

# Henry Josephson

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## EDUCATION

### **The University of Chicago**

Chicago, IL, Class of 2025

- Double major: Data Science B.S. and Philosophy B.A. (intensive track, ethics focus).
- 3.99/4.0 GPA, Dean's list every year.
- Robert Maynard Hutchins Scholar, Georgiana Simpson Scholar in the Humanities, Enrico Fermi Scholar in the Physical Sciences, all for academic excellence. Elected to Phi Beta Kappa after third year.

## WORK, RESEARCH, AND LEADERSHIP EXPERIENCE

### **Office of Alex Bores, New York State Assemblyman: *Legislative Aide***

Summer 2023

- Researched and drafted legislation on emerging technology (e-bikes, biotech, AI), communicated, collaborated, and liaised with constituents, advocacy groups, and regulatory agencies, organized community outreach.
- Demonstrated the risks of deepfake technology by fine-tuning a state-of-the-art voice cloning model on Asm. Bores' voice with his full consent, raising awareness of the heightened misinformation risk public figures face.
- Independently built a comprehensive statistical model with open-source data analyzing e-bike collision trends over a three-year period in response to the assemblymember's expressed need for quantitative risk assessment.
- Data I uncovered during this self-driven research led to a bill ([A08450](#)) that was signed into law in July 2024.
- Produced an in-depth report with statistics and policy recommendations ([pdf](#)) that was covered by multiple networks ([FOX5NY](#), [NY1](#)), demonstrating impact and public interest in the findings.

### **University of Chicago, XLab: *Research Manager, Summer Research Fellow***

Summer 2022, October 2024-present

- Currently lead the AI policy working group, soliciting research proposals from industry and policymakers, then leading and coordinating two small groups of students as they produce deliverables to answer those questions.
- In summer '22, Researched whether potential California regulations on AI can *de facto* apply outside CA. Mentored by Cullen O'Keefe, then at OpenAI, now the Institute for Law & AI's Director of Research.
- My paper *A California Effect for Artificial Intelligence* ([Google Doc](#)) won a prize in the Centre for Governance of Artificial Intelligence's 2022 Student Essay Contest.

### **University of Chicago, Harris School of Public Policy: *Research & Teaching Assistant***

February 2024 – present

- TA: first undergrad chosen to TA [AI For Public Policy](#), blending mathematical understanding with practical.
- RA: Work on a team of 4 to analyze whether gunshot detection technology decreases the rate at which people die from gunshot wounds — NBER working paper forthcoming — with media coverage in the [Chicago Tribune](#).
- RA: Led ML analysis of prison therapy recordings using NLP and time series methods to improve mental health interventions for incarcerated individuals, supporting criminal justice research by Prof. Jens Ludwig.

### **University of Chicago, The College: *Teaching Assistant***

September 2023 – June 2024

- First undergraduate TA in the history of the Philosophy department, helping Prof. Ray Briggs teach Bayesian Epistemology, exploring the advantages and issues of representing knowledge with numerical degrees of belief.
- Selected as TA from >600 students in Data Sci. and Statistics depts. to TA Intro to Data Science (4x) and Computer Sci. for Data Sci. Noted for my ability to introduce complex topics to smart but uninitiated students.

### **Morningstar: *Machine Learning Intern***

September 2024 – present

- Working for Morningstar, a financial analysis firm, to cheaply improve model performance on low-data tasks with state-of-the-art techniques like low-rank adaptation and p-tuning, built a bespoke combination of the two.
- Built synthetic data generation and filtration pipeline, achieving performance comparable to an all-original dataset with a 90%-synthetic dataset..

### **The New York Times: *crossword constructor*; The Chicago Maroon: *Head Crossword Editor***

2022 – present

- Build crossword puzzles for the *New York Times*, where they've been solved by >2,500,000 people. [Top critics chose a puzzle of mine](#) as one of 2024's best puzzles.
- Lead a team of 6 to create weekly puzzles for the *Chicago Maroon's* print and online editions.
- Founded, emceed, and created puzzles for annual crossword tournaments, attracting 350+ solvers over 3 years.
- Read media coverage of the UChicago crossword community I helped build [here](#).

## SKILLS & INTERESTS.

Blogging at [henryjosephson.com](http://henryjosephson.com), building [State Legislator Effectiveness Dashboard](#) to quantify legislators' ability to get their bills enacted • Fluent in French, SQL, Python, AWS • Replicating ML papers • Competitive crossword solving