HAOTIAN WANG

+86-15102127893 ◇ ltwbwht@sjtu.edu.cn

Address: 800 Dongchuan Road, Minhang District, Shanghai, China, 200240

EDUCATION

Shanghai Jiao Tong University   Sept. 2013 – Expected Jun. 2017

- B.S. major in Computer Science.
- Major GPA: **90.8/100 (3.86/4)**; Overall GPA: **87.6/100 (3.66/4)**.
- Member of Shanghai Key Laboratory of Scalable Computing and Systems.
- Core courses: C++ Programming, Data Structure, Software Engineering, Algorithm and Complexity, Computer System Architecture, Compiler Principles, Computer Security and Cryptography, Electronic Business and etc.

PUBLICATIONS

[1] **Haotian Wang**, Shilei Tian, Xiaofeng Gao, Lidong Wu, Guihai Chen, Approximation Design for Cooperative Relay Deployment in Wireless Networks, IEEE International Conference on Distributed Computing Systems (ICDCS), Atlanta, GA, USA, June 5-8, 2017. (Submission)

[2] Jingguang Zhou, **Haotian Wang**, Xiaofeng Gao, Fan Wu, Guihai Chen, Approximation Scheme for Data Sharing in Crowdsourcing, IEEE International Conference on Distributed Computing System (ICDCS), Atlanta, GA, USA, June 5-8, 2017. (Submission)

[3] Shilei Tian, **Haotian Wang**, Xiaofeng Gao, Fan Wu, Guihai Chen, Trajectory-Based Multi-Hop Relay Deployment Optimization in Wireless Networks, IEEE International Conference on Sensing, Communication and Networking (SECON), San Diego, CA, USA, June 12-14, 2017. (Submission)

[4] **Patent: "A Scheme of Wireless Relay Deployment Based on USRP"** (Under Review)

EXPERIENCES

Shanghai Key Laboratory of Scalable Computing and Systems   Apr. 2015 – Present
Research Assistant, Under Prof. Xiaofeng Gao   *Shanghai*

- **Leaded** a group of 3 students to participate National University Student Innovation Program, one of only two programs belonging to CSE department and finished a survey of over 200 papers about wireless relay networks.
- **Independently** chose topic, designed algorithms, did mathematical analysis and performed experiments.
- **Designed** two approximation algorithms to deal with a NP-Complete problem, how to deploy limited number of relays to maximize users' satisfaction and performed a field experiment.
- **Submitted** a paper, as the first author, in 2017 IEEE International Conference on Distributed Computing Systems (ICDCS).

Advanced Network Laboratory   Jun. 2015 – Present
Research Assistant, Under Prof. Fan Wu   *Shanghai*

- **Awarded** by student research fund of Chun-Tsung Program, the highest level of undergraduate research program in SJTU.
- **Autonomously studied** the mechanism of USRP, mastered GNU Radio to achieve the role of wireless relays using USRP, and used Network Simulation 3 (NS3).
- **Submitted** a publication patent for deployment method of wireless relay with USRP testbed, reducing the complexity of linear programming with exponential number of constrains.

Crowdsourcing Platform System   Sept. 2015 – Jan. 2016
Team Leader, Under Senior Eng. Jiadi Yu, Software Engineering   *Shanghai*

- **Built** an Online Crowdsourcing Platform using Java, Android programming and SQL.
- **Responsible** for the team construction, framework construction, database maintenance and development flow

design based on UML model.
- · **Rank top 2** over 70 students with score of 94.

Smartphone Controlled Vehicle Group   Sep. 2015 – Jan. 2016
Team Leader, Design Project of Science and Technology Innovation   *Shanghai*
- · **Used** Smartphone to control the vehicle mounting another smart phone with multiple control modes.
- · **Responsible** for the construction of voice control, gravity control function, video processing with image recognition and UI design.

Multiple-Issue Processor Construction   Mar. 2015 – Jun. 2015
Individual Project, Under Prof. Haojing Zhu, Computer Organization   *Shanghai*
- · **Achieve** MIPS instructions set executing by C++ programming.
- · **Embedded Programming**: Establish Multiple-issue Process, using Verilog programming language on FPGA experiment board.

HORNORS，AWARDS & SCHOLARSHIPS

Academic Competition
- · Mathematical Contest in Modeling **(MCM/ICM)**, **Honorable Winner**   Feb. 2016 & 2015
- · China Undergraduate Mathematical Contest in Modeling (CUMCM), **2nd Prize at National Level**   Sep. 2015
- · China Undergraduate Mathematical Contest in Modeling (CUMCM), **1st Prize at Shanghai**   Sep. 2015

Scholarship & Research fund
- · Chun-Tsung Research Program Student Research Fund (0.4%)   May 2015
- · National University Student Innovation Program Fund (9.2%)   March 2016
- · Shanghai Nature Human Harmonious Scholarship (30 out of 12,000)   Nov. 2016
- · Second-Class Scholarship for Academic Excellent Student of SJTU (Top 10%)   Oct. 2016 & 2014
- · Third-Class Scholarship for Academic Excellent Student of SJTU (Top 25%)   Oct. 2015

LEADERSHIP & VOLUNTEER

Youth Volunteers Association, *Volunteer*   Sep. 2013 – Jun. 2015
- · Volunteered at Shanghai International Marathon twice.
- · Volunteered at Shanghai Bicycle League for over 40 hours.

Student Union of college in SJTU, *Minster of Organization Department*   Oct. 2014 – Sep. 2015
- · Organized the Welcome Party for the Fresh, Annual General Conference and etc.
- · Responsible for planning scheme, event execution, and production of videos and PPT.

SKILLS & PERSONALS

Programming Language
- · Skilled with C, C++, Pascal and Java; Average in Python, MATLAB and SQL.
- · Proficient in USRP-based system implementation and Linux System.
- · Familiar with parallel computing and machine learning.

Other Skill
- · Proficient in LaTeX and Gnuplot.
- · Skilled in Photoshop, Premiere and After Effects with well-experienced in poster and video production.