

## Abbie M. Popa, Ph.D.

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### TECHNICAL EXPERIENCE

#### App Annie

*Senior Data Scientist*

San Francisco, CA

August 2019 - present

- Building machine learning models to help businesses navigate the mobile app marketplace
- Modelling likely causes of interesting events to surface insights to our customers in the Data Stories product
- Leading adoption of best practices including version control, continuous integration, and code review among the data science team

#### Cogitativo (healthcare consulting start-up)

*Data Science Intern*

Berkeley, CA

April 2019 - June 2019

- Developed models, metrics, and Tableau dashboards from millions of records stored in AWS Redshift to understand healthcare operations data.

#### The Data Institute at the University of San Francisco

*Data Science Postdoctoral Fellow*

San Francisco, CA

August 2018 - July 2019

- Described [nodes in brain networks](#) from patients with schizophrenia and healthy controls using self-supervised machine learning (feature embeddings)
- Contributing to a web-based app for mass processing of electroencephalography (EEG)
- Consulted on collaborations with 3 private sector companies using computer vision and natural language processing
- Managed projects resulting in 2 published IEEE proceedings using PySpark and SparkML to make predictions on EEG data in collaboration with other researchers
- Instructed and developed an Introduction to Data Science class for 36 undergraduates
- Completed deep learning coursework using fast.ai and PyTorch (fast.ai certification course)

#### University of California at Davis

*Ph.D. Researcher*

Davis, CA

September 2012 - June 2018

- Used techniques including mixed effects linear modeling, k-means clustering, and ICA interpret data in participants' behavior and brain activity over time
- Trained and mentored 6 junior research assistants and 7 volunteer interns
- Produced 4 manuscripts (2 accepted) and completed 18 conference presentations
- Helped run a group for graduate students on machine learning and data science
- Consulted with members of the UC Davis community on data science problems from twitter scraping to genomics as an affiliate of the Data Science Initiative

### TECHNICAL SKILLS

Software include: PySpark, Python, R, git, PostgreSQL  
Packages include: sklearn (contributor), pandas (contributor), NumPy, SparkML, PySparkSQL

### EDUCATION

**Ph.D.**, University of California at Davis, Neuroscience  
**Honors Sc.B.**, Brown University, Cognitive Neuroscience

### LEADERSHIP AND COMMUNITY EXPERIENCE

#### Software Carpentry

*Certified Instructor for bash, git, R, and Python*

May 2018 - Present

#### International Rescue Committee

*Refugee Empowerment Volunteer*

January 2017 - October 2017

#### Explorations, UC Davis Undergraduate Research Journal

*Editor*

February 2015 - August 2015

*Managing Editor, Physical and Life Sciences*

September 2015 - June 2017