

Research Interest My research interests lie primarily in machine learning and its applications.

Education **Cornell University** 2005 - Present
PhD Student in Computer Science

University of Illinois at Urbana-Champaign 2001 - 2005
Bachelor of Science in Computer Science Graduated with Highest Honors

Work Experience **NVIDIA Corporation** Architecture Engineer Intern
Santa Clara, CA Summer 2005
Developed internal tools to assist GPU simulation and data mining. Used C++ and Perl.

Microsoft Corporation Software Design Engineer Intern
Redmond, WA Summer 2004
Designed and wrote a customized certificate API for authentication and data encryption.

Microsoft Corporation Software Design Engineer Intern
Redmond, WA Summer 2003
Used DirectX with HLSL to prototype imaging effects that are processed on the GPU.

Projects **An SVM Approach to Optimizing Mean Average Precision** Summer 2006
Used a novel approach based on multivariate SVMs to optimize for mean average precision.

Finding Influential Blogs via Link Prediction Spring 2006
Used machine learning and link analysis techniques to determine the amount of influence blogs exert on each other.

Loss-Minimizing Voting for Machine Learning Ensembles Spring 2006
Explored voting schemes which minimize a loss function for an ensemble of learning models.

Parameter Estimation for MRF-Stereo with Occlusions Fall 2005
Used an EM-method to iteratively compute superior parameters for the baseline MRF-stereo algorithm with occlusions.

Fast Ray Intersection Testing on GPU Fall 2004 - Spring 2005
Explored methods of fast ray intersection testing by utilizing an NVIDIA Geforce 6800.

Illini Book Exchange 2002-2005
<http://www.illinibookexchange.com>
Worked on development, management and marketing of Illini Book Exchange for the Technology and Management Club at UIUC.

Reflections Projections Fall 2004
<http://www.acm.uiuc.edu/conference/>
Helped plan and manage Reflections Projections 2004 as Treasurer of ACM @ UIUC.

Activities **Cornell Teaching Assistant (TA Excellence Award)** Fall 2005 - Spring 2006
Taught two sections of CS 100M during the Fall and Spring semesters of the 2005-6 academic year. Received award in recognition of performance.

UIUC ACM Treasurer Fall 2004 - Spring 2005
Managed all financial responsibilities of local chapter of ACM. Assisted the Chair in general management of ACM.

UIUC ACM SIGGRAPH Chair Spring 2004
Managed the local chapter of SIGGRAPH, organized projects and workshops/tutorials