

# Yang Zhang 张阳

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<b>EDUCATION</b>	SHANGHAI JIAO TONG UNIVERSITY, Shanghai, China Bachelor of Engineering in Computer Science and Technology Sep 2011 – Jun 2015 <i>IEEE Honor Class</i> , School of Electronics, Information and Electrical Engineering
<b>HONORS &amp; CERTIFICATES</b>	<b>National Endeavor Fellowship</b> 2014 <b>Academic Excellence Scholarship of SJTU</b> 2014 third class <b>National Vocational Qualification</b> Sep 2014 of advanced computer programmer (JAVA) <b>Meritorious Winner</b> Apr 2014 in The Interdisciplinary Contest in Modeling <b>Regional First Prize (Shanghai), National Second Prize</b> Nov 2013 in National Mathematical Contest in Modeling (China) <b>Merit Student of SJTU</b> 2011 – 2012
<b>WORK EXPERIENCE</b>	<b>Microsoft</b> , Zizhu, Shanghai, China Software Engineer Internship Dec 2014 – Present
<b>PUBLICATIONS</b>	1) Yiran Zhao, <b>Yang Zhang</b> , Tuo Yu, Tianyuan Liu, Xinbing Wang, Xiaohua Tian and Xue Liu, “CityDrive: A map-generating and speed-optimizing driving system”, in <i>INFOCOM, 2014 Proceedings IEEE</i> . 2) <b>Yang Zhang</b> , Huiyu Wang, Liqin Shan, Hao Zhou, Xiaohua Tian and Xinbing Wang, “VDNet: An Infrastructure-less UAV-Assisted Sparse VANET System with Vehicle Location Prediction”, submitted to <i>IEEE INFOCOM 2015</i> . 3) Tuo Yu, <b>Yang Zhang</b> , Siyang Liu, Xiaohua Tian, Xinbing Wang, Songwu Lu, “HiQuadLoc: An RSS-Based Indoor Localization System for High-Speed Quadrotors”, submitted to <i>IEEE INFOCOM 2015</i> . 4) <b>Yang Zhang</b> , Chao Kong, Zhehui Zhang, Tuo Yu, Xiaohua Tian, Chunyi Peng, Xinbing Wang, Songwu Lu, “Crowdsourcing Based Road Lane Detection with a Machine Learning Approach”, submitted to <i>MobiSys 2015</i> .
<b>RESEARCH EXPERIENCE</b>	<b>Research in Intelligent Transportation Systems</b> <b>Project:</b> Lane detection based on smartphones Sep 2014 – Present <b>Supervisors:</b> Prof. Xinbing Wang and Dr. Xiaohua Tian <b>Introduction:</b> This project aims at only using data collected from sensors on smartphones of the drivers to detect lanes on roads, and utilizes methods of crowdsourcing and machine learning. <b>Project:</b> A quadcopter assisted sparse VANET system May 2014 – Aug 2014 <b>Supervisor:</b> Prof. Xinbing Wang and Dr. Xiaohua Tian <b>Introduction:</b> This project proposed a novel VANET design in which some vehicles carries an on-board quadcopters. A vehicle location prediction algorithm was proposed to improve efficiency in this delay-tolerant network. A paper based on this work was submitted to IEEE INFOCOM, 2015. <b>Project:</b> A driving speed optimizing system based on smartphone Mar 2013 – Aug 2013 <b>Supervisors:</b> Prof. Xinbing Wang and Dr. Xiaohua Tian <b>Introduction:</b> This project aimed at implementing a speed-optimizing driving system, so that the drivers who follow the suggestion speed provided by our system will pass every intersection in green light without pulling up. A paper based on this work was <b>accepted</b> by IEEE INFOCOM, 2014.

## Research in **Indoor Localization Systems**

**Project:** An indoor localization system for high speed quadcopters May 2014 – Aug 2014  
**Supervisor:** Prof. Xinbing Wang  
**Introduction:** This project implemented an RSS-based indoor localization system for flying vehicles like quadcopters. A paper based on this work was submitted to IEEE INFOCOM, 2015.

## Research in **Mobile Cloud Computing**

**Project:** A mobile-cloud based smartphone image processing platform Mar 2014 – Jul 2014  
**Supervisor:** Prof. Weijia Jia  
**Introduction:** In this project an MCC architecture was proposed with an offloading algorithm. Based on this, a fast face recognizing system was implemented on Android smartphones.

## Research in **Heterogeneous Networks**

**Project:** Mac Protocol Design in Heterogeneous Network Sep 2013 – May 2014  
**Supervisor:** Prof. Meixia Tao  
**Introduction:** This was a crosswise project of IWCT, SJTU with DOCOMO Beijing Labs. The aim was to design and evaluate CSMA based MAC protocol in LTE networks.

## SELECTED PROJECTS

**AERO**  
An indoor localization system based on visual SLAM with quadcopters

**BLEENY**  
A mobile cloud computing application for image processing on smartphones

**COOKIE**  
A Chinese word segmentation software, written in PYTHON

**GoToDie**  
A Go AI engine written in C, based on Monte Carlo Tree Search

**HUANKR**  
An online course sharing and exchanging platform

**PASS (SHENQINGTONG)**  
A website for publishing and processing applications, written in PHP

**WEBMASTER**  
A WYSIWYG HTML editor written on JAVA FX framework

**YOUREYE**  
A Chrome extension to help people with eye disabilities to view webpages

## CAMPUS ACTIVITIES

**Director of IT Department** at SJTU Food Management Committee (ChiChi) 2013 – 2014  
**Volunteer of Shanghai International Marathon** 2011 – 2014  
**Performer of SJTU SEIEE Freshman Welcome Gala** 2012

## SKILLS

Experienced in: Web design, Android development  
Have built large projects with: JAVA, PYTHON, HTML, JAVASCRIPT, C++, PHP  
Have built small projects with: MATLAB, LABVIEW, OBJECTIVE-C, FLASH  
Musical Instruments: Accordion, Piano, Guitar