Danielle.Smalls

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Experience

Data Scientist | IST Research | Arlington, VA | *April 2017 - Current*
• Created new and modified existing tools to capture and analyze data gathered from hard to reach areas
• Integrated analytical tools into social media data collection pipeline (Twitter, Facebook, Youtube)
• Built and implemented the analytical structure for ground-truth surveys regarding human trafficking, maternal health, military withdrawal, and other socio-political issues
• Curated reports from active and passive monitoring architectures
• Applied hidden population estimator to gage prevalence of human trafficking

Deployment Strategist | IST Research | Arlington, VA | *July 2016 - Current*
• Performer on DARPA's Memex Program assisting initiative to scrape the Dark Web for illicit activities
• Facilitated trainings for law enforcement to use tools that aid in anti-human trafficking investigations
• Performed ad-hoc data analysis during Memex's research and development phase

People Analytics Intern | SAIC | McLean, VA | *May 2015 - February 2016*
• Converted complex and unstructured data points into actionable business intelligence for executive leadership
• Performed standard and ad-hoc analysis of the workforce using predictive analytics and statistical methodologies
• Assisted with leadership transition during new company acquisition

Undergraduate Research Assistant | Virginia Tech | Blacksburg, VA | *May 2013 - May 2016*
• Re-designed survey tool to increase undergraduate response rates
• Facilitated data collection through interviews and "think-alouds"

Presentations

"Leading Ladies in STEM and Art" at George Washington University
Panelist for SUPERGirls Shine Foundation discussing female engagement and empowerment in STEM fields (2018)

"Does Motivation Matter for Conceptual Change: Developing Effective Qualitative Research Approaches."
ASEE Annual Conference and Exposition (2015)

"Do You Want to Take a Survey? Exploring Tools to Increase Undergraduate Student Response Rates to Real-Time Experience Surveys." *Danielle Smalls, Dr. Holly Matusovich, Dr. Rachel Mccord*
ASEE Annual Conference and Exposition (2014)
Conference on Higher Education Pedagogy (2013)

Education

Virginia Tech — B.S. Statistics

Technical Skills

Machine learning: NLP (topic modeling), classification, neural nets (seq to seq learning)
Statistical methods: regression, confidence intervals, Bayesian techniques

Software and programming languages: Python (keras, numpy, scipy, pandas, gensim), R (tidyverse, flexdashboard), Elastic Search, Spark, Hugo

Related Coursework: Machine Learning, Linear Algebra, Probability and Statistics, Bayesian Statistics, Coursera Deep Learning Specialization (Currently 1 of 5)