

Samuel Qin

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Programming Languages: Python, Java, MATLAB, LaTeX

Education

Case Western Reserve University

Cleveland, OH

Double Major: Mathematics, Computer Science

Expected Graduation 2026

- 3.94/4.0 GPA
- Dean's High Honors, 2022—2023
- Relevant coursework: Advanced Algorithms*, Data Structures, Linear Algebra, Graph Theory*, High-Dimensional Probability*, Probabilistic Graphical Models*
(* indicates graduate or cross-listed graduate course)

Choate Rosemary Hall

Wallingford, CT

High School Diploma

Graduated 2022

- 3.78/4.0 GPA (unweighted)
- Dean's List, 2018—2022

Work Experience

CWRU Math Department

Supplemental Instructor, Spring 2024

Work under Dr. Chris Butler to help teach MATH122 (Calculus for Science and Engineering II)

- Lead weekly recitation of taught course materials
- Host office hours and grade assignments

Case Western Reserve University Sepsis Lab

Research Assistant, June 2023—present

Research neural control of the respiratory rhythm under co-supervision of Rishi Dhingra and Peter Thomas

- Signal processing of multi-electrode array recordings via learned template-matching algorithms
- Experimental techniques for dissection and nerve recordings in the brainstem
- Develop recurrent-neural network models of neuronal recordings

Leadership and Club Experience

Math Club

Cleveland, OH

Presenter and Active member

2022—present

Ultimate Frisbee Team

Cleveland, OH

Treasurer and Active member

2022—present

Residence Hall Association

Cleveland, OH

Community Treasurer

2022—present

Interests

Application of probability and combinatorics to computer science and mathematical modeling. Cryptography and discrete mathematics.