

KEVIN KENT

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EXPERIENCE

Nuance Communications - Site Reliability Engineering December 2019 - Present
Senior Data Scientist

- Build analytical models to support decisions around cloud capacity, root cause investigations, and deployments for Nuance's Dragon Medical products.

The Data Incubator June 2019 - August 2019
Fellow

- Participated in an eight-week intensive data science fellowship that was fully funded by the Data Incubator. Completed weekly projects on SQL, web scraping, machine learning, natural language processing, time series analysis, spark, and tensor flow.
- For my capstone project, I conducted time-series analysis to forecast NYC 311 call volume using **Facebook's Prophet API** and **Random Forest Regression**.

Center for Applied Special Technology (CAST) July 2017 - June 2019
Research Associate and Instructional Designer

- Visualized the interaction sequences in online learning tools using a network graph of pairwise counts, **markov chains**, and sunburst diagrams
- Analyzed survey data using **multivariate linear regression** and **logistic regression** to predict the educational practice of colleges and universities
- Analyzed a 19.8 MB science notebook text response dataset using Epistemic Network Analysis and **TFIDF** to understand the connections students make between science concepts, after cleaning for stopwords and correcting for misspellings using the Levenshtein string distance algorithm
- Conducted **sample entropy**, **recurrence quantification analysis**, and **detrend fluctuation analyses** on 100.4 MB eye tracking data to understand how the structure of variability of eye movements related to a learners self-reported emotional state
- Led a subgroup through stages of problem discovery and analysis, prototyping (in **R Shiny**), wire-framing, testing, and implementation of a data dashboard for teachers
- Supervised and mentored a UX research masters-level intern
- Communicated analysis findings on a weekly basis to teams of content experts, developers, research scientists and designers.

Arizona State University (SoLET Lab) August 2015 - June 2017
Research Specialist

- Facilitated the implementation of web-based tutoring systems in classrooms by presenting to, working with, and assessing the needs of teachers and school stakeholders.
- Led the design, facilitation, and analysis of one-on-one interviews, online surveys, focus groups, and usability sessions to improve the efficacy and implementation of web-based tutoring systems

EDUCATION

Harvard Graduate School of Education August 2014 - May 2015
Master of Education - Mind, Brain, and Education

Hobart College August 2008 - May 2012
Bachelors of Arts - Urban Studies (Minor in Mathematics)