

Jialong Chen

Room 506A, Zijing 11#, Tsinghua University, Beijing, 100084, P. R. China

Tel: (+86)188-1091-8397 Email: chen-jl13@foxmail.com

EDUCATION

Department of Precision Instrument, Tsinghua University

Aug 2013 - Jul 2017

- Undergraduate, major in Measurement, Control Technology and Instruments
- **GPA: 91/100 | Ranking: 3/65**
- Expected to graduate in July, 2017

RESEARCH EXPERIENCES

High Throughput Droplets Generation | Tsinghua University | Research Assistant

Jan 2016 - Present

Advisor: Prof. Yong Guo, Associate Professor at School of Medicine, Tsinghua University

- Aimed at generating droplets with high throughput (>10 kHz) and excellent homogeneity ($CV < 2\%$)
- Adopted an edge-based droplet generation structure based on literature review
- Manufactured chips with laser cutting machine and achieved expected results on multiple structures
- Created a process manual of the new processing technique

Circulating Tumor Cells (CTC) Screening | Tsinghua University | Research Assistant

Sep 2015 - Jan 2016

Advisor: Prof. Dahai Ren, Associate Professor at Department of Precision Instrument, Tsinghua University

- Aimed at developing CTC screening technology with high throughput, high recovery rate and high purity
- Incorporated morphological enrichment (deterministic lateral displacement, DLD or Dean flow) and immunological enrichment for better performance

Smart Bracelet | Tsinghua University | Project Member

Sep 2015 - Jan 2016

- Retrieved & processed data from myRIO using LabVIEW and set a variable threshold in pedometer module
- Won 3rd award in the 2016 Virtual Instrumentation Competition of Tsinghua University

Parking Timing Management System | Tsinghua University | Project Member

Aug 2015 - Sep 2015

- Developed a circuit system to read corresponding parking time from parking card code
- Simulated circuit structure with Multisim and ranked the 3rd in Design and Practice of Circuit System

EXTRACURRICULAR ACTIVITIES

Voluntary Unit | Department of Precision Instrument, Tsinghua University | Team leader

May 2016 - Present

- Developed manuals and guidelines for “Shuimu Mailbox” - our characteristic voluntary project
- Hosted voluntary events to increase connections among undergraduates and bond undergraduates with retired teachers
- Organized exhibition in the Tsinghua Volunteer Carnival

AWARDS AND HONORS

Comprehensive Scholarship

Nov 2016

1st class Academic Excellence Scholarship

Nov 2015

1st class Academic Excellence Scholarship

Nov 2014

2nd award in the 2014 Physics Experiment Competition of Tsinghua University

Dec 2014

1st award in the 31th National Partial College Student Physics Competition

Apr 2014

OTHER INFORMATION

IT: MATLAB, LabVIEW, AutoCAD, SolidWorks, Inventor, Multisim, C++, SPSS

English: TOFEL 84/120; CET4 544/710

Hobbies: Music, Badminton