Keith A. Johansen

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Education

Ohio State University

Masters of Science in Computer Science & Engineering   2008 - Present
- Concentration in Machine Learning and High Performance Computing
- Passed Comprehensive Masters Exams Spring 2009
- 3.60 GPA

Bachelor of Science   2003-2008
- Economics: 3.50 Major GPA
- Political Science: 3.49 Major GPA
- Significant additional coursework in Mathematics, Statistics and Computer Science

Technical Course Work Summary

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

Technology Skills C/C++, OpenMP, MPI, CUDA, Java, C#, MatLab/Octave, Python, R, Linux, Unix, MS Windows, MS Excel, LaTeX, SQL, Maple, SVN

Certifications

Chartered Financial Analyst Program   2007-Present
- Passed the Level I Exam in December 2007
- Sat for the Level II Exam in June 2009

Selected List of Projects

Kernel Methods on the GPU   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 using CUDA.

Hierarchical Bayesian Model for Portfolio Weight Selection   Winter 2009
Applied hierarchical Bayesian models to estimate posterior predictive distributions of asset returns in order to choose appropriate portfolio weights.

Comparison of Parallel Algorithms for Support Vector Machines   Winter 2009
Identified performance bottlenecks, and compared the speed and scalability of parallel algorithms for solving Support Vector Machine problems.

Cluster Analysis for Portfolio Diversification   Autumn 2008
Employed clustering methods to diversify a portfolio.

Work Experience

Journal of Money, Credit, and Banking   *Research Assistant*
Columbus OH   Summer 2007
- Replicated and verified the statistical analyses of published manuscripts

Ohio Department of Job and Family Services   *Web Application Development Intern*
Columbus OH   Summers 2004-2006
- Performed basic web maintenance
- Created a set of classes in ASP to decrease development time of common tasks
- Developed, as part of a team, an enterprise wide application in C# to manage a complicated workflow

Extracurricular

Club TECH CORPS   2009
- Introduce elementary school students to MS Office, basic hardware, programming, and robotics

Franklin County Board of Elections   2008
- Assisted citizens in the voting process on election day
- Served as part of the bipartisan Ballot Transportation Team to secure the ballots