

ERIK BRINKMAN

PERSONAL INFORMATION

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EDUCATION

University of Michigan 2012-2018 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)
▪ Demonstrated surprising efficiency of continuous double auctions in the presence of strategic agents (Submitted JEDC)
▪ Investigating how to design a modern frequent call market using empirical mechanism design
▪ Analyzing “Flash Crash”, metrics that indicated susceptibility, and policies that mitigate risk in the presence of strategic traders

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

SKILLS

Leadership CSEG Social Chair · AI Seminar Chair · REU / SURE Mentor · IM Broomball Co-captain

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

Microsoft College Puzzle Challenge Rankings at Michigan: 4th 2014 · 1st 2015 · 3rd 2016