Michelle A. McSweeney

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Summary .

Computational linguist seeking to improve dating through better messaging. Over six years experience in text analysis, corpus development, and natural language processing. Award-winning presenter, podcaster, and published author on the language of text messaging.

Experience _

Director of Data Quality and Annotation

NLP, MACHINE LEARNING, DATA MANAGEMENT, RESEARCH & DEVELOPMENT

Oversee data quality for building machine learning models in 10 languages. Evaluate and maintain performance of over 150 classifiers. Standardized data selection, cleaning, annotation, arbitration, and input processes. Wrote annotation guidelines for 16 tasks; hired, trained, and manage 54 freelance coders. Decreased time to product by 30% with better data handling. Developed bootstrapping technique to maximize sparse data. Saved over \$20,000 in coding costs in 3 months with statistical techniques to measure reliability.

Teach Data Analysis with R, Data Visualization with Tableau, Mapping with QGIS, Linguistics, and Developmental Mathematics Courses.

Assistant Professor and Lecturer

DATA ANALYSIS, DATA VISUALIZATION, LINGUISTICS, MATH

Projects _

Digital Communication of Bilingual Youth

NLP/Text Analysis/Annotation/Classification

Analyzed texting behavior of 50 students by ranking key word usage in 45,000 messages using Python (NLTK, SpaCy, Pandas); found that abbreviations and emojis spread in networks, but punctuation and laughter do not. Used machine learning (linear regression, sklearn) to predict if a message is between a romantic or platonic pair. Discovered patterns between literacy and digital fluency.

Polarizing Narratives

NLP/Web Scraping/Topic Modelling/Sentiment Analysis Scraped articles on polarizing topics and used topic modeling to find differences in argument structure by political affiliation.

Conflict Urbanism: Urban Language Ecologies

QGIS/DATA COLLECTION/PROJECT MANAGEMENT Visualized spatial organization of languages in NYC to illustrate that transportation and rent affect language maintenance.

Languages Above the Subway

QGIS/HTML/CSS/DATA VISUALIZATION Aug 2012 - Aug 2014 Analyzed the languages spoken around each subway station with QGIS, visualized the results as line charts on an interactive website.

Education

2016 PhD, Linguistics, The Graduate Center at CUNY, New York, NY

- Certificate, Interactive Technology & Pedagogy, The Graduate Center at CUNY, New York, NY 2014
- 2004 B.A., Chemistry & Mathematics, Michigan State University, East Lansing, MI

Publications & Media Coverage _

- The Pragmatics of Text Messaging, ,Routledge. | Network Analysis of Feature Adoption, LSA 91, 2018 Salt Lake City, UT. || Buzzfeed, Jul | Gioia! Aug | La Repubblica, Oct
- Chatting with the Natives, , Harvard Design Magazine (44). | Texting and academic proficiency, 2017

Language 2(3). || New York Times, Jul | New York Magazine, Jun

Skills

Programming Python: SciKit-Learn, Pandas, NLTK, TextBlob, SpaCy | R | Javascript: Leaflet | Web: Django, HTML, CSS Software QGIS, Tableau, Brandwatch, Excel

Sep 2018 - Present

Converseon Al

Pratt, Columbia, CUNY, LCC

Aug 2005 - Jan 2007 & Jul 2011 - Present

CUNY Graduate Center

May 2014 - Sep 2017

Columbia University Jan 2018 - Aug 2018

Columbia University

Sep 2016 - Jan 2018

CUNY Graduate Center