

SAMUEL CAMERON LOWE

MATHEMATICS AND COMPUTER SCIENCE EDUCATOR WITH WORK RECOGNIZED BY NPR AND THE
NEW YORK TIMES.

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EDUCATION

Northeastern University – College of Science

Boston, MA

Master of Science in Applied Mathematics, Data Science Concentration

May 2025

- **Relevant Coursework:** Algorithms, Machine Learning & Statistical Learning Theory 1 & 2, Probability 1 & 2, Measure Theory, Abstract Algebra 1 & 2
- **GPA:** 3.92/4.0

Northeastern University – Khoury College of Computer Sciences

Boston, MA

Bachelor of Science in Computer Science and Mathematics

June 2023

- **Relevant Coursework:** Public Speaking, Software Development, Object-Oriented Design, Linear Algebra, Ordinary and Partial Differential Equations, Computer Systems, Computer Graphics, Complex Analysis
- **Activities & Societies:** Math Club (President), Math Education Mentorship Association (Executive Board Member), Game Dev Club

SKILLS

Mathematics: Algebra, Trigonometry, Calculus and Precalculus, Sets, Logic, Proofs, Vectors and Matrices, Probability and Statistics

Computer Science: Programming (Python, C/C++, C#, Java, JavaScript), Computer Literacy (Linux, Windows, Command Line), Web Development (React, Django), Data Science and Machine Learning (TensorFlow, Scikit-Learn)

EXPERIENCE

Data Analyst

Boston, MA

Center for Strategic Politics

Dec. 2024 – Current

- Used Python data analysis and visualization libraries to analyze poll data for both public press releases and several polls that have been commissioned by campaigns around the country
- Designed the weighted single transferrable vote algorithm to simulate the outcomes for the [NYC Mayoral Democratic Primary Poll](#), which was featured on the [New York Times](#)

Teaching Assistant

Boston, MA

Northeastern University

Sept. 2021 – May 2024

- Assisted multiple proof-based mathematics and computer science classes including [Introduction to Math Reasoning](#), [Number Theory 1](#) (grader only), and [Logic and Computation](#)
- Led programming labs, problem solving sessions, and office hours, and graded homework and exams

Volunteer Instructor

Boston, MA

Bridge to Calculus

April 2023

- Mentored in an extracurricular program for high school students to prepare them for their calculus courses. Assisting with question design, teaching, and grading

Software Engineering Co-op

Boston, MA

BitSight Technologies

Jan. 2022 – Aug. 2022

- Designed and prototyped Golang microservice to parallelize data processing
- Worked with SQL, Python, and Kubernetes to add features and unit tests to back-end Django database

PROJECTS | [SAMLOWE.DEV/PORTFOLIO](https://samlowe.dev/portfolio)

Pisa | [Python](#), [Django](#), [Lean4](#), [SQL](#), [JavaScript](#), [HTML](#), [Docker](#) | [Code](#)

- Designed and built a full-stack proof assignment platform in Django for instructors to design, assign, and automatically grade assignments in the Lean4 programming language
- Features include homework and problem design, viewing, and exporting student grades across multiple classes, and code environment with syntax highlighting and server-side automated feedback and grading

Baby's First Linear Regression | [Python](#), [JavaScript](#) | samlowe.dev/linear-regression-1/

- A detailed, mathematically precise explanation of one of the most common techniques in statistics and data science, targeted to advanced high schoolers
- Color-coded presentation is assisted by custom-made interactive in-browser demonstrations and experiments