

JANELLE SZARY

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EDUCATION

- University of California, Merced | Ph.D. Cognitive and Information Sciences** 2015
Selected coursework: Machine Learning, Computational Cognitive Neuroscience, Spiking Neural Networks, Computer Vision, Nonlinear Methods, Neuromorphic Cognition Engineering.
- New York University | B.A. Psychology** 2008

EXPERIENCE

- Fellow, Insight Data Science** *May 2017 – Present*
- Developed *IntuiShop* platform in Python that allows e-commerce shoppers to use intuitive search terms then recommends products that match their styles using (janelleszary.com/intuishop).
 - Extracted high-level semantic features from both text and images using deep learning, computer vision, and dimensionality reduction in Python using keras, gensim, and sci-kit learn.
 - Suggested changes in category labels to an e-commerce fashion company that more accurately capture differences in products based on unsupervised learning methods.
- Post-Doctoral Research Scientist, Indiana University Cognitive Computing Laboratory** *Sept. 2015 – May 2017*
- Predicted likelihood of ADHD, Alzheimer's, and Schizophrenia diagnoses by comparing semantic models, enabling clinicians to identify high-risk subjects in an objective and timely manner.
 - Engineered features of semantic networks using word2vec and LSA.
 - Acquired and cleaned large data sets for research projects, including behavioral data from several universities and hospitals as well as large-scale linguistic corpora such as Wikipedia, GoogleNews, and COCA.
- Graduate Student Researcher, University of California, Merced** *Aug. 2009 – Aug. 2015*
- Identified features of interactions that result in effective communication by performing A/B tests and modeling multi-modal behaviors including survey responses, whole-body movement, vocal pitch, and rhythm.
 - Trained a neural network in C++ which perform object classification and path prediction in MATLAB.
 - Communicated findings to the scientific and non-scientific communities in over 20 presentations and publications, including invited visits to the State and United States Capitol buildings.
- Vice President, Graduate Student Association, University of California, Merced** *Aug. 2011 – Sept. 2014*
- Represented the graduate community in negotiations with other units both within and outside the University.
 - Elected to serve on several administrative committees (Student Fee, Sustainability, Committee on Women).
 - Co-founded the Women in Science and Engineering program, which grew to 30+ members within the first year and brought over a dozen industry and academic leaders to speak at campus events.

SKILLS

Programming: Proficiency in Python (numpy, scikit-learn, pandas, gensim, keras), R (ggplot), MATLAB, LaTeX. Experience in CSS/HTML, C++, Java, SQL, Git, Flask.

Data Analysis: Deep learning, unsupervised learning, dimensionality reduction, regression, classification, A/B testing, model comparison.

Teaching: 11 undergraduate-level classes, 1 as primary instructor.