

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 · <i>Magna cum Laude</i> Coursework: Algorithms for Nonlinear Optimization · Nonlinear Dynamic Systems		

WORK EXPERIENCE

University of Michigan	2012-Present	Graduate Student Research Assistant	ANN ARBOR, MI
	<ul style="list-style-type: none">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 designAnalyzing “Flash Crash”, metrics that indicated susceptibility, and policies that mitigate risk in the presence of strategic traders		
Yelp	Summer 2015	Intern	SAN FRANCISCO, CA
	<ul style="list-style-type: none">Modified auto-bidder to increase advertiser return on investmentRan live experiments to determine modification effects and optimal parameters		
Elance-oDesk	Summer 2014	Research Intern	MOUNTAIN VIEW, CA
	<ul style="list-style-type: none">Developed search ranking optimization based on click-through dataBuilt profile photo categorizer for demographics and search ranking		
University of Michigan	Fall 2013	Graduate Student Instructor	ANN ARBOR, MI
	<ul style="list-style-type: none">Taught weekly fifty-student discussion section for Algorithms and Data StructuresDesigned laboratory projects, created grading rubrics, held office hours, and graded student work		
MIT Lincoln Laboratory	2010-2012	Researcher	LEXINGTON, MA
	<ul style="list-style-type: none">Implemented an efficient topic modeling algorithm (PLSA) in MapReducePrototyped real time entity resolving and disambiguation system for news corporaDesigned a database that supports general queries on geographic descriptionsAdapted aggregate movement model between data modalities		

LEADERSHIP

CSE Grad Student Organization	2013-2015	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	2012-2016	Co-captained IM Grad/Faculty/Staff Champion Team

PROGRAMMING LANGUAGES

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