Ian Stewart

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

PhD in human-centered computing (2nd year)

2015 - present | Atlanta, GA
Focus: social computing
Advisor: Jacob Eisenstein

DARTMOUTH COLLEGE

A.B. in Linguistics (cum laude)
Minor in Computer Science
2010 - 2014 | Hanover, NH
GPA: 3.79 (cum.) 3.90 (major)
Thesis: African American English syntax in Twitter
Advisors: James Stanford and Sravana Reddy

COURSEWORK (SELECTED)

GRADUATE

Natural Language Understanding
Statistical Methods
Design of Online Communities
Social Computing
Information Visualization

UNDERGRADUATE

Introduction to Artificial Intelligence
Discrete Mathematics
Problem Solving with Computer Science
Computational Linguistics
Dialectology
Field Methods in Linguistics
Experimental Phonetics

SKILLS

PROGRAMMING

Java (proficient) • Python (proficient) • R (intermediate) • LaTeX (intermediate) • Javascript (beginner)

PACKAGES

sklearn • statsmodels • gensim • nltk • Weka • Gephi • Beautiful Soup • pandas

LANGUAGES

French (fluent) • Japanese (intermediate) • Spanish (beginner) • Maori (beginner)

WORK

PACIFIC NORTHWEST NATIONAL LABORATORY | National Security Internship Program

May – Aug 2016 | Richland, WA
- Advised by Dr. Svitlana Volkova.
- Researched change in word meanings over time with distributional semantics.
- Implemented and tested automated techniques, such as time series clustering, to detect short-term shifts in language usage on social media.

GEORGIA TECH | Teaching Assistant

Aug – Dec 2015 | Atlanta, GA
- Introduction to Artificial Intelligence (CS 6601).
- Designed homework assignments that required implementation of AI algorithms in iPython notebooks.
- Prepared documentation for assignments to help transition the class to an online platform.

CHARLES RIVER ANALYTICS | Software Engineering Intern

June 2014 – Aug 2015 | Cambridge, MA
- Contributed to agent-based social network generation model (in AnyLogic and Java MASON), in collaboration with two scientists.
- Designed pipeline for social network synthesis and analysis, using metrics such as the network clustering coefficient and community modularity.
- Extracted parameters from large-scale social media data for network generation model, such as distribution of languages across users.

RESEARCH

COMPUTATIONAL LINGUISTICS LAB | Research Assistant

Aug 2015 – present | Atlanta, GA
- Investigating the existence of lexical niches on social media, quantified through word embeddings.
- Comparing the influence of social and semantic distinction on word adoption success.

LINGUISTICS DEPARTMENT | Undergraduate Researcher

Dec 2013 – June 2014 | Hanover, NH
- Designed regular expressions to extract non-standard sentence patterns (syntax) characteristic of African American English (AAE).
- Determined correlation between AAE and community-level demographics with linear and logistic regression (e.g. lower percentage AAE in communities with higher median age).
- Presented at 2014 meeting of the European Association for Computational Linguistics in Gothenburg, Sweden.

AWARDS

2017	NSF GRF Honorable Mention	National Science Foundation
2016	Tuition Reimbursement Award	Pacific Northwest National Laboratory
2015	Great Promise Award	Charles River Analytics