

EDUCATION

The University of Chicago, Chicago, IL

Bachelor of Science in Environmental Science & Bachelor of Arts in Economics (Data Science Specialization) - Expected June 2028

GPA: 3.4 | **Clubs:** Midway Ventures Senior Partner; Tech Review Writer; Energy & Climate Club Member; Former UC Varsity Wrestler

Awards: Winner - 2026 UC Climate Case Competition; 3rd - Midway Ideathon; Honorable Mention (45/9,000) - NYT Narrative Essay Contest

RESEARCH

Enterprise Neurosystems, Bay Area, CA

April 2026 – Present

Researcher - ML For Ecosystem Analysis

- Build edge sensor stacks integrating MegaDetector for on-device image parsing for real-time species detection.
- Developed back-end species ID and health/activity-status indicators using a custom-tuned SpeciesNet model.
- Designing a novel heat-map vision tool integration to back-end analysis that surfaces animal activity and health.

Antaeus Group, University of Chicago, IL

May 2026 – Present

Founder & Lead Researcher - Actionable Climate-Economics Insights

- Founded and leading a research group of UChicago Master's and undergraduate students building an economic model that prices in climate change and natural capital.
- Adjust conventional economic models to show the need for policy action and investment.
- Directing a 30-year Chicago heat-cost projection, layering climate simulations with hot-day distribution with economic cost models based on mortality and productivity loss.

Existential Risk Laboratory, University of Chicago, IL

March - June 2026

Researcher - Nuclear Winter Mitigation Strategies

- Co-authored a report assessing the existential risk of nuclear winter and evaluating mitigation strategies.
- Derived energy-efficiency calculations and models to assess feasibility and return on infrastructure investment.
- Developed two intervention pathways — electrostatic coagulation and endothermic photodissociation — to reduce aerosol forcing following large-scale nuclear conflict.

Climate Systems Engineering Initiative, University of Chicago, IL

October 2025 - June 2026

Researcher - Climate Forcing Modeling, Advisor: Jim Franke

- Conducted Python-based modeling of stratospheric aerosol injection, projecting temperature and precipitation anomalies and regional climate risk.
- Modeled radiative forcing and climate responses to assess regional extreme-weather risk.
- Evaluated feasibility, risk profiles, and governance options for climate-intervention technologies.

WORK/STARTUP EXPERIENCE

Converge Strategies, Boston, MA

April - August 2025

Energy Consulting Fellow

- Led research for a Vehicle-to-Everything (V2X) pilot recommendation, identifying efficiency gaps, use-case barriers, and battery constraints in a 15-page strategic report.
- Analyzed geothermal economics and renewable-energy resilience for military installations for internal research.
- Conducted developer interviews and community-benefit-agreement research, synthesizing findings into client-ready recommendations for a mine-land revitalization program.

Rise Reforming, University of Chicago, IL

February - July 2025

Operations Intern

- Ran techno-economic analysis and led a competitive-sector review for sustainable dimethyl ether production
- Researched grant and investment pathways to shape near-term growth strategy.

44 North Capital Management, Boston, MA

Summers of 2023 and 2024

VC Investment Analyst

- Produced diligence reports on early-stage startups and industry landscapes across medical and clean energy sectors, directly informing multiple six-figure investments.
- Built a climate-tech sector review and investment-trajectory analysis, evaluating carbon-credit markets and regulatory shifts to inform portfolio strategy.

SKILLS

Technical: Python; edge computing & IoT sensor integration; ML deployment & fine-tuning; economic modeling; radiative & climate-forcing simulation; regional climate-risk & extreme-weather projection; scientific writing

Business & Strategy: VC diligence & startup evaluation; market & regulatory analysis; pitch deck development; public & private equities analysis; startup operations; climate and natural capital risk, development economics