

# Keith A. Johansen

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<b>Education</b>	<b>Ohio State University</b>			
	<i>Masters of Science</i> in Computer Science & Engineering •Concentration in Machine Learning and High Performance Computing •Passed Comprehensive Masters Exams Spring 2009 •3.50 GPA			2008 - Present
	<i>Bachelor of Science</i> •Economics: Major GPA 3.50 •Political Science: Major GPA 3.49 •Significant additional coursework in Mathematics, Statistics and Computer Science			2003-2008
<b>Technical Course Work Summary</b>	Numerical Methods	Parallel Computing	Data Mining	
	Artificial Intelligence	Machine Learning	Theory of Computation	
	Calculus	Analysis of Algorithms	Computer Graphics	
	Operating Systems	Linear Algebra	Computer Architecture	
	Multivariate Statistics	Stochastic Processes	Statistical Computing	
<b>Technology Skills</b>	C/C++, Java, C#, OpenMP, MPI, CUDA, MatLab/Octave, R, EViews, Linux, Unix, MS Windows, MS Excel, L <sup>A</sup> T <sub>E</sub> X, SAS, SQL, Maple			
<b>Certifications</b>	<b>Chartered Financial Analyst Program</b>			2007-Present
	•Passed the Level I Exam in December 2007 •Took the Level II Exam in June 2009			
<b>Selected List of Projects</b>	<b>Kernel Methods on CUDA</b>			Spring 2009
	In Progress. Development of novel algorithm adaptations for the efficient training of Support Vector Machines and Regularized Least Squares Classifiers on the GPU.			
	<b>Hierarchical Bayesian Model for Portfolio Weight Selection</b>			Winter 2009
	Applied hierarchical Bayesian models to estimate posterior predictive distributions of asset returns in order to choose appropriate portfolio weights.			
	<b>Comparison of Parallel Algorithms for Support Vector Machines</b>			Winter 2009
	Identified performance bottlenecks, and compared the speed and scalability of algorithms for solving Support Vector Machine problems.			
	<b>Cluster Analysis for Portfolio Diversification</b>			Autumn 2008
	Employed clustering methods to diversify a portfolio			
<b>Work Experience</b>	<b>Journal of Money, Credit, and Banking</b>			<i>Research Assistant</i>
	Columbus OH •Replicated and verified the statistical analyses of published manuscripts			Summer 2007
	<b>Ohio Department of Job and Family Services</b>			<i>Web Application Development Intern</i>
	Columbus OH •Performed basic web maintenance •Created a set of classes in ASP to decrease development time of common tasks •Developed an enterprise wide application in C# to manage a complicated workflow			Summers 2004-2006
<b>Extracurricular</b>	<b>Club TECH CORPS</b>			2009
	•Introduce elementary school students to MS Office, basic hardware, programming, and robotics			
	<b>Franklin County Board of Elections</b>			2008
	•Assisted citizens in the voting process on election day •Served as part of the bipartisan Ballot Transportation Team to secure the ballots			