Aaron Springer

aaronlspringer@gmail.com

Related Work Experience

Research Intern at Spotify   **July 2017 – December 2017**
Supervisor: Henriette Cramer
- Identified data and algorithmic biases detrimental to performance in a voice interface
- Developed and implemented a method to fix these biases
- Project is in use and patent pending

Research Intern/Visiting Researcher at Xerox PARC   **Summer 2016 – Present**
Supervisor: Peter Pirolli
- Designed and orchestrated longitudinal randomized controlled trial, completed data analysis, and wrote conference submission

Research Assistant at University of California Santa Cruz   **Fall 2014 – Present**
Research Supervisor: Steve Whittaker
- Designed and implemented production machine learning backend forecasting personal mood and recommending positive activities
- Predicted effective online argumentation from contextual and semantic text features
- Qualitatively evaluated user trust in an algorithmic system

Relevant Skills

Machine Learning: Regression, Classification, Distributed Representation (Word2Vec), Neural Networks, Natural Language Processing, Clustering
Quantitative Analysis: Linear Mixed Effects Models, Survival Analysis, Generalized Linear Models, Analysis of Variance, Time Series Modeling and Forecasting
Research Methods: Randomized Controlled Trials, Field Study, Quantitative and Qualitative Survey Design, Grounded Theory, Heuristic Evaluation, User Interviewing
Programming Languages: Python, R, Javascript, Java, HTML5, SQL + BigQuery

Education

University of California Santa Cruz   **Expected 2019**
Ph.D. Computer Science
Relevant Graduate Coursework: Machine Learning, Deep Learning, User Testing and Evaluation, Computational Models of Discourse and Dialog, Crowdsourcing

Eastern Mennonite University   **April 2013**
B.S. Computer Science; Mathematics Minor
Honors Program; GPA 3.75/4.0 – Cum Laude

Selected Publications

Aaron Springer, Henriette Cramer. "Play PRBLMS": Identifying and Correcting Less Accessible Content in Voice Interfaces. CHI 2018.
Aaron Springer, Victoria Hollis, Steve Whittaker. Dice in the Black Box: User Experiences with an Inscrutable Algorithm. 2017 AAAI SS.
Aaron Springer, Steve Whittaker. What Are You Hiding? Algorithmic Transparency and User Perceptions. 2018 AAAI SS.
Aaron Springer, Jean Garcia-Gathright, Henriette Cramer. Assessing and Addressing Algorithmic Bias – But Before We Get There… 2018 AAAI SS.