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Education

Univ of Wisconsin-Madison 2008 – 2012	<ul style="list-style-type: none"> • Ph.D Candidate in Statistics • Advisor: Grace Wahba
Univ of Wisconsin-Madison 2009-2011	<ul style="list-style-type: none"> • M.S. in Computer Sciences
Stanford University 2007	<ul style="list-style-type: none"> • Visiting Student, AI Lab, Department of Computer Science • Directed by Prof. Andrew Ng
Tsinghua University 2005 – 2008	<ul style="list-style-type: none"> • M.S. in Computer Science • Advisor: Xiaoyan Zhu
Nanjing Univ of Sci. & Tech. 2001 – 2005	<ul style="list-style-type: none"> • B.S. in Computer Science

Work

05/2011 – 08/2011	SDE Intern, Microsoft SQL Server Business Intelligence, Redmond, WA. Mentor: Brad Daniels
07/2007 – 03/2008	Research Intern, NLC Group, Microsoft Research Asia, Beijing, China. Mentor: Chin-Yew Lin

Research/Project Experience

UW Madison 2008 -	Research Assistant, Statistics Department Focus: Non-parametric Statistics, Graphical Model Work: Graph Structure Learning; Non-parametric learning based on vector features and similarity; Distance Metric Learning for dimension reduction; Multi-task learning; Social Network iPhone Medical Image Development Developed an app to retrieve electrocardiograph data, heart rate, and etc
Microsoft SQL Server Business Intelligence 2011	SDE Intern, Analysis Services Group Focus: Analysis Services Engine Work: Improving the parallel processing of large data sets
Microsoft Research Asia 2007– 2008	Research Intern, Natural Language Computing group Focus: Web Knowledge Mining, Question Answering, Parsing Work: Identifying contextual information in interactive dialogues to retrieve answers by Graphical Models; Question and Answering system for online service; Parsing in context free grammar
Stanford University 2007	Visiting Scholar, AI Lab, Department of Computer Science Focus: Stanford WordNet Project Work: Augmented Wordnets based on semantic taxonomy induction
Tsinghua University 2005 – 2008	Research Assistant, Department of Computer Science Focus: Machine Learning, Pattern Recognition, NLP Work: Ontology-based biological relation extraction, evaluation and integration; semi-supervised model; Named Entity Recognition
Tsinghua University 2006	Team leader in BioCreAtIvE 2006 and ranked top 1 in the competition Work: Proposed and developed a profile-based approach to extract protein interaction by incorporating evidence from the full text

Research Interest

Theoretical end: Machine Learning, Graphical Models, High-Dimensional Data, Optimization
Application end: Information Extraction & Retrieval, Data Mining, NLP, Web Intelligence

Programming

Proficient: C, C++, C#, Java, MATLAB, R
Familiar: Python, Perl, Pascal, Assembly, SQL, SAS
Platforms: Windows, Unix/Linux

Patent

1. Gao Cong, Chin-Yew Lin, **Shilin Ding**. **Summarizing Online Forums into Question-Context-Answer Triples**. Application NO. 20100076978

Publications

1. **Shilin Ding**, Grace Wahba, Xiaojin Zhu. **Learning Higher-Order Graph Structure with Features by Structure Penalty**. To appear in 25th Annual Conference on Neural Information Processing Systems (NIPS 2011).
2. Xinying Song, **Shilin Ding**, Chin-Yew Lin. **Better Binarization for the CKY Parsing**. In *Proceedings of 13th Conference on Empirical Methods in Natural Language Processing (EMNLP 2008)*.
3. **Shilin Ding**, Gao Cong, Chin-Yew Lin and Xiaoyan Zhu. **Using Conditional Random Fields to Extract Contexts and Answers of Questions from Online Forums**. In *Proceedings of 46th Annual Meeting of the Association for Computational Linguistics (ACL 2008)*
4. Minlie Huang, **Shilin Ding**, Hongning Wang, and Xiaoyan Zhu. **Mining Physical Protein-protein Interactions from Literature**. *Genome Biology*, 2008, 9(Suppl 2): S10.
5. Hongning Wang, Minlie Huang, **Shilin Ding**, and Xiaoyan Zhu. **Exploiting and Integrating Rich Features for Biological Literature Classification**. *BMC Bioinformatics*, 2008; 9(Suppl 3): S4.
6. **Shilin Ding**, Minlie Huang, Hongning Wang, and Xiaoyan Zhu. **Profile-feature Based Protein Interaction Extraction from Full-Text Articles**. In *Proceedings of the 7th BIOKDD Workshop in the 13th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, pp. 42-49, 2007, San Jose.
7. **Shilin Ding**, Minlie Huang, and Xiaoyan Zhu. **Semi-supervised Pattern Learning for Extracting Relations from Bioscience Texts**. In *Proceedings of the 5th Asia Pacific Bioinformatics Conference*, pp. 307-316, 2007, Hongkong.
8. Minlie Huang, **Shilin Ding**, Hongning Wang, Xiaoyan Zhu. **Mining Physical Protein-Protein Interactions by Exploiting Abundant Features**. In *Proceedings of the 2nd BioCreative Challenge Evaluation Workshop*, April, 2007, Spain.
9. Minlie Huang, Xiaoyan Zhu, **Shilin Ding**, Hao Yu and Ming Li. **ONBIRES: ONtology-based Biological Relation Extraction System**. In *Proceedings of the 4th Asia Pacific Bioinformatics Conference*, pp. 327-335, 2006, Taiwan.
10. Jiao Li, Minlie Huang, **Shilin Ding**, Hao Yu, and Xiaoyan Zhu. **Semantic relationship-related biological text retrieval**. *Journal of University of Science and Technology of China*. 2006: 36 (8), pp. 906-908
11. Budi Ongkowijaya, **Shilin Ding**, Xiaoyan Zhu. **Various Features with Integrated Strategies for Protein Name Classification**. In *Proceedings of ISPA'05, LNCS*, vol. 3759, pp. 213-222, Nanjing, 2005.

Working Paper

1. **Shilin Ding**, Grace Wahba. Distance Metric Learning for Dimension Reduction and Reproducing Kernel Estimation.