

# Evan Ryan Gunter

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[evgunter.github.io](https://evgunter.github.io)

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## Education

### California Institute of Technology

9/15—6/19

*BS in Mathematics, BS in Computer Science, and BS in Philosophy*

GPA 3.6 overall, 4.0 philosophy; eight A+'s; only triple major in my graduating class; 14 physics courses, including 3 graduate-level courses; thesis in philosophy of physics; research in CS and philosophy; peer tutoring and teaching assistance in CS, math, writing, physics

## Research Experience

### California Institute of Technology

*Philosophy thesis*    *adv. Sebens*    *Anthropic reasoning in infinite worlds*    9/18—6/19

Argued that the Self-Indication Assumption for anthropic reasoning is less arbitrary and more predictive than the more widely accepted Self-Selection Assumption; addressed mathematical issues with applying anthropic reasoning in infinite worlds; applied my findings to the example of spacetime dimensionality

*Reading in Philosophy*    *adv. Eberhardt*    1/19—4/19

With another student, wrote two papers: one on Russellian monism and the mathematical universe hypothesis, and one on personal identity and the repugnant conclusion

*Undergraduate Projects in Computer Science*    *adv. Vanier*    4/19—6/19

With another student, applied AlphaZero-inspired machine learning techniques for efficient tree search to automated theorem proving

*Summer Undergraduate Research Fellowship*    *adv. Winfree*    6/17—8/17

Studied the implementation of randomized algorithms with stochastic chemical reaction networks; developed example algorithms and proved performance bounds for them

### University of California, Berkeley (Concurrent Enrollment)

*Linguistics Research Apprentice Practicum (Ling. 197)*    1/15—5/15

Prepared phonetics data for analysis; made a script to do some preparation programatically

*Linguistic Typology (Ling. 222)*    1/14—5/14

Synthesized linguistic data into original analyses; wrote 40-page research paper on syntactic phenomena in the language Kolyma Yukaghir

*Introduction to Phonetics and Phonology (Ling. 110)*    8/13—12/13

Collected and analyzed phonetic data; wrote 20-page research paper on Mandarin phonetics

## Professional Experience

### Project N (Stealth Startup)

*Research Engineer* 2/22—present

Used black box optimization, sketch algorithms, statistical modeling, spectral analysis, data imputation, and machine learning in data compression research

*Software Engineer* 2/21—2/22

Configured cloud infrastructure, improved the CLI, and developed an automatic deployment script for a data compression product; developed internal tools for reducing costs

### Berkeley Existential Risk Initiative

*Research Assistant to Anders Sandberg* 4/21—12/21

Provided assistance on a draft of Anders' upcoming book: checked physics derivations and facts and discussed the philosophical and scientific content in weekly one-on-one meetings

**Theorem** *Engineering Intern* 7/18—9/18

Developed a tool for efficiently analyzing a large data set; created a custom serialization scheme to increase performance; configured cloud infrastructure

**Jet Propulsion Laboratory** *Intern* 7/16—9/16

Working in the Science Data Modeling and Computing Group, updated the data processing pipeline for Climate Model Diagnostic Analyzer for increased generality and reliability

## Teaching Experience

### California Institute of Technology

*Head Deans' Tutor, Calculus of One and Several Variables & Linear Algebra* 9/18—6/19

*Head Deans' Tutor, Classical Mechanics and Electromagnetism* 4/18—6/18

*Deans' Tutor, misc. math, physics, and computer science courses* 9/16—6/19

*Teaching Assistant: Fundamentals of Computer Programming* 1/19—3/19

*Teaching Assistant: Introduction to Discrete Mathematics* 9/18—12/18

*Teaching Assistant: Principles of Biology* 4/18—6/18

*Peer Tutor, Hixon Writing Center* 4/16—6/19