Jake Vasilakes

Place and Date of Birth: U.S.A. July 23, 1991 Address: Chancellors Court LG012R4, EH16 5AY Edinburgh, UK

Interests: Natural Language Understanding esp. semantic parsing, computational (formal and distributional) semantics, QA systems, natural language generation, ontologies, automatic speech recognition.

Education

Expected | MSc Speech and Language Processing University of Edinburgh August 2015

Exams: (Marks not yet available)

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

Thesis: Adding a semantic parser to the Python NLTK library. Advisor: Ewan Klein

June 2013 | B.A. Philosophy with Honors Loyola University of Chicago

GPA: 3.84/4.00

Minors: Classics, Italian

Thesis: "The World of Speech". Advisor: Hanne Jacobs

Honors and Awards: Outstanding Philosophy Senior Award 2013, 2nd place Ancient Greek

Translation Contest 2012, Member - Eta Sigma Phi Classical studies honor society

Work Experience

Aug 2013 - | Computer Technician PRO Computers - Chicago, IL

July 2014 Software and hardware troubleshooting and service across a variety of platforms

Hardware repair (including motherboard-level), solutions to software and OS issues on Windows, OS X, and Linux, data recovery, and user support.

Informatics Skills

Programming Languages

Python: Very good knowledge. Python 2 & 3, PEP 8 coding standards, unit-testing, scientific computing with numpy.

C/C++: General knowledge (core aspects of the language).

R: General knowledge (core aspects of the language, applications to machine learning).

Regular Expressions: Good knowledge (Regex in Python, sed, grep).

Bash shell scripting: Good knowledge.

Natural Language Processing:

• Machine learning (Discriminative and Bayesian modelling).

- Language modelling (n-grams, neural networks).
- Computational semantics (distributional semantics, semantic parsing).
- Syntactic parsing (constituent, dependency, CCG).
- Alignment models for machine translation.
- Automatic speech recognition (Hidden Markov Model framework), text-to-speech.

Ontologies: RDF, OWL, SPARQL.

Web technologies: HTML, CSS, XML (utilisation with Python), CGI (Python).

Software: HTK, Festival speech synthesis software, Praat, Wavesurfer, WEKA.

Operating Systems: Linux (Debian, Ubuntu, Arch Linux), OS X, Windows XP - 8.

Languages

English (native), Italian (conversational), some knowledge of German, Spanish, and Chinese, also 4 years study of Ancient Greek.