

# Jong Ho Park

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## Education

### University of California, Berkeley

August 2015 - May 2019

B.A. in Mathematics and Computer Science (GPA: 3.90)

## Relevant Coursework

**Mathematics:** Topology, Real Analysis, Measure Theory, Probability Theory, Linear Algebra, Abstract Algebra, Complex Analysis

**Computer Science:** Algorithms, Artificial Intelligence, Machine Learning, Deep Neural Networks, Convex Optimization and Approximation, Advanced Topics in Information Theory

## Research

### Optimization in ML — *advised by Prof. John Canny*

January 2017 - Present

Working on modified Langevin Markov Chain Monte Carlo method for faster convergence and improved stochasticity that prevents deterministic sampling in high dimensions inspired by statistical physics. Implemented parallelizable optimizer along with neural machine translation, matrix factorization and convolutional networks in Tensorflow and PyTorch to compare performance against SGLD and SGHMC.

### Natural Language Processing — *advised by Prof. David Bamman*

January 2018 - Present

Working on event location inference in text and creating neural framework for scene segmentations within fiction. Achieved F1-score of ~60 on character presence identification and implemented a nested named-entity recognition model. Implemented span-ranking architecture to model location inference as a clustering problem using coreference resolution. (Submitting to ACL 2019)

## 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***

Taught weekly discussion sections and held office hours for Discrete Math & Probability (CS70) and Algorithms (CS170).

## **University of California, Berkeley — *Reader***

Graded assignment and hosted office hours for Discrete Math & Probability (CS70) and Machine Learning (CS189).

## **Projects**

### **Deep Neural Networks**

[Transfer Learning and Representations for Material Properties](#)

### **Special Topics in Information Theory**

[Queuing Theoretic Analysis of Replication vs Erasure Coding for General Service Time Distribution](#)

## **Honors**

### **UC Berkeley Mathematics Honors Program**

### **Upsilon Pi Epsilon**

Honor Society for the Computing and Information Disciplines