**Education**

**Wake Forest University Winston Salem, NC, U.S.A**

Master of Sciences in Computer Science, GPA: 3.890 08/2013 - 05/2014

Master of Arts in Mathematics, GPA: 3.815 08/2011 - 08/2013

* Focus：Statistics and Discrete Mathematical Models, Data Analysis
* Full academic scholarship offered by Wake Forest University

**Wuhan University Wuhan, Hubei Province, China**

Bachelor of Science in Applied Mathematics, GPA: 3.520 09/2007 - 06/2011

* Focus：Mathematical Models and Optimization, Statistics, Financial Mathematics

**Skills**

* Programming: Java, SQL, C/C++, Matlab, Python, MapReduce, Hadoop, R, SAS, VB, PHP/HTML
* Documentation: Vim, Latex, Tableau, Microsoft Office
* Operating System: Linux/Ubuntu, Windows/7/XP

**Working & Research Experience**

**Medical Informatics Analyst Internship Winston Salem, NC, U.S.A**

Translational Science Institute (TSI), Wake Forest Baptist Medical Center 05/2013 - 08/2013

* Automated inference of patient problems from structured data, generating SQL queries to target the data
* ICD9 codes classification and clustering for the database warehouse at WFBMC

**Clinic Data Analyst Internship** **Winston Salem, NC, U.S.A**

Biomedical Engineering Department, Wake Forest Baptist Medical Center 05/2012 - 08/2012

* Participate in building the database warehouse (I2B2) at 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 deliver reports to hospital leaders and project directors

**Research** **Assistant in Statistics and Discrete Mathematics Field Winston Salem, NC, U.S.A**

Department of Mathematics, Wake Forest University 11/2011 - 08/2013

* Research on digital ants’ random walk based on pheromone for cyber security, sponsored by PNNL (Pacific Northwest National Laboratory), Instructed by Dr. Kenneth S. Berenhaut, Dr. Errin Fulp
* Present methods and conclusions to scientists from PNNL and ANL (Argonne National Laboratory)
* A thesis addressing random walks on different one-dimensional grids is finished and passed, to be published

**Teaching Experience Winston Salem, NC, U.S.A**

Department of Mathematics, Computer Science, Wake Forest University 08/2011 - Present

* Teaching Assistant for basic programming classes, C, Python and Visual Basic, e.t.c
* Math Tutor in the Math Center of Wake Forest University
* Grader for Calculus I and II, Multivariable Statistics with R, Mathematical Models, etc

**Leadership Winston Salem, NC, U.S.A**

President of WFU CSSA (Chinese Students and Scholars Association) 09/2013 - Present

* Lead CSSA to better serve as a bridge between the Chinese community and other communities
* Spread Chinese culture, organize celebration events like Moon Festival and Chinese Spring Festival

**Recent Projects**

* Mining in Tweets: analyze and visualize targeted information on Twitter, using Python and MySql
* StressApp (Android App): help diabetic patients record their stress levels and other indicators
* Music Player (Java): supports multithread tasks, dealing with real-time user commands
* TCP Client/Server (C++): construct communication between clients and servers using Sockets
* Linux Shell (C++): a mimic Terminal to executes user input commands, supports redirections and pipes
* Hospital Reservation System (MySql/PHP): allows patients make or cancel appointments with specific doctors
* Matlab Projects: 1-D and 2-D simulations on digital ants’ random walk based on pheromone; Encrypting and decrypting color/grayscale BMP/JEPG images by ECB (electronic code book) and CBC (cipher block chaining) methods

**Awards and Honors**

* Member of Pi Mu Epsilon, the U.S. honorary national mathematics society 04/2012 - Present
* Honorable Mention for COMAP 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 southern China) MCM 05/2009