DAN VATTEROTT

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PROFESSIONAL EXPERIENCE

Insight Data Science | New York, NY **January 2017 – Present**

Data Science Fellow

- Developed *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 text
- Trained a recurrent neural network with a GloVe word embedding to identify helpful portions of Stack Overflow answers
- Designed a web-app front end using Flask for hosting and describing my chrome extension

Columbia University | New York, NY **June 2015 – January 2017**

Postdoctoral Research Fellow | *Department of Neuroscience*

- Built generalized linear models that 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 uses neural signals to predict distractibility
- Programmed 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*

- Developed regression and ANOVA models that predict 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

Saint Paul Heart Clinic | St. Paul, MN **August 2009 – August 2010**

Research Assistant | *Cardiology Clinic*

- Organized data of 1000+ heart failure patients in an effort to find variables that predict changes in heart failure symptoms
- Developed echocardiography methods for predicting the result of pace-maker implantations, which resulted in 2 publications

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, Keras, Matplotlib), MATLAB
Data Analysis: Regression (GLM), Classification (LDA, neural networks), Hypothesis Testing (ANOVA, t-tests), Unsupervised Learning (k-means clustering, GMM)
Databases: Postgresql