

# MINGRUI ZHANG

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## EDUCATION

- BS, Computer Science and Technology** 2013 - 2017(expected)  
Department of Computer Science and Technology, Tsinghua University  
GPA 91.0 (Rank 13/107)  
Minor in Journalism
- Visiting Student, the Fluid Interfaces Group** 2016.6 - 2016.9  
Media Lab, Massachusetts Institute of Technology  
Advised by Prof. Pattie Maes
- Exchange Student, Computer Science and Engineering** 2015.9 - 2015.12  
The Chinese University of Hong Kong

## RESEARCH INTEREST

Human Computer Interaction - Natural User Interface / Augmented Reality / Touching and Stylus

## PUBLICATIONS

- Yi, X., Yu, C., **Zhang, M.**, Gao, S., Sun, K., & Shi, Y. ATK: Enabling ten-finger freehand typing in air based on 3d hand tracking data. **UIST 2015**
- Zhang, M.**, Masclet, H., Liu, X. Exploring the Possibility of Shoulder Input Device. Submitted to **CHI 2017**

## HONORS & AWARDS

- 1<sup>st</sup> winner of the National Database Conference Cup 2016  
Top 4 projects - "Leap Touch", HACK SHANGHAI Hackathon 2015  
Best note of Youdao Course Note Competition 2015  
Best watch application award - "Pebble Mario", THACK Hackathon 2014

## WORK EXPERIENCE

- MailTime Inc. Beijing** 2016.2 - 2016.6  
*iOS Intern*  
Redesigned interaction logic and UI, user tutorial and feedback, increased 25% of the user retention.
- Chestnut Tech Inc. Beijing** 2014.10 - 2016.1  
*Co-founder, iOS Developer*  
Main developer of "Parocam" application, Face transform algorithm, UI design and product operation
- Multimedia Lab, the Chinese University of Hong Kong** 2015.6 - 2015.8  
*Research Assistant*  
Write experimental codes on machine learning, modified the CXXNET (a framework of deep learning) code and revised the convolutional layer of it. The result proved not applicable.

## PROJECTS

- PAROCAM** IOS APP @Chestnut Tech Inc. [www.parocam.com](http://www.parocam.com) 2014.11 - 2016.1  
A funny iOS app transforming images of human faces (such as stretching the mouth) in real time, using multithread face-detection tech based on GPU. Developed functions of Chat Bubbles, Video Merge. 20,000 downloads in App Store (with overall rating 4+).
- SPAM DETECTING ON Q-A COMMUNITY** @NDBC CUP'16 2016.5 - 2016.6  
Designed a novel approach to detect spam answers in Q-A community. Using CNN and Word2Vec, with additional data pre-processing. F-value 66.0%.

**FLUXA** @Media Lab MIT

**2016.6-2016.9**

Fluxa is a wearable LED device that utilizes POV (Persistence of Vision). When waving hands with Fluxa, an image or text can be seen. The device is designed to fortify social interaction and augment body movement.

**Our project is accepted by UIST'16 Demo Session.**

**VOICE++** DIGITAL DESIGN PROJECT

**2015.5 - 2015.6**

A hardware project that can recognize one's voiceprint. Recognizing algorithm(MFCC) in Verilog. WM8731 Chip Programming, Audio receiving and Voice vector matching Algorithm. Accuracy: 90% in two people, 75% in three people. A demo on YouTube is available (search VOICE++).

**DAN9** @ANNUAL STUDENT GALA OF CST, TSINGHUA

**2014.7 - 2015.4**

Bullet Screen (danmaku) development for our major's annual gala.

Built a server of Wechat public account, using PHP to connect to our address book system.

## **PRESS COVERAGE**

**NEXT 36Kr(2015)** "Product of the day - Parocam"

**Youdao(2015)** "Winner of Youdao Course Note Competition"

## **SKILLS**

### **Programming**

C/C++/C#/JavaScript/MATLAB/Objective-C/Python

### **Journalism**

Chinese writing/Interview

### **Art & Media**

Adobe Photoshop/Adobe Premiere/Final Cut Pro