

# Danny M. Maruyama

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## Experience

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### Kernel

May 2019 - October 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  $\sim 10^4$  x more efficient

## Education

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### 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

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**Languages:** Python, Spark, SQL, MATLAB, HTML

**Tools:** SparkML, Databricks, Scikit-learn, AWS, Jenkins, Atlassian