ROBERT D. STAUBS

- Experience analyzing and modeling text, audio, experiments, and simulations.
- Used statistics, machine learning, and NLP independently, in collaborations, and in courses.
- Created multiple public tools for analysis.
- Communicated work in papers, presentations, and teaching.
- Skills summary:
 - Proficient: Java, JavaScript, Python, R. Experience: C, C++, Matlab, MongoDB, SQL.
 - Logistic regression, experimental design/analysis, on-line learning, agent-based simulation, natural language processing, pandas/scikit-learn/numpy, SVM, MapReduce.

Experience

The MITRE Corporation, McLean, VA: Senior Data Scientist 2016–present
 Analyzed data and developed software for United States government sponsors using Python (e.g. pandas, scikit-learn) and JavaScript (e.g. Node.js, AngularJS).

• Conducted internally-funded research using text analytic and machine learning techniques.

University of Massachusetts Amherst: Senior Personnel, *NSF grant* 2014–2015

- Co-supervised graduate (3) and undergraduate (2) team's experiments and simulations.
- Developed agent-based learning simulations for validating linguistic theories using perceptrons, SGA, and EM (R, Python).

University of Massachusetts Amherst: Lecturer, *Linguistics* 2014–2015

• Designed and led a graduate seminar on computational models of language learning (3 students) and an undergraduate course in phonology (45 students).

The Data Incubator, Washington, DC: Data Science Fellow

2015

2008

2008

- Completed projects on web scraping, SQL, machine learning, NLP, MapReduce, and Spark.
- One of 2% of 3,000 applicants chosen for skill in statistics, data analysis, and programming.

University of Massachusetts Amherst: Consultant; Research Assistant, NSF grant 2009–2011

- Added regular expression entry and additional theoretical options for a new version of a tool used to calculate predictions of phonological theories (Java).
- Implemented multinomial logistic regression library for probabilistic linguistic models (R).

Time Warner Cable, Herndon, VA: Systems Engineering Intern

- Implemented login synchronization (Ruby, LDAP), decreasing downtime.
- Created RPM packaging integration for Ruby code (C).

College of William and Mary, Williamsburg, VA: Instructional Tech

- Designed software for instruction and research (Perl, Java).
- Deployed database management for online surveys (SQL), facilitating design.

Education

University of Massachusetts Amherst, Amherst, MA, USA	2014
 Doctor of Philosophy in Linguistics 	
- Thesis: Computational modeling of learning biases in stress typology	
College of William and Mary, Williamsburg, VA, USA	2009
Bachelor of Science in Computer Science & Linguistics, summa cum laude	

- Thesis: Specialization methods and cataphoricity in coreference resolution