

DAN VATTEROTT

New York, NY

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PROFESSIONAL EXPERIENCE

Showtime Inc | New York, NY

May 2017 – Present

Data Scientist

- Built data-pipeline using Python and Spark that transforms data describing the behavior of millions of customers into business relevant insights.
- Built machine learning model that predicts customer behavior and automatically relays these predictions throughout the company.

Insight Data Science | New York, NY

January 2017 – May 2017

Data Science Fellow

- Built *Sifting the Overflow* (www.siftingtheoverflow.com), a chrome extension that highlights the most helpful parts of Stack Overflow answers
- Collected 500,000 Stack Overflow answers and stored these answers in a Postgres database
- Used Beautiful Soup to interpret HTML and NLTK to parse the unstructured, text data
- Trained a recurrent neural network with a GloVe word embedding to identify helpful portions of Stack Overflow answers (trained with an AWS P2 instance)
- Built a web-app front-end describing my chrome extension using Flask and AWS

Columbia University | New York, NY

June 2015 – January 2017

Postdoctoral Research Fellow | *Department of Neuroscience*

- Used Machine Learning algorithms to describe the relationship between neural signals and the choice of where to pay attention
- Used k-means clustering and PCA to extract eye-movement and electrophysiological signals from experimentally collected data
- Built linear discriminant analysis classifier that used neural signals to predict distractibility
- Developed interactive, real-time tasks that react according to participants' eye-movements
- Mentored and managed 2 full-time technicians in experimental design, programming, and statistics

University of Iowa | Iowa City, IA

August 2010 – June 2015

Graduate Researcher | *Department of Psychology*

- Built regression and ANOVA models that describe where people will direct their attention
- Taught 5 courses on topics such as Research Methods and Statistics (rated 5.8/6 by students)
- Managed 10+ independent research projects from conception to dissemination
- Published 8 research articles and presented at 10 international conferences

EDUCATION

University of Iowa | Iowa City, Iowa

August 2010 – June 2015

Doctor of Philosophy, Psychology, Concentration in Cognition and Perception

University of Wisconsin | Madison, Wisconsin

August 2006 – May 2009

Bachelor of Science, English and Psychology

SKILLS

Programming: Python (NumPy, Pandas, Sci-Kit Learn, Matplotlib, Keras), Spark, JavaScript (d3)

Data Analysis: Regression (GLM), Classification (Xgboost, neural networks), Hypothesis Testing (ANOVA, t-tests), Unsupervised Learning (k-means clustering, GMM)

Databases: SQL