

# 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