

Ian Stewart

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

PHD IN HUMAN-CENTERED
COMPUTING (2ND YEAR)
2015 - 2020 | 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 / 4.0
Thesis: African American English
syntax in Twitter
Advisors: James Stanford and
Sravana Reddy

LINKS

Github: [@ianbstewart](#)
Twitter: [@alethioguy](#)

COURSEWORK (SELECTED)

GRADUATE

Natural Language Understanding
Statistical Methods
Design of Online Communities

UNDERGRADUATE

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

SKILLS

PROGRAMMING

Java (proficient) • Python (proficient) • R
(intermediate) • \LaTeX (intermediate)

PACKAGES

sklearn • statsmodels • gensim • nltk •
Weka • BeautifulSoup

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.
- Researching change in word meanings over time with computational semantics.
- Implementing and testing automated analysis techniques for large-scale social media data.

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.
- Reviewed and reinforced class material in office hours and in online forum.
- Facilitated learning activities during class lectures.

CHARLES RIVER ANALYTICS | SOFTWARE ENGINEERING INTERN

June 2014 - Aug 2015 | Cambridge, MA

- Contributed to agent-based social network generation model in collaboration with two scientists.
- Designed pipeline for social network synthesis and analysis.
- Extracted network- and content-based parameters from social media data for network generation model."
- Funded by the Defense Advanced Research Projects Agency.

RESEARCH

COMPUTATIONAL LINGUISTICS LAB | GRADUATE RESEARCH ASSISTANT

Aug 2015 - present | Atlanta, GA

- Developing automated techniques to analyze orthographic (spelling) variation in social media.
- Testing edit distance metrics and their application to orthographic variation.
- Modeling the split between individual and community-level language variation over time (e.g. if an individual's language diverges from the community's language).

LINGUISTICS DEPARTMENT | UNDERGRADUATE RESEARCHER

Dec 2013 - June 2014 | Hanover, NH

- Analyzed sociolinguistic patterns in Twitter text data.
- Designed regular expressions to extract non-standard sentence patterns (syntax) characteristic of African American English (AAE).
- Determined correlation between AAE and community-level demographics (e.g. higher percentage AAE in communities with higher median age).
- Presented at 2014 meeting of the European Association for Computational Linguistics in Gothenburg, Sweden.

AWARDS

2015	Great Promise Award	Charles River Analytics
2014	Fulbright English Teaching Assistantship (declined)	Fulbright Program