

# 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 · <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"><li>Studied auction settings where having access to public information is bad for all agents (AAMAS 2014)</li><li>Analyze the effects of latency competition between high frequency trading firms using simulation based game theory</li><li>Investigate the relative benefits of discrete clearing versus continuous financial markets with complex agent behavior</li></ul>	
Elance-oDesk	Summer 2014	Research Intern	MOUNTAIN VIEW, CA
		<ul style="list-style-type: none"><li>Developed search ranking optimization based on click-through data</li><li>Built profile photo categorizer for demographics and search ranking</li></ul>	
University of Michigan	Fall 2013	Graduate Student Instructor	ANN ARBOR, MI
		<ul style="list-style-type: none"><li>Taught weekly fifty-student discussion section for Algorithms and Data Structures</li><li>Designed laboratory projects, created grading rubrics, held office hours, and graded student work</li></ul>	
MIT Lincoln Laboratory	2010-2012	Researcher	LEXINGTON, MA
		<ul style="list-style-type: none"><li>Implemented an efficient topic modeling algorithm (PLSA) in MapReduce</li><li>Prototyped real time entity resolving and disambiguation system for news corpora</li><li>Designed a database that supports general queries on geographic descriptions</li><li>Adapted aggregate movement model between data modalities</li></ul>	

## LEADERSHIP

CSE Grad Student Organization	2013-Present	Organized social activities such as kayaking, whirlyball, and bar crawls
UM ICD REU	Summer 2014	Mentored REU student in implementing an online learning market making strategy
UM SURE	Summer 2013	Mentored SURE student in modifying a market simulator to model communication delays present in real markets
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