

# Casey J. Battaglino

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EDUCATION	<b>Georgia Institute of Technology</b> , Atlanta, GA <i>PhD., Computational Science and Engineering. GPA: 3.66</i> • Advisor: Prof. Rich Vuduc <b>Macalester College</b> , Saint Paul, MN <i>BA. Cum Laude, Mathematics, Computer Science</i>	<b>August 2010 – present</b> <b>September 2005 – May 2009</b>
PROFESSIONAL EXPERIENCE	<b>Georgia Institute of Technology</b> , Atlanta, GA <i>Graduate Research/Teaching Assistant</i> Investigating compute models for hardware-application codesign, programming models for parallel computing, and high-performance graph computations. TA for CSE 6220, High Performance Computing <b>Cray, Inc.</b> , Seattle, WA <i>Chapel Intern</i> Developed ‘hierarchical locales’ for the Chapel programming language Work included with ‘most elegant’ submission for HPC Challenge at Supercomputing 2012 Work includes modifications to compiler, runtime, libraries <b>3M, Inc.</b> , Maplewood, MN <i>Software Engineer (Contract)</i> Performance profiling, tuning, and optimization of 3Ms Visual Attention Service, using C# and C++ <b>MIT Lincoln Laboratory</b> , Lexington, MA <i>Graduate Research Intern</i> Designed and developed GPUOctave, MATLAB-compatible software for transparent GPU processing, using C and CUDA. Fully documented code and functionality. <b>University of Minnesota Supercomputing Institute</b> , Minneapolis, MN <i>REU Intern</i> Studied earthquake wave modeling using the spectral finite element method. Ported this method to a GPU using C and CUDA for high-performance execution. <b>Macalester College</b> , Saint Paul, MN <i>Teaching Assistant (Preceptor), Web Design</i> TA for COMP225: Algorithm Design/Analysis TA for MUSI153: Electronic Music (3 semesters)	<b>August 2010 – Present</b> <b>May 2011/12 – August 2011/12</b> <b>March 2010 – August 2010</b> <b>May 2009 – October 2009</b> <b>June 2008 – August 2008</b> <b>August 2005 – August 2008</b>
PROGRAMMING	C, MATLAB, OpenMP/MPI, L <sup>A</sup> T <sub>E</sub> X, Chapel, C++, C#, CUDA, Java, Objective C, Scheme, Pascal (ordered by decreasing proficiency)	
GRADUATE-LEVEL COURSEWORK	Machine Learning, Network Science, Discrete Algorithms, High Performance Computing, Modeling & Simulation, Numerical Linear Algebra, High Performance Computer Architecture, Iterative Solvers, and others	