Wendi Weng *Jan 7, 1989*

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About Me

Enthusiastic, collaborative, optimistic, open and eager to learn.
Interested in writing software, dancing, designing, and traveling.
Live a life full of "Explore. Dream. Discover."

Research Interest

Machine Learning, Data Mining, Computer Vision, High Performance Computing

Education

Beijing Jiaotong University — BEIJING, CHINA
M.S. degree in Electronic and Information Engineering — *2012 – expected Mar '15*

Jilin University — JILIN, CHINA
B.S. degree in Telecommunication Engineering — *2008 – 2012*

Publications

- **Wendi Weng**, **"Research on detecting rail-steel's surface flaws using a quick adaptively comparing algorithm based on machine vision,"** Journal, Month Year...pending

Employment and Experience

China Mobile Group Design Institute — BEIJING, CHINA
Networking Software Engineer Intern — *Sept'13 – present*

- Involved in migrating codes of Monte Carlo based simulation platform from **C** to **C++**, which simulates the interference of multiple other communication systems to LTE system, including main modules such as modeling, interference calculation, encoding scheme selection, and comparative SNR output etc.
- Involved in tests of interference between TD-LTE and Radar system in 2,300-2,400 MHz; Designed and configured test network topology; Designed test framework and generated **Python** automation test scripts analyzing the interference under all different situations of configured systems.
- Involved in developing spectrum management web service that provides availability and information of inquired spectrum band; Designed the frond-end of spectrum inquiry input/output and interface to be integrated with other services under **ASP.NET** framework.
- Researched on empirical formula and algorithm to analyze and detect interference type between different wireless systems and TD-LTE system, which significantly improves the analyzing time and efficiency compared to manual analysis mostly used in current China Telecom industry; Imvolved in developing the software using **C#**, including main modules such as **MySQL** data input, classification algorithm, and output analysis etc.

Beijing Jiaotong University — BEIJING, CHINA
Research Assistant — *Mar'13 – Aug'13*

- Involved in developing and maintaining Coal Project Management System using **C++**.
- Designed and developed the HR management subsystem, including the connection to the database and main system.

Course Projects

Human Face Detection System (Digital Image Processing) — 2014

- Implemented a fast face detection algorithm based on image matching and gray value, which correctly identifies 80+% faces in typical photos despite the range of lighting conditions, angles and facial expressions.

Josephus Permutation Counting-out Game (Data Structure and Algorithm) — 2013

- Implemented JP problem with varied count stored in low complexity data structure using **C**.
- Implemented game GUI in **LABVIEW**.

Student Grading Management System (Intermediate Programming Design) — 2011

- Implemented SCRUD features using **C**; Stored and operated data in **MySQL**.

Date and Time Display (Foundation and Application of Microcontroller) — 2010

- Implemented date and time on 80C51 using **Assembly**.

Extracurricular Activities

- **Main Organizer** - Graduate School Annual Performance Events (1,000+ ppl.)   2013, 2014
- **Main Organizer** - IEEE student branch in Beijing Jiaotong University (20+ ppl.)   2013 – 2014
- **Student Volunteer** - Graduate School Alumni Reunion; Performance in Geracomium   2013
- **Main Organizer** - College Annual Performance Events (1,500+ ppl.)   2009, 2011
- **Vice Captain** - Champion college volleyball team (among 20+ college teams)   2010, 2011
- **Leading Actress** - 'Footprints' (First movie filmed by students in my college)   2010
- **Student Leader** - D-D Change Club (100+ ppl.)   2009

Honor and Awards

- Graduate Fellowship, BJU   2012, 2013, 2014
- Most Improved Student Award, BJU   2014
- Excellent Volunteer, BJU   2013
- Excellent Student Organizer, BJU   2012, 2013
- Excellent Student Organizer, JU   2009, 2010
- Undergraduate Fellowship, JU   2008

Technical Skills

- **Programming Languages**: C, C++, C#, Python, Shell, MATLAB, Assembly, Visual Basic, LaTeX
- **Web Programming**: ASP.NET, HTML, CSS, Javascript, XML, JSON, SOAP, REST, Apache
- **Networking**: GSM/3G/LTE Networks, TCP/IP, HTTP
- **Operating Systems**: Windows, Mac OS, Unix, GNU/Linux
- **Softwares**: Visual Studio, MySQL, Git, Wireshark, VMware vSphere
- **Excellent Object-Oriented development skill**
- **Familiar with Agile/Scrum software development life cycle**