

**Research Interest** My research interests lie primarily in machine learning, data analysis and information retrieval.

**Education** **Cornell University** 2005 - 2010  
Ph.D. in Computer Science

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

**Work Experience** **Carnegie Mellon University** Postdoctoral Scientist  
Pittsburgh, PA 2010 – Present  
Developed new online learning techniques; worked on deployment algorithms for ambulance deployment.

**Google, Inc.** Search Quality Analysis Intern  
Mountain View, CA Summer 2009  
Analysis user behavior using search traffic.

**Microsoft Research** Research Intern  
Redmond, WA Summer 2007  
Optimized ranking functions for web search.

**NVIDIA Corporation** Architecture Engineer Intern  
Santa Clara, CA Summer 2005  
Developed internal tools to assist GPU simulation and data mining.

**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 for Diversified Recommendations** Fall 2007  
Developed novel SVM approach to optimized a parameterized class of submodular functions for diversified retrieval.

**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 minimizes 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 2006  
Teaching assistant for new course on social and information networks.

**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