Abbie M. Popa, ScB

UC Davis Neuroscience Graduate Group

abbiepopa@gmail.com linkedin.com/in/abbiepopa $\frac{401\text{-}440\text{-}5228}{\text{github.com/abbiepopa}}$

EDUCATION

PhD University of California at Davis

(September 2012 - December 2017)

Major: Cognitive Neuroscience with a Data Science Initiative Affiliation

Honors ScB., Brown University (September 2006-December 2010)

Major: Cognitive Neuroscience

TECHNICAL SKILLS

Python, R, Matlab, Jupyter, git, SQL, SPSS, DataGraph, LATEX, HTML, CSS Packages including TensorFlow, sklearn, ggplot, nlme, pandas, tflearn

TECHNICAL EXPERIENCE

PhD Researcher

Davis, CA

UC Davis MIND Institute and Neuroscience Graduate Group 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 (approximately 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 (September 2016 - present)

President

(January - August 2016)

(Sept 2015 - Present)

Member

• Completed online coursework in python, SQL, and machine learning

- Completed two collaborative Kaggle competitions 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.
- \bullet Completed a collaborative Driven Data competition using Pandas and sklearn to finish in the top 10% of competitors
- Developed and shared individual work using tools including Facebook's publically available package FastText
- 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

Managing Editor

Editor (Feb - June 2015)

Neuroscience Initiative to Enhance Diversity

Student Organizer (Event held April 2016)

Neurobiology (class of 200 undergraduates)

Teaching Assistant (April - June 2015)