Jong Ho Park

2333 Fulton St,
Berkeley, CA 94704

949.870.8409
jjhpark@berkeley.edu

Research

Optimization in Machine Learning — *advised by Prof. John Canny*
January 2017 - Present

Working on modified Markov Chain Monte Carlo method to encourage more efficient mixing behaviors and faster convergence in high dimensions inspired by statistical physics. Implemented neural machine translation, matrix factorization and convolutional networks with Tensorflow and PyTorch.

Natural Language Processing — *advised by Prof. David Bamman*
January 2018 - Present

Working on identifying locations from events in literature and creating machine learning model for scene segmentations within fiction. Implemented a nested named-entity recognition model for literature and achieved F-score of ~60 for character identification in scenes.

Work Experience

Arista Networks — *Software Engineer Intern*
May 2018 - August 2018

Implemented anomaly detection feature for cloud networking. The feature analyzes the aggregated network and interface statistics, which is used to detect any unusual activity or error in the device, vastly lowering the rate of false alarms.

Undergraduate Lab at Berkeley — *Principal Investigator*
December 2017 - May 2018

Led students and mentors on data science and deep learning projects on computer vision. Created and led technical workshops on recent advances in neural style transfer.

University of California, Berkeley — *Student Instructor*

Led discussion sections and office hours for courses Algorithms (CS170) and Discrete Math & Probability (CS70).

Education

University of California, Berkeley — *Math and Computer Science*
August 2015 - May 2019

Relevant courses: Machine Learning, Deep Neural Networks, Optimization Theory, Topology, Analysis, Probability Theory