

Shuowen Wei

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Education

Wake Forest University **Winston Salem, NC, U.S.A**
Master of Arts and Sciences in Mathematics (Candidate) GPA: 3.75 (so far) 09/2011-05/2013
Focus: Statistics and Discrete Mathematical Simulations, Programming in CS

Wuhan University **Wuhan, China**
Bachelor of Science in Applied Mathematics GPA: 3.50 09/2007-06/2011
Focus: Mathematical Models and Optimization, Statistics, Financial Mathematics

Graduate Level Courses

➤ 2011Fall:	MTH731 General Topology (A)	MTH721 Abstract Algebra (A-)
	MTH626/CS652 Numerical Linear Algebra(A)	MTH567 Mathematical Statistics I (A)
➤ 2012Spring:	MTH752/CS765 Image Processing (A)	MTH659 Multivariate Statistics (A-)
	CS621 Database Management Systems (A-)	MTH711 Real Analysis (B-)
➤ 2012Fall :	MTH791 Thesis Research I	MTH656 Statistical Methods
	CS641 Operating Systems	CS671 Artificial Intelligence
	MTH655/CS655 Introduction to Numerical Methods	

Skills

➤ Language	Fluent English, Native Chinese Speaking Mandarin
➤ Programming	C++/C, Matlab, SQL, PHP/HTML, Lingo, R, SAS, LUNIX and DOS
➤ Documentation	Latex, Tableau, Microsoft Office

Internship Experience

Clinic Data Analyst **Winston Salem, NC, U.S.A**
Biomedical Engineering Department, Wake Forest Baptist Medical Center 05/2012-08/2012

- Help build the data warehouse (I2B2) of WFBMC, work with Dr. Yaorong Ge
- Analyze the characterization of 750 million clinic data by Oracle SQL Developer and Tableau
- Visualize the results by Tableau and present them to the hospital leaders and project directors

Working & Research Experience

Research Assistant in Statistics and Discrete Mathematics Field **Winston Salem, NC, U.S.A**
Department of Mathematics, Wake Forest University 11/2011-10/2012

- Simulation on ants' random walking based on pheromone for cyber network security by Matlab, Sponsored by Pacific Northwest National Laboratory (PNNL), Instructed by Dr. Kenneth S. Berenhaut, Dr. Errin Fulp
- Present methods and results to scientists from PNNL and ANL (Argonne National Laboratory)

Teaching Experience **Winston Salem, NC, U.S.A**
Department of Mathematics, Department of Computer Science, Wake Forest University 09/2011-10/2012

- TA of Dr. Torgersen's CS101-"Introduction to Computer Science", 2012Fall
- Tutor in the Math Center of Wake Forest University
- Grader for MTH111, 112 (Calculus I II), MTH205 (Applied Multivariable Mathematics), MTH353(Mathematical Models)

Undergraduate Research Projects **Wuhan, China**
School of Mathematics and Statistics, Wuhan University 06/2009-09/2010

- Artificial intelligence algorithms and their applications in pattern recognition, Instructed by Dr. Xuming Yi
- Research of linear regression in finance and marking, Instructed by Dr. Aijiao Deng

Awards and Honors

<i>Member of Pi Mu Epsilon, the mathematical honor society</i>	<i>04/2012</i>
<i>Honorable Mention for Mathematical Contest in Modeling (MCM)</i>	<i>04/2010</i>
<i>Second prize in Hubei Province for China Undergraduate Mathematical Contest in Modeling (CUMCM)</i>	<i>10/2010</i>
<i>Second prize in Huazhong District (contains nine provinces) Mathematical Contest in Modeling</i>	<i>05/2009</i>
<i>Second Prize Scholarship (top 5 in 42)</i>	<i>10/2010</i>
<i>Third Prize Scholarship (top 10 in 42)</i>	<i>10/2009</i>

Training Experience

Training for MCM (Mathematical Contest in Modeling)	<i>01/2010-02/2010</i>
➤ <i>Focus: English writing</i>	
Training for CMC (China Mathematics Competition)	<i>09/2009-11/2009</i>
➤ <i>Focus: Mathematical problem solving abilities and skills</i>	
Training for CUMCM (China Undergraduate Mathematical Contest in Modeling)	<i>05/2009-08/2009</i>
➤ <i>Focus: mathematics modeling, Matlab and Lingo programming and simulation contest</i>	
Training for ACM-ICPC (Association for Computing Machinery-International Collegiate Programming Contest)	<i>01/2010-02/2010</i>
➤ <i>Focus: programming skills and algorithms</i>	

Interests

Soccer, Basketball, Tennis, Chess, Reading, Traveling