Jared Fernandez

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Education

Northwestern University

Sept. 2015 - June 2019

B.S. IN COMPUTER SCIENCE WITH HONORS

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

B.S. IN ELECTRICAL ENGINEERING

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

Experience_

Google, SOFTWARE ENGINEERING INTERN

June 2018 - Sept. 2018

- Improved query handling on Google Assistant and the Android Google Search App
- Designed and built interfaces to improve offline discoverability for 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 rapidly sharing word embeddings online using compact embedding signatures Principal Investigator: Thrasyvoulos Pappas
 - Learning metrics for measuring perceptual texture similarity for image retrieval and segmentation

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 - August 2013, '14

Principal Investigator: Kim Blisniuk (Cosmogenic Radiation Lab)

• Determined San Andreas Fault slip rates by using mass spectrometry to perform Beryllium isotope dating.

Professional Activity

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.

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.

Honors & Awards

Tau Beta Pi Engineering Honor Society, Member
Eta Kappa Nu (IEEE-HKN) Honor Society, Member
McCormick Undergraduate Honors Program, Northwestern University
Undergraduate Research Grant, Northwestern University

October 2018 - Present October 2018 - Present September 2015 - Present June 2017

Skills.

Programming: Python • C • C++ • C# • Java • MySQL • Matlab • HTML/CSS **Packages & Frameworks:** TensorFlow • NumPy • Pandas • OpenCV • Android • Git • 上下X