

EDUCATION

Carnegie Mellon University, Pittsburgh, PA*Ph.D. Candidate in Machine Learning***2012 – Present**

- Expected graduation date: Aug 2017

*M.Sc. in Machine Learning***2012 – 2016****California Institute of Technology**, Pasadena, CA*B.Sc. with Honor in Computer Science***2010 – 2012**

- Research Advisor: Andreas Krause

Wesleyan University, Middletown, CT*B.A. with High Honor in Physics and Mathematics***2007 – 2010**

- Research Advisor: Francis W. Starr

EMPLOYMENT

Petuum Inc., Pittsburgh, PA*Director of Product Development***Dec 2016 – Present**

- Overseeing the development of distributed machine learning and deep learning platforms; leading the development healthcare AI. Developed and published the state-of-the-art method to segment lung fields and the heart in chest x-rays with adversarial neural networks.

Bosch Research, Pittsburgh, PA*Research Intern***May 2016 – Aug 2016**

- Used Tensorflow on a GPU cluster to train state-of-the-art convolutional neural networks for environmental sound analysis. Our work is under submission to ICASSP 2017.

Facebook, Menlo Park, CA*Software Engineering Intern***May 2015 – Aug 2015**

- Developed a distributed machine learning backend for large-scale logistic regression using Petuum parameter server.
- Benchmarked Petuum against Facebook's internal system and open source Vowpal Wabbit; showed that Petuum achieves high system throughput and produces comparable to better models.

Google, Pittsburgh, PA*Software Engineering Intern***May 2013 – August 2013**

- Contributed to the Ad Quality backend; developed a hyperparameter tuning framework to optimize SmartAds training system with convex and non-convex optimization algorithms; built a web frontend for other teams to interface with the framework.

LinkedIn, Mountain View, CA*Software Developer Intern***June 2012 – August 2012**

- Implemented several background tasks in the payment backend using Java, Oracle SQL, Python, and Spring Framework.

OpenX, Pasadena, CA*Software Developer Intern***April 2012 – June 2012**

- Simulated a large number of users to load-test several internal servers using Erlang and Tsung; developed Tsung modules to enable Thrift protocols.

PROGRAMMING

C/C++, Python, Matlab, Java, Linux, L^AT_EX 2_ε.