

Jared Fernandez

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Education

Northwestern University

B.S. IN COMPUTER SCIENCE WITH HONORS
B.S. IN ELECTRICAL ENGINEERING

Sept. 2015 - June 2019

GPA: 3.86/4.00, Major GPA: 3.91/4.00

COURSEWORK: Graduate Algorithms • Machine Learning • Artificial Intelligence • Deep Reinforcement Learning • Probabilistic Graphical Models • Statistical Language Models • Computer Vision • Medical Imaging • Networking • Databases • Digital Signal Processing • Probability • Linear Algebra • Differential Equations

Experience

Google, SOFTWARE ENGINEERING INTERN

June 2018 - Sept. 2018

- Improved handling of queries issued to Google Assistant and the Android Google Search App
- Designed and implemented visual interfaces to increase discoverability of offline functionality for Google Assistant on Android Auto

Northwestern EECS, RESEARCH ASSISTANT

Jan. 2017 - Present

Principal Investigator: Doug Downey (WebSAIL Group)

- Investigating importance sampling for accelerating training of recurrent neural network language models
- Developed framework for efficiently sharing word embeddings online using compact signature representations

Principal Investigator: Thrasyvoulos Pappas

- Investigating image processing techniques to design metrics for measuring texture similarity and perform texture retrieval

Northwestern EECS, TEACHING ASSISTANT

March 2017 - June 2018

Courses Taught: Machine Learning, Artificial Intelligence, Discrete Math

- Graded course assignments and hosted weekly office hours to ensure understanding of concepts

SLAC National Laboratory, RESEARCH SUPPORT INTERN

June 2015 - Aug. 2015

- Analyzed and created visualizations for x-ray diffraction patterns of high temperature superconductors

Stanford Earth Sciences, RESEARCH INTERN

June 2013 - Aug. 2014

Principal Investigator: Kim Blisniuk

- Calculated slip rates on the San Andreas Fault with Beryllium isotope dating. Identified field locations for sample collection, and isolated samples for mass spectrometry.

Publications

1. **Jared Fernandez**, Doug Downey. Sampling Informative Training Data for RNN Language Models. Association for Computational Linguistics: Student Research Workshop (ACL-SRW), 2018.
2. **Jared Fernandez**, Zhaocheng Yu, Doug Downey. VecShare: A Framework for Sharing Word Representation Vectors. Empirical Methods in Natural Language Processing (EMNLP), 2017.

Activities

Northwestern IEEE Student Chapter, EXECUTIVE BOARD

March 2016 - Present

EXTERNAL VICE PRESIDENT (2017-2018), TECHNICAL PROGRAM DIRECTOR (2016-2017)

- Led corporate outreach to coordinate industry representative appearances at tech talks & hackathons.
- Taught development and data analysis skills as project manager for machine learning and webdev teams.

Skills

Programming:

Python • C • C++ • C# • Java • MySQL • Matlab • HTML/CSS

Packages & Frameworks:

TensorFlow • NumPy • Pandas • OpenCV • Android • Git • \LaTeX