

Nguyen K Tran

Resume

Education

2025 - 2027 **BSc. in Applied Mathematics and Statistics**, University of Massachusetts Lowell

2023 - 2025 **AS. in Computer Science**, Bunker Hill Community College, Major GPA: 3.4

Research Experience

- June 2025–present **Research Assistant in Biomedical Data Science**, Department of Biological Science, University of Massachusetts Lowell, Advisor: Rachel Melamed, PhD
- Implement PrediXcan method into the 866 GTEX subjects to build the models to predict gene expression at 15044 genes and 103 tissues from genotype data
 - Obtain and prepare ready to train data from large dataset (270 GB vcf file)
 - Takes ownership of their project, make research plan and agenda for weekly 1-1 meeting with advisor

Awards and Honors

- 2025 International Transfer Academic Achievement Award — \$13 000/year for 4 years (total \$52 000).
- 2025 The Moloney Scholarship

Courseworks

Mathematics Calculus 1 - 3, Discrete Structure I, Linear Algebra, Ordinary Differential Equations, Partial Differential Equations.

Computer Science Java Programming, C++ Programming, SQL Programming, Data Structures & Algorithms, Organization of Programming Languages, Data Science for Biologist

Data Science Data Science for Biologist

Hackathons

Jan 2025 **Hack NYU**, New York University, NYC, NY

- Build an web extension that look up for vouchers codes when shopping online within 24 hours

Oct 2024 **Hack Harvard**, Harvard University, Cambridge, MA

- Built application to translate American Sign Language (ASL) into English within 36 hours
- Labeled training data to improve model accuracy in real-time