

Abbie M. Popa, ScB

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UC Davis Neuroscience Graduate Group

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EDUCATION	PhD University of California at Davis , Davis, CA, (September 2012 - December 2017) Major: Cognitive Neuroscience with a Data Science Initiative Affiliation Honors ScB. , Brown University, Providence, RI, (September 2006-December 2010) Major: Cognitive Neuroscience	
TECHNICAL SKILLS	R, Matlab, Python, Jupyter, git, SQL, SPSS, DataGraph, L ^A T _E X , HTML, CSS Packages including ggplot, nlme, sklearn, pandas	
PROJECTS	Kaggle Done Quick: Animal Shelter Predictions FastText Horror Author Classification Driven Data: Blood Drive Donations <ul style="list-style-type: none">• Cleaned data in pandas to account for outliers and unusual distributions• Used sklearn to cross-validate multiple models, eventually selecting random forest classification• Collaborated with three other data scientists• Finished in the top 10% of competitors Kaggle: Fish Identification <ul style="list-style-type: none">• Used skimage, tensorflow, and tflearn to classify fish images from a kaggle data set• Collaborated with three other data scientists to apply convolutional neural networks	
TECHNICAL EXPERIENCE	PhD Researcher Davis, CA	UC Davis MIND Institute and Neuroscience Graduate Group September 2012 - present <ul style="list-style-type: none">• Developed 6 child-friendly computerized behavior tests (disguised as games)• Used k-means clustering to classify children as "copers" or "strugglers" based on behavioral, eye-tracking, and self-report measures• Used ICA to isolate brain activity from noise in EEG data• Used non-linear modeling to classify participants behavior over time• Used linear regression to correlate trajectories of brain development and children's outcomes in a large (500 GB) dataset• Programmed data analyses and visual stimuli using R, Python, and Matlab• Trained and mentored four junior research assistants and seven volunteer interns Davis Incubator Group Davis, CA President Member <ul style="list-style-type: none">• Completed online coursework in python, SQL, and machine learning• Participated collaboratively in online machine learning competitions, finishing in the top 10% of a drivendata.org competition• Organized and scheduled meetings for a group of 6-8 data scientists to practiced coding, machine learning, and share data science skills
LEADERSHIP AND COMMUNITY EXPERIENCE	International Rescue Committee Refugee Empowerment Volunteer (Focus on Computer Support/Literacy) (Jan 2017 - Present) Explorations, UC Davis Undergraduate Research Journal Editor (Feb - June 2015) Managing Editor (Sept 2015 - Present)	

Neuroscience Initiative to Enhance Diversity
Student Organizer
Neurobiology (class of 200 undergraduates)
Teaching Assistant

(Event held April 2016)

(April - June 2015)