

ERIK BRINKMAN

PERSONAL INFORMATION

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EDUCATION

<i>University of Michigan</i>	<i>2012-2017</i>	Ph.D. in Computer Science and Engineering
		GPA: 3.81 · Recipient of STIET Summer Research Grant Coursework: Machine Learning · Online Learning · Reinforcement Learning · Social Networks
<i>Washington University</i>	<i>2006-2010</i>	Bachelor of Science in Systems Science and Engineering
		GPA: 3.88 · <i>Magna cum Laude</i> Coursework: Algorithms for Nonlinear Optimization · Nonlinear Dynamic Systems

WORK EXPERIENCE

<i>University of Michigan</i>	<i>2012-Present</i>	Graduate Student Research Assistant <ul style="list-style-type: none">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 theoryInvestigate the relative benefits of discrete clearing versus continuous financial markets with complex agent behavior
	<i>Summer 2014</i>	Research Intern <ul style="list-style-type: none">Developed search ranking optimization based on click-through dataBuilt profile photo categorizer for demographics and search ranking
<i>University of Michigan</i>	<i>Fall 2013</i>	Graduate Student Instructor <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
	<i>2010-2012</i>	Researcher <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

<i>CSE Grad Student Organization</i>	<i>2013-Present</i>	Organized social activities such as kayaking, whirlyball, and bar crawls
<i>UM ICD REU</i>	<i>Summer 2014</i>	Mentored REU student in implementing an online learning market making strategy
<i>UM SURE</i>	<i>Summer 2013</i>	Mentored SURE student in modifying a market simulator to model communication delays present in real markets
<i>IM Broomball</i>	<i>2012-Present</i>	Co-captained IM Grad/Faculty/Staff Champion Team

PROGRAMMING LANGUAGES

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