Daniel **Kerrigan**

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Education

Northeastern University *Boston, MA*

PH.D. IN COMPUTER SCIENCE *Jan. 2022 - Present*

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

New York University *Brooklyn, NY*

MASTER OF SCIENCE IN COMPUTER SCIENCE - TANDON SCHOOL OF ENGINEERING *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 *Notre Dame, IN*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE *Sep. 2014 - May 2018*

- GPA: 3.99/4.0 - summa cum laude

Experience

Capital One *Cambridge, MA*

MACHINE LEARNING ENGINEER INTERN - APPLIED RESEARCH *June 2023 - Aug. 2023*

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

Capital One *Cambridge, MA*

MACHINE LEARNING ENGINEER INTERN - APPLIED RESEARCH *June 2022 - Aug. 2022*

- Developed an application for the efficient exploration of partial dependence plots.

Amazon Robotics *Westborough, MA*

SOFTWARE DEVELOPMENT ENGINEER *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