

Jake Vasilakes

jvasilakes@gmail.com (763) 339-9216 jvasilakes.github.io github.com/jvasilakes

Experience

Feb - June 2017 | **Special Ed Paraprofessional**
Mounds View Schools - Mounds View, MN

- Tutored students one-on-one and in small groups on a variety of topics from math to reading to ethics.
- Assisted teachers in running the classroom, including teaching duties.

Feb - Nov 2016 | **Research Assistant in Speech Processing (IARPA Babel project)**
University of Cambridge - Cambridge, UK

- Trained and evaluated state of the art machine learning systems for automatic speech recognition on multiple datasets each containing over 80 hours of audio data.
- Performed statistical analysis with R using regression, significance testing, and visualization to develop a method of accurately predicting final system performance on unseen data. Presented findings at an academic conference.
- Designed and implemented pipelines for building statistical language models using Python and shell.
- Supervised an undergraduate student's research project on optimizing a search graph, which resulted in a conference paper.
- Maintained the project's set of software tools in shell, Python, and C.

Sept - Nov 2015 | **Algorithm Development Intern**
ICAN Future Star Ltd - Edinburgh, UK

- Designed a machine learning system utilizing clustering and regression algorithms for matching students to universities and assisting students with the application process.
- Assisted in writing an ultimately successful grant for funding.

Education

Aug 2015 | **University of Edinburgh**
M.S. Speech and Language Processing, *Distinction*

June 2013 | **Loyola University of Chicago**
B.A. Philosophy with Honors, *Magna Cum Laude*

Skills

Data Science: Natural language processing, machine learning, neural networks, statistical analysis.

Programming Languages: Python, R, C, shell (`bash` & `tcsh`), SQL, regex

Software and Libraries: NLTK, Weka, NumPy, SciPy, TensorFlow, Jupyter, Git, LaTeX

Operating Systems: Linux/Unix, OS X, Windows