

# JONATHAN GABOR

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## EDUCATION

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**Cornell University** Aug 2025  
M.S. in Computer Science

**Simon's Rock** August 2016 – May 2020  
Early college (began after 10th grade)  
B.A. in Computer Science, graduated *summa cum laude*

**Massachusetts Institute of Technology** Spring 2019  
Undergraduate Special Student  
GPA: 5.0/5.0

## EXPERIENCE

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**Fulcrum Research** Jan 2026  
*Research Fellow*

- One of six fellows selected from a pool of over 100 applicants, mostly MIT students, largely based on performance on a coding test
- Working on research related to AI evaluations and safety data

**Cambridge Boston Alignment Initiative (CBAI)** Jun 2025 – Dec 2025  
*Research Fellow* Cambridge, MA

- Designed EvilGenie, a benchmark for reward hacking in programming settings
- Developed evaluation pipelines to elicit reward-hacking behaviors; ran cross-model experiments and documented findings.
- Secured an extension to continue research beyond the fellowship.

**Cornell University** 2021 – 2025  
*Graduate Researcher / Teaching Assistant*

- Conducted research in statistical machine learning, focusing on information-theoretic approaches to distribution shift and generalization.
- Head TA for CS 4700 (Artificial Intelligence), managed course logistics, coordinated TAs, and supported over 200 students.
- TA for CS 4820 (Algorithms), CS 2112 (Honors Data Structures), and CS 1110 (Intro CS).

**Ascend Analytics** Apr – Jul 2021  
*Intern, Back-End Development*

- Built and maintained machine learning models to predict energy prices.
- Contributed to refactoring and stability improvements of the codebase.

**Bard College at Simon's Rock / MIT** 2017 – 2020  
*Undergraduate Researcher*

- **Suffix Array Construction:** Designed and tested an external-memory suffix array algorithm with Prof. Marina Barsky; co-authored publication.

- **Computational Complexity of Puzzles and Games:** Collaborated with Profs. Aaron Williams and Erik Demaine, and Jayson Lynch, to prove PSPACE-completeness of "Switches", and other complexity results.
- **Computational Topology:** Studied and implemented the Mapper algorithm for data analysis with Profs. Ken Knox and Amanda Landi.

**Computer Science Tutor**  
Bard College at Simon's Rock

Aug 2018 – Dec 2019

- Provided 1-on-1 tutoring and group sessions for core CS courses.

## PUBLICATIONS

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<i>EvilGenie: A Reward Hacking Benchmark</i>	Preprint
<b>Jonathan Gabor</b> , Jayson Lynch, Jonathan Rosenfeld	
<i>Suffix Rank: A New Scalable Algorithm for Indexing Large String Collections</i>	VLDB 2020
Marina Barsky, <b>Jonathan Gabor (Presenter)</b> , Mariano Consens, Alex Thomo	
<i>Switches are PSPACE-Complete</i>	CCCG 2018
<b>Jonathan Gabor (Presenter)</b> , Aaron Williams	

## PROJECTS

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### Sliding 15 Puzzle AI

- Developed an AI in Python using A\* search and Takahashi's Walking Distance heuristic.
- Won class competition for solving the most puzzles under time constraints.

## AWARDS

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<b>Simon's Rock Merit Scholarship</b>	2016 – 2020
<b>Center for Talented Youth Scholarship</b>	2016 – 2020
<b>Rodney Christopher Scholarship</b>	Spring 2019

**Countdown Round Winner**, Mathcounts Westchester-Putnam Chapter 2014

## REFERENCES

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<b>Jayson Lynch</b> , Head of Algorithms, MIT FutureTech	jaysonl@mit.edu
<b>Jonathan Rosenfeld</b> , Head of AI, MIT FutureTech	jonsr@mit.edu
<b>Aaron Williams</b> , Professor of Computer Science, Williams College	aw14@williams.edu