

## 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<sup>A</sup>T<sub>E</sub>X , 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)