

# Shuowen Wei

## Education

<b>Wake Forest University,</b>	<b>Winston Salem, NC, U.S.A</b>
Master of Arts and Sciences in Computer Science, GPA: 3.667	08/2013 - 05/2014
Master of Arts and Sciences in Mathematics, GPA: 3.815	08/2011 - 08/2013
<ul style="list-style-type: none"><li>• Focus: Statistics and Discrete Mathematical Models, Algorithms</li><li>• Full academic scholarship offered by Wake Forest University</li></ul>	

<b>Wuhan University,</b>	<b>Wuhan, Hubei Province, China</b>
Bachelor of Science in Applied Mathematics, GPA: 3.520	09/2007 - 06/2011
<ul style="list-style-type: none"><li>• Focus: Mathematical Models and Optimization, Statistics</li></ul>	

## Skills

- Programming: Matlab (>5 years' experience), C++/C, Oracle SQL, PHP/HTML, Android/iOS, R
- Documentation: Vim, Latex, Tableau, Microsoft Office
- Operating System: Linux/Ubuntu, Windows/7/XP

## Working & Research Experience

<b>Clinic Data Analyst Internship</b>	<b>Winston Salem, NC, U.S.A</b>
Biomedical Engineering Department, Wake Forest Baptist Medical Center	05/2012 - 08/2012
<ul style="list-style-type: none"><li>• Participate in building the database warehouse (I2B2) at WFBMC, work with Dr. Yaorong Ge</li><li>• Analyze the characterization of 750 million clinic data by Oracle SQL Developer and Tableau</li><li>• Visualize the results by Tableau and deliver reports to hospital leaders and project directors</li></ul>	

<b>Research Assistant in Statistics and Discrete Mathematics Field</b>	<b>Winston Salem, NC, U.S.A</b>
Department of Mathematics, Wake Forest University	11/2011 - Present
<ul style="list-style-type: none"><li>• Simulation on digital ants' random walk based on pheromone for cyber network security by Matlab, Sponsored by PNNL (Pacific Northwest National Laboratory), Instructed by Dr. Kenneth S. Berenhaut, Dr. Errin Fulp</li><li>• Present methods and conclusions to scientists from PNNL and ANL (Argonne National Laboratory)</li></ul>	

<b>Teaching Experience</b>	<b>Winston Salem, NC, U.S.A</b>
Department of Mathematics, Computer Science, Wake Forest University	08/2011 - Present
<ul style="list-style-type: none"><li>• Teaching Assistant for CS101 Introduction to Computer Science, 2012Fall, 2013Spring</li><li>• Math Tutor in the Math Center of Wake Forest University</li><li>• Grader for Calculus I and II, Multivariable Statistics, Mathematical Models, etc</li></ul>	

## Other Projects

- Matlab Projects: 1-D and 2-D simulations on digital ants' random walk based pheromone; Encrypting and decrypting color/grayscale BMP/JPEG images by ECB (electronic code book) and CBC (cipher block chaining) methods
- C/C++ Project: Write a Linux shell to execute user input commands and also support redirections and pipes functionalities; Individual project on buffer overflow experiments in computer security course
- Mysql/PHP Project: A simple hospital reservation system allows patients to make or cancel appointments with specific doctors

## Awards and Honors

- Member of Pi Mu Epsilon, the U.S. honorary national mathematics society 04/2012 - Present
- Honorable Mention for Mathematical Contest in Modeling (**MCM**) 04/2010
- Second prize in Hubei Province for China Undergraduate Mathematical Contest in Modeling 10/2010
- Second prize in Huazhong District (contains nine provinces in the south China) MCM 05/2009