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Current Research	Parallel Programming Abstractions for Machine Learning Machine Learning must embrace parallelism to make use of the large datasets now available. Just as Scientific Computing found great success with BLAS / LAPACK, what are the right programming abstractions to make Machine Learning algorithms parallel, distributed and future proof?
Education	Carnegie Mellon University , Pittsburgh PA (2008 - ongoing) Ongoing Ph.D. in Machine Learning Advisor: Carlos Guestrin Carnegie Mellon University , Pittsburgh PA (2005 – 2008) Bachelor of Science in Computer Science Computer Science Major, Business Minor GPA: 4.00 / 4.00
Research Experience	Research Assistant under Dr. Christopher Geyer Computer Vision Related Work <ul style="list-style-type: none">- Development of a system which solves a camera calibration matrix by tracking a checkerboard target in real-time.- Development of a system which processes frames from a camera input and solves for the the motion of the camera. Research Assistant under Dr. Drew Bagnell Machine Learning Related Work <ul style="list-style-type: none">- Development of a system which uses boosted neural networks to learn to detect roads and road direction in satellite imagery.- Development of a system which aims to perform car detection at near real-time speeds.- Work on convergent belief propagation in pairwise Markov Random Fields Senior Research Thesis Topic under Prof Daniel Sleator: Application of Machine Learning Methods to the Game of Go Graduate Research with Carlos Guestrin Machine Learning Work: <ul style="list-style-type: none">- Parallel/Distributed Graphical Model Inference
Skills	Programming Languages: Matlab, C, C++, Python, Java, x86 Assembly, ML, PHP Operating Systems: Linux, Windows Languages: Fluent in English and Chinese
Honors	Undergraduate Dean's List: All Semesters
Publications	Residual Splash for Optimally Parallelizing Belief Propagation. J. Gonzalez, Y. Low, C. Guestrin. AISTATS 2009 Distributed Parallel Inference on Large Factor Graphs J. Gonzalez, Y. Low, C. Guestrin, D. O'Hallaron. UAI 2009