

Daniel Kerrigan

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Education

Northeastern University

PH.D. IN COMPUTER SCIENCE

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

Boston, MA

Jan. 2022 - Present

New York University

MASTER OF SCIENCE IN COMPUTER SCIENCE - TANDON SCHOOL OF ENGINEERING

- 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

Brooklyn, NY

Sep. 2019 - Jan. 2022

University of Notre Dame

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

- GPA: 3.99/4.0 - summa cum laude

Notre Dame, IN

Sep. 2014 - May 2018

Experience

Capital One

MACHINE LEARNING ENGINEER INTERN - APPLIED RESEARCH

- Built [Monomoy](#), a tool for enabling domain experts to familiarize themselves with and identify unintuitive behavior in ML models.

Remote

June 2023 - Aug. 2023

Capital One

MACHINE LEARNING ENGINEER INTERN - APPLIED RESEARCH

- Developed [PDPilot](#), an application for efficiently analyzing the behavior of ML models through partial dependence plots.

Remote

June 2022 - Aug. 2022

Amazon Robotics

SOFTWARE DEVELOPMENT ENGINEER

- 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.

Westborough, MA

July 2018 - Aug. 2019

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](https://doi.org/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](https://doi.org/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.

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