

# ERIK BRINKMAN

## PERSONAL INFORMATION

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## EDUCATION

*University of Michigan*      2012-2017      Ph.D. in Computer Science and Engineering      ANN ARBOR, MI  
GPA: 3.81 · Recipient of STIET Summer Research Grant  
Coursework: Machine Learning · Online Learning · Reinforcement Learning · Social Networks

*Washington University*      2006-2010      BS in Systems Science and Engineering      ST. LOUIS, MO  
GPA: 3.88 · *Magna cum Laude*  
Coursework: Algorithms for Nonlinear Optimization · Nonlinear Dynamic Systems

## WORK EXPERIENCE

*University of Michigan*      2012-Present      Graduate Student Research Assistant      ANN ARBOR, MI  
▪ Studied auction settings where having access to public information is bad for all agents (AAMAS 2014)  
▪ Analyze the effects of latency competition between high frequency trading firms using simulation based game theory  
▪ Investigate the relative benefits of discrete clearing versus continuous financial markets with complex agent behavior

*Yelp*      Summer 2015      Intern      SAN FRANCISCO, CA  
▪ Modified auto-bidder to increase advertiser return on investment  
▪ Ran live experiments to determine modification effects and optimal parameters

*Elance-oDesk*      Summer 2014      Research Intern      MOUNTAIN VIEW, CA  
▪ Developed search ranking optimization based on click-through data  
▪ Built profile photo categorizer for demographics and search ranking

*University of Michigan*      Fall 2013      Graduate Student Instructor      ANN ARBOR, MI  
▪ Taught weekly fifty-student discussion section for Algorithms and Data Structures  
▪ Designed laboratory projects, created grading rubrics, held office hours, and graded student work

*MIT Lincoln Laboratory*      2010-2012      Researcher      LEXINGTON, MA  
▪ Implemented an efficient topic modeling algorithm (PLSA) in MapReduce  
▪ Prototyped real time entity resolving and disambiguation system for news corpora  
▪ Designed a database that supports general queries on geographic descriptions  
▪ Adapted aggregate movement model between data modalities

## LEADERSHIP

*CSE Grad Student Organization*      2013-Present      Organized social activities such as kayaking, whirlyball, and bar crawls

*UM REU / SURE*      Summers      Mentored students on designing market simulators, implementing online learning algorithms, and using distribution free statistical techniques

*IM Broomball*      2012-Present      Co-captained IM Grad/Faculty/Staff Champion Team

## PROGRAMMING LANGUAGES

Python (Numpy, Scipy, Scikit-Learn) · Java · Bash · SQL · C++11 · Haskell · Matlab · Lua