Daniel **Kerrigan**

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Education

Northeastern University
Ph.D. in Computer Science

Boston, MA
Jan. 2022 - Present

- Advisor: Associate Professor Enrico Bertini
- Expected graduation: 2025

New York University
Master of Science in Computer Science - Tandon School of Engineering

Brooklyn, NY
Sep. 2019 - Jan. 2022

- I was enrolled in the Ph.D. program at NYU and then transferred after receiving my M.S. to follow my advisor.
- GPA: 4.0/4.0

University of Notre Dame
Bachelor of Science in Computer Science

Notre Dame, IN
Sep. 2014 - May 2018

- GPA: 3.99/4.0 - summa cum laude

Experience

Capital One
Machine Learning Engineer Intern - Applied Research

Remote
June 2023 - Aug. 2023

- Built a tool for enabling domain experts to familiarize themselves with and identify unintuitive behavior in ML models.

Capital One
Machine Learning Engineer Intern - Applied Research

Remote
June 2022 - Aug. 2022

- Developed PDPilot, an application for efficiently analyzing the behavior of ML models through partial dependence plots.

Amazon Robotics
Software Development Engineer

Westborough, MA
July 2018 - Aug. 2019

- Contributed to building an internal Android application and supporting services used to manage robotic warehouses.
- Led a re-architecture of a back end service to migrate off of an external dependency and to expand capabilities.

Publications

D. Kerrigan and E. Bertini. 2023. "SliceLens: Guided Exploration of Machine Learning Datasets". *In Proceedings of the Workshop on Human-In-the-Loop Data Analytics (HILDA '23)*. DOI: 10.1145/3597465.3605217

D. Kerrigan, J. Hullman, and E. Bertini. 2021. "A Survey of Domain Knowledge Elicitation in Applied Machine Learning". *Multimodal Technologies and Interaction* 5, no. 12: 73. DOI: 10.3390/mti5120073

Teaching

NYU

- Teaching assistant for Information Visualization (Spring 2020, Fall 2020, Spring 2021, Summer 2021, Fall 2021).
- Developed Observable notebooks to teach D3 concepts, created assignments, ran in class exercises, and held office hours.

Northeastern

- Teaching assistant for Data Visualization for Machine Learning (Fall 2022).
- Created Jupyter notebooks to teach ML explainability concepts.

Skills

Languages Proficient in Python, Java, and JavaScript. Some experience with C and F#.

Technologies D3.js, Svelte, Observable, Jupyter, Shell scripting, Git, and AWS services including DynamoDB, SNS, and SQS