Computer Science I-II | Abstract Linear Algebra | Complex Analysis | Functional Analysis | Mathematical Logic | Graduate Game Theory | Honors Microeconomics
University Advanced Scholars: Selective scholarship for a five-year accelerated track to a Master's degree at UChicago

Experience

Research Assistant in Political Economics <div align="right">Chicago, IL</div>
Economics Research Assistant *Jun 2025 – Present*
- Worked under Nobel-laureate Dr. James Robinson to study the effects of policy on Rwanda's 'miracle economy' by analyzing satellite and governmental data using R, STATA, and machine learning
- Researched how social connectedness relates to productivity of government programs through advanced statistical and econometric analysis
- Developed an entailment algorithm using Python and model logic in order to provide a low cost solution to leverage the use of LLMs in the project

UChicago Math Research Experience for Undergraduates <div align="right">Chicago, IL</div>
Pure Mathematics Research *Jun 2024 – Nov 2025*
- Studied probability, real and complex analysis, combinatorics, algebra, financial mathematics, and stochastic calculus under UChicago professors and graduate students
- Researched, gave talks, and published a 20-page paper titled Random Curves and Schramm-Loewner Evolutions under the guidance of Professor Stephen Yearwood, with special emphasis on universality properties
- Published a 25-page expository paper titled Measure Theory, Stochastic Calculus, and the Black-Scholes-Merton Model on the measure theoretic derivation of the Black-Scholes formula using stochastic calculus and Girsanov's theorem

Speer Mathnasium <div align="right">San Antonio, TX</div>
Math Instructor *Jun 2022 – May 2023*
- Graded over 100 students' work, assignments, and performance while simultaneously providing instruction
- Balanced multiple students at once to give personalized instruction on subjects ranging from algebra to calculus

Activities & Leadership

University of Chicago Mathematics Department <div align="right">Chicago, IL</div>
Grader *Aug 2024 – Jun 2025*
- Responsible for grading and providing feedback on theoretical proofs for calculus problems for the UChicago Mathematics Department
- Graded 60+ students' work every week, and provided instructors with useful feedback on the difficulty of the course

Rocketry Project <div align="right">San Antonio, TX</div>
Project Manager *Aug 2019 – Jun 2023*
- Led the design and fabrication of a vehicle used to take a scientific payload 50,000 feet after approval and review of a mathematical flight profile presented to NASA flight engineers
- Built all parts of the 300-lbs vehicle using in-house industrial machines after designing them on AutoCAD
- Launched in June 2023 at White Sands Missile Testing Range (New Mexico) with an apogee of 23,000 feet

Joint Science Technology Institute <div align="right">Chicago, IL</div>
Materials Science Researcher *Summer 2022*
- Data analyst for Los Alamos National Laboratories, the Defense Threat Reduction Agency, and the University of New Mexico
- Studied materials science applications in nuclear engineering by analyzing data of Helium bubbling in Palladium samples using machine learning programs created with Python
- Presented findings to researchers on the application of machine learning on data analysis for nuclear fusion research

Skills: Stochastic Calculus | Python | Excel | AutoCAD | LaTex | STATA | R Studio | Industrial Machines (Mill, Lathe, Drill, etc. . .)

Honors/Awards: Dean's List | University Advanced Scholar (Half-Ride Scholarship) | Hispanic Scholarship Fund Scholar

Interests: Bouldering | Math | Cello | Tennis | ▦ Movies | Spikeball