MichelleFullwood

about

Cambridge, MA maf@mit.edu www.mit.edu/~maf github.com/michelleful

programming

Python, Django, Flask JavaScript, jQuery R, Perl, Matlab/Octave SQL, git

languages

native English
advanced French
Mandarin
intermediate Arabic
elementary Japanese
Hungarian

awards

2011 NSF Graduate
Research Fellowship
Cornell University
2004 Merrill Scholar
2001 College Scholar
2000 Dean's Scholar
2002,2004 Achievement
Awards in Arabic
2000–2004 Dean's List
Government of Singapore
2000 PSC Overseas
Merit Scholarship

National Science Foundation

summary

Graduate student in linguistics with a background in speech and language processing and web development in Python

education

since 2010 Ph.D. program in Linguistics, Massachusetts Institute of Technology

Research on problems in computational morphology and formal phonology Coursework in linguistics, machine learning and Bayesian techniques Teaching assistant in introductory linguistics and phonology

2000-2004 B.A. in Linguistics and Mathematics, Cornell University

Graduated *magna cum laude* and with distinction in all subjects, 4.0 GPA Study abroad, Fall 2003: Budapest Semesters in Mathematics

experience

2008–2010 Web Developer, Imperial Consulting

Boston, MA

Developed web applications, both front and back end, in Python, Django and jQuery, for clients in fields ranging from education to biomedical to finance

2008–2009 External Consultant, Centre for Strategic Infocomm Technologies

Advised client on evaluation procedures in speech and natural language

processing

2004-2008 R&D Engineer, later Consultant,

Centre for Strategic Infocomm Technologies

Singapore

Researched techniques and built engines for speech recognition, language and speaker identification, and cross-language information retrieval

Managed projects to evaluate and acquire systems

2004 Summer Intern, PARC

Palo Alto, CA

Engineered a computational Lexical Functional Grammar to cover the basic

sentence constructions of Modern Standard Arabic

Built a root-and-pattern-based finite state Arabic morphological analyzer

projects

since 2012 Bayesian inference of non-concatenative morphology

Extending state-of-the-art Bayesian techniques for morphological learning to the more complex case of non-concatenative morphology (Arabic, Hebrew) Wrote a Markov Chain Monte Carlo (MCMC) sampler in Python to perform inference on a Bayesian generative model of non-concatenative morphology

2014 Fuzzy Arabic Dictionary

fuzzyarabic.herokuapp.com

Developed a beginner-friendly Arabic dictionary that can be queried without knowing how to spell in Arabic, mashing up the Yamli transliteration service and the free Buckwalter Arabic Morphological Analyzer

since 2013 Volunteer tutor, PyLadies Boston

Deliver presentations on beginner and intermediate Python topics and tutor

women who are learning to program in Python