

**Logan Stafman**  
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### **Current Address**

135 Faculty Rd  
Princeton, NJ 08540

### **Permanent Address**

515 W Cleveland St  
Bozeman, MT 59715

### **Education**

**Princeton University** – Princeton, NJ August 2012 - Present  
Ph.D in Computer Science - Adviser: Michael J Freedman  
Award: Gordon Y.S. Wu Fellowship

**Washington University in St. Louis** – St. Louis, MO May 2012  
B.S. in Computer Science, Minor in Mathematics, GPA – 3.65  
Award: Outstanding Computer Science Undergraduate

### **Publications**

**SLAQ: Quality-Driven Scheduling for Distributed Machine Learning**  
[Logan Stafman\\*](#), [Haoyu Zhang\\*](#), [Andrew Or](#), [Michael J Freedman](#)

Training machine learning models with large datasets can incur significant resource contention on shared clusters. Yet in exploratory settings, better models can be obtained faster by directing resources to jobs with the most potential for improvement. SLAQ is a cluster scheduling system for approximate ML training jobs that aims to maximize the overall job quality. Experiments show that SLAQ achieves a quality improvement of up to 73% and a delay reduction of up to 44%.

**SoCC '17**

**Best Paper Award**

**Extended Abstract accepted at SysML '18**

### **Work Experience**

**Princeton University, Princeton, NJ** August 2012-Present  
Research Assistant with Dr. Michael Freedman

**VMWare, Palo Alto, CA** Summer 2015

- Investigated how high-bandwidth NICs interacted with multi-NUMA

machines

- Resulting work published in MICRO journal
  - [<http://www.cs.princeton.edu/~stafman/NUMA.pdf>]

**AT&T Labs, Florham Park, NJ**

Summer 2013

Research Assistant with Dr. Ramon Caceres

- Investigated edge computing within the AT&T Network
- Developed simulator for

**Washington University Computer Science**

May 2011-July 2012

Research Assistant with Dr. Jonathan Turner

- Developed the Forest network in C++ and Java. Forest is an overlay network aimed at distributed systems with demanding real-time requirements.
- Evaluated strains and bottlenecks in separate components of Forest network

**Washington University Network Security Office**

Fall 2011-Spring 2012

Network Security Assistant

- Wrote and updated Perl scripts which monitor network traffic
- Tracked down vulnerabilities across the campus network

**Washington University Computer Science, St. Louis, MO**

Spring 2011

Teacher's Assistant for Discrete Mathematics (Dr. Todd Sproull)

- Graded homework, quizzes, and exams
- Assisted students with introductory proof writing during office hours

**Washington University Student Technology Services**

Fall 2010-Spring 2011

Student Technology Coordinator

- Solved student computing issues
- Planned and held events teaching students about technology

**RightNow Technologies (Now Oracle), Bozeman, MT**

Summer 2010

Intern in "Current Engineering"

- Wrote unit tests for bug fixes in C#
- Fixed bugs in C#, C, PHP, and Javascript

**Leadership Experience**

**Princeton University Juggling Club**

Fall 2014-Present

- President
- Wrote and organized annual show

**Association for Computing Machinery, WUSTL Student Chapter**

2009-2012

- Vice President

- Organized and wrote questions for in-house programming competitions

**YoWU (Washington University Yoyo club)**

Fall 2009-Spring 2012

- Founder and treasurer
- Performed in Lunar New Year Festival annually