

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^AT_EX , HTML, CSS
Packages including ggplot, nlme, sklearn, pandas

PROJECTS **Kaggle Done Quick**
FastText Horror Author Classification
Driven Data: Blood Drive Donations
Kaggle: Fish Identification

TECHNICAL EXPERIENCE **PhD Researcher** UC Davis MIND Institute and Neuroscience Graduate Group
Davis, CA September 2012 - present

- 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 Student organized group at UC Davis
Davis, CA January 2016 - Present
Member (January - August 2016); President (September 2016 - present)

- 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)
Neurobiology (class of 200 undergraduates)
Teaching Assistant (April - June 2015)