

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 ^A T _E X Packages including: sklearn, pandas, numpy, scipy, matplotlib, TensorFlow, keras, ggplot, nlme	
TECHNICAL EXPERIENCE	UC Davis MIND Institute	Sacramento, CA
	<i>PhD Researcher</i>	September 2012 - present
	<ul style="list-style-type: none">• 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
	<i>President</i>	September 2016 - present
	<i>Member</i>	January - August 2016
	<ul style="list-style-type: none">• 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
	<i>Affiliate</i>	April 2016 - present
	<ul style="list-style-type: none">• Contributed to a collaborative reading group on <i>Think Python</i> where we read and discussed the chapters and implemented the exercises as well as elaborated on best practices• Implementing <i>An Introduction to Statistical Learning</i> 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	
	<i>Refugee Empowerment Volunteer</i>	January 2017 - October 2017
	Explorations, UC Davis Undergraduate Research Journal	
	<i>Editor</i>	February 2015 - August 2015
	<i>Managing Editor, Physical and Life Sciences</i>	September 2015 - June 2017
	Neuroscience Initiative to Enhance Diversity	
	<i>Student Organizer</i>	Event held April 2016