ERIK BRINKMAN

PERSONAL INFORMATION

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EDUCATION

2012-2018	Ph.D. in Computer Science and Engineering	Ann Arbor, MI

University of Michigan

GPA: 3.81 · Recipient of STIET Summer Research Grant
Coursework: Machine Learning · Online Learning · Reinforcement Learning · Social Networks

2006-2010	BS in Systems Science and Engineering	St. Louis, MO

Washington University

GPA: 3.88 · *Magna cum Laude*
Coursework: Algorithms for Nonlinear Optimization · Nonlinear Dynamic Systems

WORK EXPERIENCE

2012-Present	Graduate Student Research Assistant	Ann Arbor, MI

University of Michigan

- 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

Summer 2015	Intern	San Francisco, CA

Yelp

- Modified auto-bidder to increase advertiser return on investment
- Ran live experiments to determine modification effects and optimal parameters

Summer 2014	Research Intern	Mountain View, CA

Elance-oDesk

- Developed search ranking optimization based on click-through data
- Built profile photo categorizer for demographics and search ranking

Fall 2013	Graduate Student Instructor	Ann Arbor, MI

University of Michigan

- Taught weekly fifty-student discussion section for Algorithms and Data Structures
- Designed laboratory projects, created grading rubrics, held office hours, and graded student work

2010-2012	Researcher	Lexington, MA

MIT Lincoln Laboratory

- 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