Veronika Potter

veronikakpotter@gmail.com | veronikapotter.github.io | veronika-potter | Veronika Potter

Education

Northeastern University, *MS in Computer Science (CS)* Sept 2022 - Dec 2025

- GPA: 3.9/4.0 | Khoury Fellowship ('22-'23 and '23-'24)

University of Vermont, *BS in Mathematics* and *BA in Computer Science* Sept 2018 – Jan 2022

- Minor: Writing | GPA: 3.9/4.0 | Honors College Scholar | Magna Cum Laude

Research Experience

Graduate CS Research Assistant, Northeastern University – Boston, MA Sept 2022 – Present

Selected first-author papers:

"The Physical Activity Assessment Using Wearable Sensors (PAAWS) Dataset: Labeled Free-Living and Laboratory Accelerometer Data." IMWUT, 2025.

- Designed and implemented quality control tools to flag and document data issues, improving overall dataset integrity
- Applied ML classifiers for human activity recognition (HAR) to benchmark a novel wearable sensor dataset
- Evaluated the impact of task type, data collection protocols, and training set size on model performance

PDF | **Code**

"An Evaluation of Temporal and Categorical Uncertainty on Timelines: A Case Study in Human Activity Recall Visualizations." IEEE VIS, 2025.

- Led data collection and analysis for a mixed-methods evaluation study involving 81 participants
- Performed qualitative analysis of interview transcripts to identify themes in participant perceptions and biases
- Designed and iteratively evaluated temporal and categorical uncertainty encodings in timeline visualizations

PDF | **Supplemental Material**

"Comparing and Analyzing the Performance of Existing Wrist-Accelerometer-Only Human Activity Recognition Algorithms On Labeled and Unlabeled Free-Living Data." *(in preparation)*

- Conducted a systematic review of 6k+ peer-reviewed publications on wrist-based HAR algorithms
- Implemented and evaluated four publicly available HAR algorithms on an independent benchmark dataset

Industry Experience

Associate Software Engineer, MITRE – Bedford, MA Feb 2022 – Sept 2022

- Contributed C# code (.NET framework), code reviews, and Jira tickets to ship an MVP in an Agile environment
- Developed and maintained unit tests to ensure code reliability and support continuous integration

Teaching and Mentoring

Lead Graduate Teaching Assistant, Northeastern University – Boston, MA Sept 2025 – Present

Class: CS 5520 – Mobile Application Development (Fall '25)

- Instructed students in app development concepts and provided one-on-one support during weekly office hours
- Coordinated a team of three TAs to ensure consistent and timely grading and feedback across all assignments

Skills

Data Analytics: data collection and processing; visualization; supervised classification (Scikit learn, TensorFlow).
Research: usability studies, qualitative analysis (inductive thematic coding), mixed-methods experiments.
Languages: Proficient in Python (Pandas, NumPy, Matplotlib). Past experience in Java, C++, and C# (industry).
Misc.: algorithm design, agile, VCS (Git), human-computer interaction principles, and CAD (OnShape).