Danny M. Maruyama

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Experience

Kernel   May 2019 - November 2019
                                                                          Los Angeles, CA

Machine Learning Scientist
First Machine Learning Scientist hire. Responsible for data exploration, problem framing, and neural algorithm development on novel data.
- Built state-of-the-art signal processing and decoding pipeline to decode human behavior from neural data
- Identified opportunities for 5 FTEs to collaborate and develop the core data pipeline
- Led toolset and process adoption across data group, ex: VCS, documentation, tests

Samba TV   March 2016 – May 2019
                                                                          San Francisco, CA

Senior Data Scientist & Data Science Manager
Led the Viewership team, responsible for measuring and improving viewership assignment algorithms which are the backbone for all of Samba TVs data products.
- Drove process development, road mapping, and documentation adoption across the Data team
- Worked cross-functionally to define and iterate upon successful KPIs for engineering, product, and business teams
- Identified and initiated a data recovery effort resulting in a 50% improvement in the company's principal data metric
- Led DS design, evaluation, and tuning of a TV Recommendation System and a TV Device Graph
- Designed, built, and tuned pyspark pipelines to extract unbiased viewing behavior from millions of TVs

Graduate Researcher, Systems Neuroscience   2009 - 2015
                                                                          Ann Arbor, MI

Calculated the functional connectivity between neurons in order to quantify the stability and evolution of neuronal networks
- Discovered the first known indication of network level learning in mice via my stability measure
- Created a high speed time series method for assessing functional relationships between neurons in C++. New approach was 10x better at signal detection, and ~10^4 x more efficient

Education

Insight Data Science Program, Fellow   2015
                                                                          Palo Alto, CA

PhD Physics, University of Michigan, Ann Arbor   2015
Thesis Concentration: Systems Neuroscience   *Ann Arbor, MI*

BA Mathematics and Physics, UC, Berkeley   2008
Thesis Concentration: Cosmology   *Berkeley, CA*

Skills

Languages: Python, Spark, SQL, MATLAB, HTML
Tools: SparkML, Databricks, Scikit-learn, AWS, Jenkins, Atlassian