

# 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) •  $\text{\LaTeX}$  (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

2016	Tuition Reimbursement Award	Pacific Northwest National Laboratory
2015	Great Promise Award	Charles River Analytics
2014	Academic Achievement Award	Dartmouth College Linguistics Department