Education	Doctoral Candidate, MIT CSAIL	6/2004-Now	
	Graduating in 6/2010 (planned). Focusing in n cessing and machine learning, specifically dep discriminative modeling.	• • -	
	BS and M.Eng Degrees, MIT	9/1999-6/2004	
	5-year course with simultaneous award of BS and M.Eng. M.Eng thesis on hidden-variable models for discriminative parse reranking.		
Experience	JHU CLSP Workshop	6/2002 - 8/2002	
	The Johns Hopkins Center for Language and Speech Processing holds a summer NLP workshop, where professors, grad students, and undergrads collaborate on selected projects. My project concerned generation of English text from Czech tectogrammatic structure, as part of a translation system. Supervisor: Jan Hajič.		
	MIT Media Lab UROP	10/1999-6/2001	
	Worked with the Media Lab's Explanation Architecture group on the Image Maps project, which aimed to collect and codify "local history": the history of day to day life in local areas. A key phase in the project was the collection and organization of large amounts of participants' personal photographs. I designed and implemented a tool that allowed users to visually specify the location and angle of personal photographs on an interactive map. Supervisor: Erik Blankenship and his advisor Brian K. Smith.		
	Internship, Vanu Inc.	6/2001 - 8/2001	
	Created and implemented backend software for an adaptive music selection system. Participated in regular meetings with the customer to discuss project progress. Implemented file parsing/generation module for a state chart manipulator. Supervisor: Rick Poyner.		
	Internship, Vanu Inc.	1/2001	
	Improved and updated analysis tools developed in the previous sum- mer. Worked in pairs as part of an extreme programming trial. Su- pervisor: Rick Poyner.		
	Internship, Vanu Inc.	6/2000 - 8/2000	
	Designed and implemented tools for debugging and benchmarking software radio applications. Supervisor: John Chapin.		

Publications	X. Carreras, M. Collins, and T. Koo. <u>TAG</u> , <u>Dynamic Programming</u> , and the Perceptron for Efficient, Feature-rich Parsing. <i>Proceedings</i> of CoNLL, 2008. (Best paper award).			
	T. Koo, X. Carreras, and M. Collins. <u>Simple Semi-supervised Depen-</u> <u>dency Parsing</u> . <i>Proceedings of ACL</i> , 2008.			
	M. Collins, A. Globerson, T. Koo, X. Carreras, and P. Bartlett. <u>Exponentiated Gradient Algorithms for Conditional Random Fields</u> and Max-Margin Markov Networks. <i>Journal of Machine Learning</i> <i>Research</i> , 9(Aug):1775–1822, 2008.			
	T. Koo, A. Globerson, X. Carreras, and M. Collins. <u>Structured Predic-</u> <u>tion Models via the Matrix-Tree Theorem</u> . <i>Proceedings of EMNLP</i> , 2007.			
	A. Globerson, T. Koo, X. Carreras, and M. Collins. <u>Exponentiated</u> <u>Gradient Algorithms for Log-Linear Structured Prediction</u> . <i>Pro-</i> <u>ceedings of ICML</u> , 2007.			
	T. Koo and M. Collins. <u>Hidden-Variable Models for Discriminative</u> <u>Reranking</u> . <i>Proceedings of EMNLP</i> , 2005.			
	M. Collins and T. Koo. <u>Discriminative Reranking for Natural Lar</u> <u>Parsing</u> . Computational Linguistics, 31(1):25–69, 2005.	iguage		
Awards	Best Paper Award, CoNLL	2008		
	3 rd place, US Wushu Union Nationals, Straightsword	2004		
	3 rd place, US Wushu Union Nationals, Spear	2004		
	NSF Graduate Research Fellowship	2003		
	Best Overall Final Project, 6.170	2001		
	Our "Gizmoball" implementation was retained and shown to stu- dents in later semesters as an example of a well-designed project.			
Languages	In order from most to least expertise: C, C++, Java, Korean, Spanish, Mandarin.	Perl,		