

Abbie M. Popa, Ph.D.

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TECHNICAL EXPERIENCE

Merck

Remote

Associate Director of Data Science

September 2021 - Present

- Delivered informed patient file for triple-negative breast cancer market-sizing for Keytruda, Merck's premier immunotherapy drug
- Produced drug regimen summary and forecasting for renal cell carcinoma to support the launch of Merck's first CTLA4 inhibitor (immunotherapy)
- Building forecasting tools for self-service estimation and experimentation

App Annie

San Francisco, CA

Staff Data Scientist

April 2021 - August 2021

- Built machine learning models to help businesses navigate the mobile app marketplace
- Led two data scientists on prioritization and planning of model improvements
- Sustained and improved downloads and revenue models, App Annie's core product
- Modeled user acquisition for apps across four paid and organic [channels](#)
- Received quarterly company-wide [award](#) for collaboration and going above and beyond

Senior Data Scientist

August 2019 - April 2021

- Modeled likely causes of anomalous events in the Insights (formerly [Data Stories](#)) product
- Increased the accuracy of our core model in predicting extremely well-performing apps, resulting in a significant decrease in customer support tickets
- Led adoption of best practices including version control, continuous integration, and code review among the data science team

Cogitativo (healthcare consulting start-up)

Berkeley, CA

Data Science Intern

April 2019 - June 2019

- Identified non-recommended procedures from millions of records in AWS Redshift
- Developed tables of metrics to summarize new payment integrity findings for our clients
- Built a Tableau dashboard to visualize anomalous behavior of home healthcare providers

The Data Institute at the University of San Francisco

San Francisco, CA

Data Science Postdoctoral Fellow

August 2018 - July 2019

- Described [nodes in brain networks](#) from patients with schizophrenia and healthy controls using self-supervised machine learning (feature embeddings) resulting in one publication in Network Science (respected peer-reviewed journal)
- Consulted on collaborations with 3 private sector companies using computer vision and natural language processing including deep learning
- Managed projects resulting in 2 published IEEE proceedings using PySpark and SparkML to make predictions on EEG data in collaboration with other researchers

University of California at Davis

Davis, CA

Ph.D. Researcher

September 2012 - June 2018

- Used techniques including mixed effects linear modeling, k-means clustering, and ICA to interpret participants' behavior and brain activity over time resulting in 4 publications and 18 conference presentations
- Trained and mentored 6 junior research assistants and 7 volunteer interns
- 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 including: PySpark, Python, R, git, PostgreSQL, Tableau
Packages including: PySparkSQL, SparkML, sklearn (contributor), pandas (contributor), NumPy

EDUCATION

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