

# Liam Li

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## Education

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### Carnegie Mellon University

*PhD, Masters in Machine Learning (GPA: 4.0/4.0)*

Conducting research with Prof. Talwalkar on hyperparameter optimization and AutoML.

**Pittsburgh, PA**

*May 2020 (Expected)*

### Caltech

*Bachelors in Applied Math (GPA: 4.0/4.0)*

**Pasadena, CA**

*2007–2011*

## Employment

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### Google

*Software Engineering Intern*

**New York, NY**

*June 2017 – September 2017*

- Developed new meta-algorithm for batch mode active learning.
- Implemented active learning algorithms in production code using C++.
- Built [experimentation suite](#) for active learning in python.

### BlueMountain Capital

*Risk Analyst*

**New York, NY**

*May 2014 – July 2015*

### Cornerstone Research

*Senior Analyst*

**Los Angeles, CA**

*August 2011–April 2014*

## Publications

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- Li, L. and Talwalkar, A. [Random Search and Reproducibility for Neural Architecture Search](#). UAI 2019.
- Li, L., Sparks, E., Jamieson, K., and Talwalkar, A. [Exploiting Reuse in Pipeline-Aware Hyperparameter Tuning](#). NIPS 2018 Systems for Machine Learning Workshop.
- Li, L., Jamieson, K., Rostamizadeh, A., Gonina, E., Hardt, M., Recht, B., and Talwalkar, A. [Massively Parallel Hyperparameter Tuning](#). NIPS 2018 Systems for Machine Learning Workshop.
- Li, L., Jamieson, K., DeSalvo, G., Rostamizadeh, A., and Talwalkar, A. [Hyperband: A Novel Bandit-Based Approach to Hyperparameter Optimization](#). JMLR, 18(185):1–52, 2018
- Li, L., Jamieson, K., DeSalvo, G., Rostamizadeh, A., and Talwalkar, A. [Efficient Hyperparameter Optimization and Infinitely Many Armed Bandits](#). ICLR 2017.

## Talks and Panels

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- *ICML AutoML Workshop Panel Discussion* *June 2019*
- *Random Search and Reproducibility for NAS*
  - Stanford DAWN Lab *April 2019*
  - Berkeley RISE Lab *April 2019*
  - Determined AI *April 2019*
  - MILA *May 2019*
  - UCLA ScAi Lab *June 2019*
  - ICML AutoML Workshop *June 2019*
- *Parallelizing Hyperband for Large-Scale Tuning*
  - Bloomberg *September 2017*
- *Learning Optimal Mixtures of Active Learning Methods*
  - Google Research Intern Seminar *August 2017*
- *Hyperband: A Novel Bandit-Based Approach to Hyperparameter Optimization*
  - UCLA Electrical Engineering Annual Research Review *February 2015*
  - Southern California Machine Learning Symposium *November 2016*

## Service

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- [CMU ML Blog](#), Founding Editor *2018 – Present*
  - Author of [post](#) on distributed hyperparameter optimization.
- Conference and Workshop
  - NIPS Reviewer *2019*
  - ICML AMTL Workshop Program Committee *2019*
  - ICML AutoML Workshop Program Committee *2019*
  - ICML Reviewer *2019*
  - SysML Reviewer *2018*
  - ICLR Volunteer *2017*

## Awards

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- CMU MLD TA Award *Fall 2018*
- ICLR Travel Award *2017*
- Southern California Machine Learning Symposium Best Talk Award *2016*
- Eugene V. Cota-Robles Fellowship, UCLA *2015–2017*
- Wasserman Scholar, Caltech *2009–2011*

Teaching.....

[10-718: Data Analysis](#)

Teaching Assistant

**CMU**

*Fall 2018*

Designed data analysis project to develop machine learning pipeline for single cell gene expression data.

**10-403: Deep Reinforcement Learning and Control**

CMU

*Teaching Assistant*

*Spring 2019*

Led recitation and designed homework assignments focused on implementing standard reinforcement learning algorithms.

Technical Skills.....

- o **Programming Languages:** Python, R, C++, Scala, Matlab
- o **Frameworks:** Tensorflow, Keras, PyTorch, Apache Spark