

Abbie M. Popa, ScB

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UC Davis Neuroscience Graduate Group

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EDUCATION **PhD University of California at Davis** (September 2012 - June 2018)
Dissertation: Behavior and EEG Testing of Teen Anxiety
Data Science Initiative Affiliation
Honors ScB., Brown University (September 2006-December 2010)
Major: Cognitive Neuroscience

TECHNICAL SKILLS Software including: Python, R, Matlab, Jupyter, git, SQL, SPSS, DataGraph, L^AT_EX
Packages including: sklearn, pandas, numpy, scipy, matplotlib, TensorFlow, keras, ggplot, nlme

TECHNICAL EXPERIENCE **UC Davis MIND Institute** Sacramento, CA
PhD Researcher September 2012 - present

- Used k-means clustering to organize behavioral, eye-tracking, and self-report measures
- Used ICA to isolate brain activity from noise in EEG data
- Used mixed effects linear modeling to identify patterns in participants behavior over time
- Predicted children's outcomes from regression on 500GB of MRI brain development data
- Developed 6 child-friendly computerized behavior tests (disguised as games)
- Trained and mentored 4 junior research assistants and 7 volunteer interns
- Resulted in 4 manuscripts (in progress) and 18 conference presentations (completed)
- Received 3 travel awards in recognition of my work

Davis Incubator Group Student organized group at UC Davis
President September 2016 - present
Member January - August 2016

- Completed online coursework in python, SQL, and machine learning
- Completed 2 collaborative Kaggle image classification challenges using skimage, TensorFlow, tflearn, keras, OpenCV and PIL on an AWS machine to efficiently localize and classify images through convolutional neural networks for datasets up to 100 GB.
- Completed a collaborative Driven Data competition using pandas and sklearn to finish in the top 10% of competitors
- Developed individual projects using tools including sklearn in Python, and nnet in R
- Organized and scheduled meetings for a group of 6-8 data scientists

UC Davis Data Science Initiative Davis, CA
Affiliate April 2016 - present

- Contributed to a collaborative reading group on *Think Python* where we read and discussed the chapters and implemented the exercises as well as elaborated on best practices
- Implementing *An Introduction to Statistical Learning* collaboratively using Python and packages including statsmodels, scipy, numpy, pandas, sklearn, matplotlib, and seaborn
- Consulted with members of the UC Davis community on data science problems from twitter scraping to genomics as part of team un-seminars

LEADERSHIP AND COMMUNITY EXPERIENCE **Intertational Rescue Committee**
Refugee Empowerment Volunteer January 2017 - October 2017
Explorations, UC Davis Undergraduate Research Journal
Editor February 2015 - August 2015
Managing Editor, Physical and Life Sciences September 2015 - June 2017
Neuroscience Initiative to Enhance Diversity
Student Organizer Event held April 2016