

Wang, Dingquan

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RESEARCH INTERESTS	Natural Language Processing, Machine Learning, Information Retrieval, Data Mining, and Recommender Systems	
EDUCATION	Columbia University , New York, US <i>The Fu Foundation School of Engineering & Applied Science</i> M.S. Candidate, Computer Science, September, 2012- <ul style="list-style-type: none">GPA: 3.93/4.0 Shanghai Jiao Tong University , Shanghai, China <i>Computer Science and Technology(ACM Honored Class)</i> B.S., Engineering, July, 2011 <ul style="list-style-type: none">Dissertation Topic: “Intent Based Query Clustering on User Logs”Major GPA: 3.74/4.3	
PUBLICATIONS	Dingquan Wang , Weinan Zhang, Gui-Rong Xue, and Yong Yu: Deep Classifier for Large Scale Hierarchical Text Classification, In <i>the 1st PASCAL Challenge on Large Scale Hierarchical Text Classification</i> Weinan Zhang, Dingquan Wang , Gui-Rong Xue, and Hongyuan Zha: Advertising Keywords Recommendation for Short-text Web Pages using Wikipedia, <i>ACM Transactions on Intelligent Systems and Technology</i> Vol. 3, No. 2. DOI=10.1145/2089094.2089112	
HONORS AND AWARDS	MSTA Fellowship of Columbia University Microsoft Excellent Internship Award Microsoft Young Fellowship Award(3/1000), 1st place in Task 2, PASCAL challenge: LSHTC ¹ Excellent Academic Scholarship, Shanghai Jiao Tong University, Class B(Three times)	Spring, 2013 April, 2011 May, 2010 November, 2009 2007–2010
PROFESSIONAL EXPERIENCE	Columbia University GRA: Con Ed Machine Learning Projects with Dr. Rebecca J. Passonneau and Prof. Michael Collins. Fall, 2013 MSTA: Advanced Machine Learning by Prof. Tony Jebara. Spring, 2013 TA: Machine Learning by Prof. Tony Jebara. Fall, 2012 Full-time internship, Web Data Management Group, Microsoft Research Asia Query clustering on user logs with Dr. Ruihua Song July, 2011 - September, 2011 and July, 2010 - February, 2011 Shanghai Jiao Tong University TA: Mathematics in Computer Science by Prof. John E. Hopcroft. Spring, 2012 Verifier: Chinese version of “Foundations of Semantic Web Technologies” Spring, 2011 TA: Computer Organization Lab., 08 ACM Honored Class. Spring, 2010	
COMPUTER SKILLS	OS, Tools and IDEs: Windows, Linux, Mac, Latex, Gnuplot, Vim, Eclipse Programming Skills: C, C++, C#, Java, Matlab, Python, Perl, R	

¹Large Scale Hierarchical Text Classification

Columbia University

Research Assistant, Center for Computational Learning Systems

January, 2013 -

Bloomberg project for dependency parsing with Prof. Michael Collins September, 2013 -

- Apply zpar dependency parser on various languages.

Manhole events prediction on Manhattan power grid with Dr. Rebecca J. Passonneau and Prof. Michael Collins June, 2013 -

- Animation of manhole events for different networks in Manhattan from 1996 to 2010.
- Time series pattern mining of manhole events.
- Weather modeling for different year.

Semantic feature representation to capture news impact with Dr. Rebecca J. Passonneau.

January, 2013 - June, 2013

- Using linearized tree kernel approach for prediction stock price from financial news.

Master Student, Dept. of Computer Science

September, 2012 -

Semi-supervised approaches for sentiment analysis for citing sentence with Prof. Dragomir Radev September, 2012 - January, 2012

- Using author and paper network information to improve prediction accuracy.
- Using semi-supervised learning method to tackle the limitation of training data.

Shanghai Jiao Tong University

Research Assistant, Apex Data&Knowledge Management Lab.

June, 2009 - June, 2012

Content and advertisement-sensitive PageRank for keywords recommendation

September, 2009 - June, 2011

- Paper “Advertising Keywords Recommendation on Short-text Web Pages using Wikipedia” was accepted by ACM TIST.

Query clustering by user intents

February, 2011 - June, 2011

- Excellent dissertation “Intent Based Query Clustering on User Logs” with grade A.

Dragon Star Machine Learning Program Membership

August, 2010

KDD Cup 2010

March, 2010 - June, 2010

- Score prediction on educational data using collaborative filtering.

Restricted Boltzmann Machine for Collaborative Filtering

March, 2010 - June, 2010

Mining taxonomy information from DBpedia

March, 2010 - June, 2010

PASCAL challenge: LSHTC²

July, 2009 - November, 2009

- Implement a two-stage text classifier in this challenge. Achieve the 1st place on Task 2.
- Our paper “Deep Classifier for Large Scale Hierarchical Text Classification” was accepted by the challenge committee.

Undergraduate Student, ACM Honored Class

September, 2007 - July, 2011

Project Workshop of Compiler Principles(97/100)

Spring, 2009

- Implement a compiler for Tiger programming language, with advanced optimization such as inline expansion.

Computer Organization Lab(91/100)

Spring, 2009

- Implement a MIPS processor using SystemC simulation language, with 5-level pipeline, L2-cache and dynamic branch prediction.

Project Workshop of Operating System(95/100)

Fall, 2009

- Implement a Linux styled operating system called Nachos, with INode block indexing strategy in the file system.

Project Workshop of Computer Network(95/100)

Fall, 2009

- Simulate a computer network, with TCP/IP protocol and implement a immediate messenger based on this network.

Project Workshop of Data Base Management System(92/100)

Spring, 2010

- Implement the query processing end, with the optimization on query rewriting and index join.

²Large Scale Hierarchical Text Classification