Zhiting Xu

Room 5390 Department of Computer Science University of Wisconsin-Madison		Cell:(608)320-6110 Email:zhiting@cs.wisc.edu http://www.cs.wisc.edu/~zhiting
Objective	2009 Summer Internship	
Interests	Machine Learning, Natural Language Processing, Info	ormation Retrieval
Education	• Graduate Student Computer Science, University of Wisconsin-Mac GPA: 4.0	Sept. 2008 -
	 B.S. in Computer Science, Fudan University Top 3% -Finished the four-year program in three years 	Sep. 2005-July 2008
	 Preparatory Student Computer Science, Fudan University Won an information contest, and was recomm courses at Fudan during the third year of high s 	Sep, 2004 till Sep, 2005 wended to the college, so that took school
Skills	Languages: C/C++, Java, Python, Pascal, Matlab Operating System: Linux(Arch), Windows Machine Learning and NLP packages: CRF++,Mallet,SVMLight,SGTLight,Weka openNLP,The Stanford Parser,WordNet,HowNet Algorithms: Experienced programming of Conditional Random Fields with exact inference, Maximum Entropy, miscellaneous feature engineering of natural language processing. Familiar with graphical model algorithms, spectral graph cut algorithms and other popular machine learning models and algorithms.	
Work Experience	Visiting Student Microsoft Research Aisa (MSRA) Finished the semi-supervised learning project	07/07-08/07
Publications	 Andrew Goldberg, Nathanael Fillmore, David Andrzejewski, Zhiting Xu, Bryan Gibson, and Xiaojin Zhu. May all your wishes come true: A study of wishes and how to recognize them. In North American Chapter of the Association for Computational Linguistics-Human Language Technologies(NAACL HLT), 2009. Andrew Goldberg, Xiaojin Zhu, Aarti Singh, Zhiting Xu and Robert Nowak. Multi-manifold semi-supervised learning. In Twelfth International Conference on Artificial Intelligence and Statistics(AISTATS), 2009. Yuejie Zhang, Zhiting Xu, Tao Zhang. Fusion of Multiple Features for Chinese Named Entity Recognition based on CRF Model. Asia Information Retrieval Symposium(AIRS 2008), 2008 Zhiting Xu, Xian Qian, Yujie Zhang, Yaqian Zhou. Sighan Bakeoff 2008: CRF-based Models for Word Segmentation, Named Entity Recognition and Part-Of-Speech Tagging. SIGHAN Workshop on Chinese Language Processing 2008, 2008. 	

• Yaofeng Wang, Yuejie Zhang, Zhiting Xu, Tao Zhang. Research on Dual Pattern Of Unsupervised And Supervised Word Sense Disambiguation. Proceedings of 2006 International Conference on Machine Learning and Cybernetics(ICMLC 2006), 2006

Projects A study of wishes With Professor Xiaojin(Jerry) Zhu el al

09/08-

09/08-

People from around the world offered up their wishes to be printed on confetti and dropped from the sky during the famous New Year's Eve "ball drop" in New York City's Times Square. We present an in-depth analysis of this collection of wishes. We then leverage this unique resource to conduct the first study on building general "wish detectors" for natural language text.

• Multi-Manifold Separation for Semi-Supervised Learning With Professor Xiaojin(Jerry) Zhu et al

> Given n labeled points, $\{\mathbf{x}_i, y_i\}_{i=1}^n \in \mathbb{R}^D \times \mathbb{R}$ and m unlabeled points $\{\mathbf{x}_i\}_{i=n+1}^{n+m} \in \mathbb{R}^D$ sampled iid from a mixture of manifolds, aims to separate the manifolds.

• Research On the Hierarchical Condition Random Fields National Undergraduate Innovational Experience Program

05/07-05/08

This research focuses on developing Hierarchical Conditional Random Fields to address Chinese Part-Of-Speech Tagging on coarse documents (without pre-segmentation). Proposed a method to compute inference of HCRF efficiently under some assumptions. To compare the results with other approaches on Chinese POS Tagging.

• Semi-Supervised Learning for Relation Extraction UCLA IPAM RIPS Program 2007, MSRA

07/07-08/07

Found a new approach based on pairwise distance to do semi-supervised. Proposed a new method and compared it with Trasductive SVM provided by SVMLight and SDP.

• Research On Chinese Segmentation and Named Entity Recognition Wanqdao Research Program for Undergraduate 11/06-10/07

Compare Maximum Entropy model with Conditional Random Fields combining several local features and global features along with human knowledge to classify Chinese OOV words. Showed that human knowledge not only can improve the performance of the classifier, but also can smooth the model, and thus the training data size might be reduced. Also, demonstrated that global feature can overcome the problem of limited available local features during the second or latter appearance of a Named Entity.

Participated in SIGHAN 2008 bakeoff on Segmentation, Named Entity Recognition and Part-Of-Speech.

• Research On Word Sense Disambiguation Media Computing and Web Intelligence Lab

12/05-11/06

Used Weka to compare several popular classifiers and found that SVM performed best among all classifiers using our feature set. In addition, investigated unsupervised for this problem, and showed that the use of WordNet to do an extended lesk could improve the performance.

Teaching	• Teaching Assistant for CS635: Tools and Environments for Optimization with Prof Michael Ferris. Spring, 2009	
	• Teaching Assistant for CS540: Introduction to Artificial Intelligence with Prof Xiaojin(Jerry) Zhu. Fall, 2008	
Honors	• Prize for Innovations in Research -1 all over the School of Information Science and Engineering	
	• Wangdao Scholar, Autumn, 2006 -Around 50 students in the university each year are awarded this title after they finished a research project	
	• 2005 ACM International Collegiate Programming Contest Regional Oct. 2005 Chengdu site 15^{th} Place	
	- 2005 ACM International Collegiate P Rogramming Contest Regional Nov. 2005 Beijing site 11^{th} Place	
	• National Olympic Information Contest (NOI 2004), Bronze Medal, Aug. 2004 -Won the 67th Place in China	
Reference	Available Upon Request	