DANIEL ZEIBERG

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EDUCATION

PhD in Computer Science — 2018 - Present
Northeastern University, Boston, MA — GPA: 4.0/4.0
Relevant Courses: Advanced Machine Learning, Statistical Inference, Data Visualization

Bachelor of Science in Engineering, Computer Science — 2014 - 2018
University of Michigan, Ann Arbor, MI — GPA: 3.83/4.0
Minor in Statistics
Graduated summa cum laude from Engineering Honors College
Relevant Courses: Machine Learning, Artificial Intelligence, Natural Language Processing, Theoretical Statistics, Applied Regression

EXPERIENCE

Graduate Research Assistant — January 2019 - Present
Northeastern University, Advised by Predrag Radivojac — *Boston, MA*
- Developed a deep learning model for class prior estimation for positive-unlabeled data using Tensorflow
- Researching heterogeneous graph-based models for compound protein interaction prediction using Keras
- Leveraged computer clusters and parallelism to quickly process large high-dimensional datasets

Advanced Machine Learning Course Project — January - May 2019
Northeastern University — *Boston, MA*
- Evaluated the utility of natural language processing techniques in lyric-based song genre prediction
- Compared state of the art neural topic models to Word2Vec and TF-IDF in learning song representations

Graduate Research Assistant — September - December 2018
Northeastern University, Advised by Rose Yu — *Boston, MA*
- Developed deep sequence-to-sequence models using Pytorch that forecast spatiotemporal data
- Achieved prediction accuracy on-par with published methods for next hour traffic speed forecasting

Undergraduate Research Assistant — May 2017 - July 2018
University of Michigan, Advised by Jenna Wiens — *Ann Arbor, MI*
- Developed a model that uses electronic health records to risk stratify hospital patients for Acute Respiratory Distress Syndrome
- Demonstrated our model's ability to allow doctors to avoid time intensive manual chart review

PUBLICATIONS AND AWARDS

- Zeiberg D et al. Fast nonparametric estimation of class proportions in the positive-unlabeled classification setting. AAAI-2020
- Zeiberg D, Prahlad T et al. Machine learning for patient risk stratification for acute respiratory distress syndrome. PLOS ONE (2019)
- Lugo-Martinez J, Zeiberg D, Gaudelet T, Malod-Dognin N, Przulj N, Radivojac P. Classification in biological networks with hypergraphlet kernels. Bioinformatics (2020)
- Most Likely To Have Transformative Scientific Impact Award - MIDAS Symposium — October 2017

TECHNICAL STRENGTHS

Computer Languages	Python, C/C++, MATLAB, R, Java
Software & Tools	Tensorflow, Pytorch, Keras