

JARED FERNANDEZ

(408) 832-3234 | Jared.Fern@u.northwestern.edu | jaredfern.us
Github: JaredFern | LinkedIn: FernJared

EDUCATION

Northwestern University

September 2015 – June 2019

Cumulative GPA: 3.87/4.00, EECS GPA: 3.94/4.00

Degrees: B.S. Computer Science, B.S. Electrical Engineering

Current Coursework: Advanced Computer Vision, Statistical Pattern Recognition, Circuit Analysis

Relevant Coursework: Algorithms, Machine Learning, Probabilistic Graphical Models, Computer Vision, Artificial Intelligence, Signals & Systems, Databases, Computer Systems

SKILLS

Proficient: Python (numpy, keras, pandas, scikit-learn, matplotlib, django), C/C++, Matlab, LaTeX, Git

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

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 vector NLP models over the web with lightweight signatures to rapidly match text datasets to models (Presented at EMNLP '17)
- Investigating active learning and web data as tools to improve deep statistical language models

Teaching Assistant, *Northwestern EECS*

March 2017 – Present

- *Courses Taught:* Discrete Math, Artificial Intelligence
- Grades course assignments 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

- 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 field locations for sample collection and isolated samples for mass spectroscopy. Invited to AGU Fall Meetings 2013, 2014.

PUBLICATIONS

1. **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

- Developed question parser and managed data scraping for EECS course advising Facebook chat bot

ACTIVITIES

External Vice President, *Northwestern IEEE*

March 2016 – Present

- Manages corporate outreach, contacting industry representatives for appearances at IEEE events
- Designed technical program to engage students in software development with guided team projects

AWARDS

McCormick School of Engineering: Dean's List

Winter 2016 – Present

Northwestern Undergraduate Summer Research Grant

June 2017

Northwestern Undergraduate Conference Travel Grant

July 2017

Northwestern EECS Department Travel Grant

July 2017