

# SAM ACQUAVIVA

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samacquaviva.com

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## EDUCATION

### Massachusetts Institute of Technology (MIT), Cambridge, MA

*Bachelor of Science in Computer Science and Cognitive Science, May 2023*

- Relevant coursework: Algorithms, Signal Processing, Matrix Methods for Machine Learning, Deep Learning, Advanced Natural Language Processing, Tissue vs. Silicon: Differences in Machine Learning
- 4.9/5.0 GPA

### Massachusetts Institute of Technology (MIT), Cambridge, MA

*Master of Engineering, Computation and Cognition, May 2024*

- 5.0/5.0 GPA

## EXPERIENCE

### Stealth

*Founding Research Engineer, Sept 2024 – Present*

### Apple

*Machine Learning Intern, May 2022 – August 2022*

- Designed and implemented semi-supervised training pipeline for Siri from high-risk production data
- Generated large-scale datasets of failing interactions and recreated the outcome in an offline environment

### X, The Moonshot Factory (Google X)

*AI Residency, February 2022 – May 2022*

- Implemented state-of-the-art neural-guided program synthesis engine
- Ran hundreds of experiments across thousands of machines to document program performance
- Outlined approach to combine program synthesis methods with completely neural sequence-to-sequence models

### John Deere

*Software Engineering Intern, June 2021 – September 2021*

- Developed computer vision system to identify corn kernels in a noisy production environment
- Modeled and used reinforcement learning methods to automate advanced skid steer maneuvers
- Collaborated with PhD students on a daily basis to ensure solid theoretical bases for models

### Cloud Canaries

*Software Engineer, January 2021 – May 2021*

- Created a data pipeline to robustly store large scale customer data for efficient search
- Built a forecasting system to predict Service Level Agreement compliance for various cloud computing providers

### MIT Computer Science and Artificial Intelligence Laboratory

*Computational Cognitive Science Group Researcher, May 2020 – May 2021*

- Created data collection platform and a novel bandit algorithm to conduct a large-scale dynamic user study
- Collected novel dataset and used collected language data to improve state-of-the-art program synthesis
- Published paper in the 2022 Conference on Neural Information Processing Systems (NeurIPS)

## EXTRACURRICULARS

### MIT Track and Field and Cross Country

*September 2019 – May 2024*

- U.S. Track & Field and Cross Country Coaches Association (USTFCCCA) Men's Scholar-Athlete of the Year (2022)

### MIT Class of 2023 Class Council

*Vice President, September 2019 – August 2020*