

Jared Fernandez

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EDUCATION

Northwestern University, B.S. Computer Science with Honors **September 2015 – June 2019**
Cumulative GPA: 3.87/4.00, Major GPA: 3.94/4.00
Coursework: Graduate Algorithms, Machine Learning, Artificial Intelligence, Reinforcement Learning, Probabilistic Graph Models, Statistical Language Models, Computer Vision, Databases, Signals & Systems, Convex Optimization, Probability, Linear Algebra, Differential Equations

SKILLS

Proficient: Python (tensorflow, keras, numpy, pandas, matplotlib, django), C/C++, Matlab, Git
Familiar: MySQL, C#, Java, Javascript, HTML, CSS

EXPERIENCE

Research Assistant in Machine Learning, Northwestern EECS **January 2017 – Present**
Principal Investigator: Douglas Downey

- Investigated sampling and active learning as tools to improve deep statistical language models
- Developed the VecShare framework and Python library for sharing and effectively selecting word embeddings over the web by using lightweight signature representations

Teaching Assistant, Northwestern EECS **March 2017 – Present**
Courses Taught: Machine Learning, Artificial Intelligence, Discrete Math

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

Research Support Intern, SLAC National Accelerator Laboratory **June – August 2015**
Analyzed and visualized x-ray diffraction patterns for high temperature superconductors

Research Intern, Stanford Earth: Cosmogenic Radiation Laboratory **June 2013– August 2014**

- Determined San Andreas Fault slip rates with *Be*-isotope dating, identified locations for sample collection, and isolated samples for mass spectrometry. Invited to AGU Fall Meetings 2013, 2014.

PUBLICATIONS

- Jared Fernandez**, Zhaocheng Yu, Doug Downey. *VecShare: A Framework for Sharing Word Representation Vectors*. Empirical Methods in Natural Language Processing (EMNLP), 2017

ACTIVITIES

Executive Board, Northwestern IEEE **March 2016 – Present**

- Previously:* External Vice President (2017 - '18), Technical Program Director (2016 - '17)
- Managed corporate outreach, contacting industry representatives for appearances at IEEE events
- Project manager for teams in text generation and data visualization (Winner of 2017 IEEE Showcase Best Underclassmen Award)

AWARDS

McCormick School of Engineering: Dean's List (x6) Winter 2016 – Present
Northwestern Undergraduate Summer Research Grant June 2017
Northwestern Undergraduate Conference Travel Grant July 2017
Northwestern EECS Department Travel Grant July 2017