

JARED FERNANDEZ

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EDUCATION

Northwestern University, Evanston Illinois

September 2015 – June 2019 (Anticipated)

Cumulative GPA: 3.85/4.00, **EECS GPA:** 3.93/4.00

Degrees: B.S. Computer Science, Electrical Engineering

Relevant Coursework: Algorithms, Machine Learning, Artificial Intelligence, Databases, Data Structures, Computer Systems, Discrete Math, Vector Calculus, Linear Algebra, Differential Equations.

SKILLS

Proficient: Python (numpy, pandas, scikit-learn, matplotlib, flask, Django), C/C++, MatLab, LaTeX, Git

Familiar: MySQL, C#, Java, Javascript, HTML, CSS

WORK EXPERIENCE

Research Assistant in Machine Learning, Northwestern EECS

January 2017 – Present

Principal Investigator: Douglas Downey

- Developed the VecShare framework and Python library for sharing word embedding NLP models over the web, with lightweight signatures to rapidly match textual datasets with effective models (Accepted to EMNLP 2017)

Teaching Assistant, Northwestern EECS

March 2017 – Present

- Courses Taught:* EECS 101 (Intro to Programming), EECS 348 (Artificial Intelligence)
- Assists in grading course projects and hosts weekly office hours to ensure understanding of concepts

Math & Science Tutor, NU Tutors

May 2016 – March 2017

- Held one-on-one tutoring sessions for high school students in calculus & physics

Research Support Intern, SLAC National Accelerator Laboratory

June – August 2015

- Used numpy for to analyze and create visualizations of high temperature superconductor diffraction patterns

Research Intern, Stanford Earth: Cosmogenic Radiation Laboratory

June 2013– August 2014

- Determined slip rates on the San Andreas Fault using *Be*-isotope dating. Identified field locations for sample collection and isolated quartz samples for mass spectroscopy.
- Invitations to present at AGU Fall Conferences (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

PROJECTS

Pocket Ian: Northwestern EECS Course Advisor (*WildHacks*)

November 2016

- Flask Facebook chat bot providing course advising for Northwestern EECS
- Led development of question parser and managed data scraping and cleaning

PROFESSIONAL AFFILIATIONS

External Vice President, Northwestern IEEE

March 2016 – Present

- Manages corporate outreach, contacting industry representatives for appearances at IEEE events
- Previous Position: IE³ Technical Program Director
 - Designed program to engage students in software development through guided team-based projects

AWARDS

McCormick School of Engineering: Dean's List

Winter 2016 – Present

Northwestern Undergraduate Summer Research Grant

June 2017 – Present

Northwestern Undergraduate Conference Travel Grant

July 2017

Northwestern EECS Department Travel Grant

July 2017