

# Natalie Kozlowski

[nkozlo@mit.edu](mailto:nkozlo@mit.edu) | (512)-975-9925 | [github.com/nataliekozlowskii](https://github.com/nataliekozlowskii) | [linkedin.com/in/nataliekozlowskii](https://linkedin.com/in/nataliekozlowskii) | Austin, TX & Boston, MA

## EDUCATION

### Massachusetts Institute of Technology (MIT)

Cambridge, MA  
anticipated May 2028

- B.S. in Electrical Engineering & Computer Science
- **GPA:** 5.0/5.0
- **Relevant Coursework:** Discrete Math, Fundamentals of Programming, Circuit Design, Linear Algebra
- **Societies:** Women in EECS, Society of Women Engineers, AI @ MIT

### Westlake High School

Austin, TX  
May 2024

- **Class Rank:** valedictorian in class of ~700 students, **SAT:** 1600/1600, **ACT:** 36/36

## SKILLS

**Programming:** Python, C++, Java, JavaScript, Bash, R

**Tools & Infrastructure:** Git, Slurm (High Performance Computing job scheduling), Linux shell

**Machine Learning Libraries:** PyTorch, scikit-learn

**Engineering Software:** Altium Designer (Altium Education Certificate in PCB Design), SOLIDWORKS, Ansys

**Languages:** English (native), Polish (native), Spanish (working proficiency & Seal of Biliteracy)

## WORK EXPERIENCE

### Researcher: Machine Learning & Computational Science

May 2025 - present  
Cambridge, MA

Kulik Research Group @ MIT

- Building ML models in Python (Artificial Neural Network (ANN), Gradient Boosted Decision Tree, Kernel Ridge Regression) using PyTorch & scikit-learn to predict water transport in metal-organic frameworks
- Implemented latent space active learning workflow for an ANN, improving model performance by 40% on test data
- Conducted 2,000+ molecular simulations on Linux High-Performance Computing cluster
- Automated workflows with Python, Slurm, & Bash to manage high-throughput molecular simulations

### Researcher: Machine Learning & Signal Processing

September 2025 - present  
Cambridge, MA

Fluid Interfaces Group, Media Lab @ MIT

- Building end-to-end signal processing pipelines in Python for multimodal EOG, EEG, & EMG data
- Developing ML models in Python using PyTorch & scikit-learn to predict user's cognitive state for integration with wearable brain-computer interface devices

### Intern: Software & Lab Research

February 2025 - August 2025

Endless Health

Austin, TX (remote Feb-May, in-person June-Aug)

- Developed Python pipelines to automate processing & analysis of diagnostic lab data, boosting assay validation efficiency & supporting expansion of clinical hormone panel by 5 biomarkers
- Designed & optimized experimental protocols for quality testing of 5 novel biomedical assays, leading to their successful integration into company product offerings

## LEADERSHIP & ACTIVITIES

### Software Developer

August 2025 - present  
Cambridge, MA

Assistive Technology @ MIT

- Collaborating with ~20-person team to design & program adapted gaming controller for user with disabilities

### Electrical Engineer

September 2024 - present  
Cambridge, MA

Solar Electric Vehicle Team @ MIT

- Manufacturing & testing 768-cell Li-ion battery module to power multi-occupant solar electric vehicle
- Built simulation workflows for computational fluid dynamics in Ansys to model thermal performance of battery module, verifying module safety under peak charging conditions
- Collaborating with mechanical & aerodynamics subteams to integrate battery & controls with vehicle-wide systems

### Teaching Assistant for Differential Equations

August 2025 - present  
Cambridge, MA

Department of Mathematics @ MIT

- Providing individualized feedback on 250+ problem sets per week, supporting student learning outcomes in fundamental engineering coursework