Jake Vasilakes

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Experience

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

- Building state of the art ASR and keyword search systems for 7+ languages using HTK.
- Conducting experiments to improve ASR and keyword search performance, reporting and analysing results.
- Maintaining the project's set of software tools.
- Implemented pipelines for building language models from web and morphologically decomposed data using Python and shell.

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

- Designed a machine learning system for matching students to universities based on preferences and qualifications.
- Assisted in writing an ultimately successful grant for funding.

Education

Aug 2015 | **MSc Speech and Language Processing (Distinction)**
University of Edinburgh

Thesis: *Automatic Generation of Wide-scale Semantic Representations in NLTK*   Advisor: Ewan Klein

Coursework

- Advanced Natural Language Processing
- Topics in Natural Language Processing
- Speech Processing
- Statistics and Methodology using R
- Automated Reasoning
- Natural Language Understanding
- Introductory Applied Machine Learning
- Automatic Speech Recognition
- Machine Translation
- Semantic Web Systems

June 2013 | **B.A. Philosophy (Honors)**
Loyola University of Chicago

GPA: 3.84/4.00
Thesis: *The World of Speech*
Honors and Awards: Outstanding Philosophy Senior Award 2013, 2nd place Ancient Greek Translation Contest 2012, Member - Eta Sigma Phi Classical studies honor society

Skills

Computer Languages: Python, shell (`bash` & `tcsh`), R, C, regex
Software and Libraries: HTK, NumPy, NLTK, TensorFlow, WEKA, Git
Operating Systems: Linux, OS X, Windows XP-8
Human Languages: English (native), Italian (conversational), 4 years study of Ancient Greek

Presentations

Vasilakes, J.A., Wang, H., Ragni, A., Gales, M.J.F. & Knill, K.M. (2016, June). *Speech Recognition and Keyword Spotting Performance Analysis Across Languages.* Poster presented at UK Speech Conference, Sheffield, UK