Ethan K. Sun

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Education

Dartmouth College — Hanover, NH
Bachelor of Arts - Economics Major Candidate on Honors Track — *September 2022 - Present*

- GPA: 3.72 / 4.00
- Brother of Psi Epsilon Chapter of Zeta Psi

Tacoma Community College — Tacoma, WA
Associate of Arts - Mathematics Specialization with High Honors — *September 2020 - June 2022*

- GPA: 3.98 / 4.00
- SAT: 1580 (Math: 800, Reading: 780). SAT Subject Test Math Level II: 800
- President of Phi Theta Kappa International Honors Society
- Running Start dual-enrollment program. Earned Associate of Arts degree in mathematics during high school

Experience

Incoming Private Equity Analyst Intern — Hong Kong SAR, China
Nexus Point — *Summer 2025*

- Expected to report directly to associate and vice president and assist a small team with finding companies within a given sector that show growth potential, creating forecasting models to project cash flow, and present my findings for senior members to analyze

Associate Editor for the Dartmouth Law Journal — Hanover, NH
Dartmouth College — *April 2025 - Present*

- Review manuscripts submitted to the Dartmouth Law Journal and edit to ensure proper citation in accordance with the Bluebook

President of Dartmouth Economic Research Scholars — Hanover, NH
Department of Economics at Dartmouth College — *April 2025 - Present*

- Serve as a liaison between DERS students, faculty, and alumni. Organize and facilitate meetings, coordinate events, and secure funding for panels, colloquiums, workshops, and distinguished guest lectures to promote undergraduate economic research and connect students with professors and professionals

Economics Research Assistant — Hanover, NH
Principal Investigator - Erzo F.P. Luttmer — *September 2024 - March 2025*

- Awarded Dartmouth Economic Research Scholar and James O. Freedman Presidential Scholar with $3,200 grant for this role. Worked on The Dartmouth Professor in Economics Erzo F.P. Luttmer's team to value human lives based on respondents' choice between vignettes of life stories where life-time income and age of death are randomized
- Created literature reviews, tested survey data to ensure randomizations were implemented correctly and that respondent responses were coded accurately, produced high-quality exhibits based on data analyzed by Professor Luttmer or other senior members of the research team, and helped proofread, edit, and format the paper

Economics Teaching Assistant — Hanover, NH
Faculty - Maura Doyle, Diego Ramos-Toro — *Fall 2024, Spring 2025*

- ECON 21 (Microeconomics) - Held three hours of weekly office hours for a class of 60 students to ask questions about the course material
- ECON 01 (The Price System: Analysis, Problems, and Policies) - Graded problem sets, exams, and held weekly office hours for a class of 90 students to ask questions about the course material

Music Teaching Assistant   **Hanover, NH**
Faculty - Michael Zsoldos   *Fall 2023, Spring 2024*

- MUS 01 (Beginning Music Theory) Teaching Assistant - Held weekly piano lessons for scales, dynamics, chords, theory, and a simple piece and held weekly office hours for a class of 11 students to ask questions about the course material

Pharmaceutical Engineering Research Assistant   **Hanover, NH**
Principal Investigator - Xin Qi   *March 2023 - November 2023*

- Awarded URAD Scholar and William H. Neukom 1964 Scholar with $2,400 grant ($1,200 each at the time of award) for this role. Worked in Assistant Professor Xin Qi's Qi Lab at Dartmouth and collaborated with pharmaceutical companies to develop antibodies to target Interleukin-33, a protein in the IL-1 family of cytokines known to be associated with various inflammatory and allergic conditions
- Analyzed data by utilizing RCSB, VMD, Pymol, and AlphaFold to visualize and analyze the structure of antibodies targeting Interleukin-33, then used GROMACS, Slurm, and Python to perform molecular dynamic simulations for data analysis and studying of their properties and binding efficacy to Interleukin-33

Publications & Presentations

- Sun, Ethan, Long-Term Effects of the ACA Medicaid Expansions (March 15, 2025). Available at SSRN: https://ssrn.com/abstract=5197610 or http://dx.doi.org/10.2139/ssrn.5197610. [pdf]
- Sun, Alan, **Ethan Sun**, and Warren Shepard. "Algorithmic Phase Transitions in Large Language Models: A Mechanistic Case Study of Arithmetic." Paper presented at ATTRIB @ NeurIPS 2024 workshop, Vancouver, BC, Canada, December 14th, 2024. [pdf]

Honors & Awards

James O. Freedman Presidential Scholar   **Hanover, NH**
Dartmouth College Undergraduate Advising and Research   *May 2024*

- Prestigious, GPA-based two-term undergraduate research program with $3,200 grant

Dartmouth Economic Research Scholar   **Hanover, NH**
Dartmouth College Department of Economics   *March 2024*

- Competitive program designed to support Presidential Scholars who are majoring in economics and provides additional mentoring and support to students with strong potential in economics research

William H. Neukom 1964 Scholar   **Hanover, NH**
The Neukom Institute for Computational Science   *August 2023*

- Selective program that provides a $1,600 grant to enrolled undergraduates engaged in faculty-advised research in the development of novel computational techniques as well as the application of computational methods to problems in the Sciences, Social Sciences, Humanities, and the Arts

Undergraduate Research Assistantships at Dartmouth Scholar   **Hanover, NH**
Dartmouth College Undergraduate Advising and Research   *March 2023*

- Competitive program that provides a $1,600 grant intended to introduce students to research with priority given to sophomores and juniors (received award as a freshman)

Citations for Meritorious Performance   **Hanover, NH**
Dartmouth College   *Spring 2023, Summer 2024*

- Probability, Research Associate Linh Huynh
- Introduction to Programming and Computation, Albert Bradley 1915 Third Century Professor in Computer Science Andrew Campbell
- Italian Briefs, Dartmouth Faculty Michael Wyatt

Skills

- Python, Stata, LaTeX, Slurm, Excel, Word