

Research Interest	My research interests lie primarily in machine learning, random matrix theory and high dimensional statistics.	
Education	CentraleSupélec, Paris-Saclay	2016
	- present 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
Projects	Redmond, WA	Summer 2003
	Used DirectX with HLSL to prototype imaging effects that are processed on the GPU.	
	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