

# PAN HE

Multimedia Research Center

1068 Xueyuan Avenue ◊ University Town ◊ Shenzhen, P.R. China

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## EDUCATION

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### **Sichuan University**

*June 2015*

B.E. in Software Engineering

Member of Excellent Engineer Class Program

Outstanding Graduate of Sichuan University

Graduation Thesis Awarded First Prize

Overall GPA: 89.8/100 (3.65/4)

Rank: 6/334

## RESEARCH INTEREST

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**Computer Vision:** scene text recognition, scene text detection

**Machine Learning:** representation learning, deep learning

## PUBLICATION

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**P. He**, W. Huang, Y. Qiao, C. Loy, X. Tang, Reading Scene Text in Deep Convolutional Sequences, AAAI Conference on Artificial Intelligence, 2016

## PATENT

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“METHODS AND APPARATUS FOR RECOGNIZING TEXT IN AN IMAGE”, International Patent: PCT/CN2015/081308. with Xiaoou Tang, Yu Qiao, Chen Change Loy and Weilin Huang.

## RESEARCH EXPERIENCE

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### **The Chinese University of Hong Kong, MMLab**

July 2015 - Present

*Research Assistant*

*Hong Kong, China*

- Incorporate our DTRN system in a joint training/testing way
- Explore scene text detection with fully convolutional neural networks(FCNN)
- Investigate method of end-to-end scene text system

### **The Shenzhen Institutes of Advanced Technology, MMLab**

September 2014 - Present

*Research Assistant*

*Shenzhen, China*

- Tackle scene text recognition problem by casting it as a sequence labelling problem
- Assist mentor in conducting experiments including MSER, ER
- Focus on combining convolutinal neural network(CNN) with recurrent neural network(RNN)

### **National University of Singapore**

July 2014 - September 2014

*Summer Intern*

*Singapore*

- Mobile application development.
- Biometrics course.

## PROJECT EXPERIENCE

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### Facebook's OpenSource Academy

*Project Developer*

September 2013 - May 2014

*Los Angeles, US*

- Accomplish HBase function on GeoGig
- Share experience to students of the SE department

### URL Source Detection, Tracking and Statistics Module

*Team Leader, Project Developer*

September 2013 - February 2014

*Chengdu, China*

- Develop a demo to crawl and locate mainstream web information under certain domain
- Train a Naive Bayesian Classifier to sufficiently filter out target.

### College Coach Ranking with Mixed AHP

*Team Leader, Designer*

January 2014 - March 2014

*Chengdu, China*

- Build an appraisal system for intercollegiate coaches
- Create and enhance the proposed model

### “Travel”– Android based tourism memory system

*Team Leader, Project Developer*

February 2014 - March 2014

*Chongqing, China*

- Internship project to simulate WeChat
- Manage team to meet deadline

### Carsharing

*Project Developer*

March 2014 - May 2014

*Chengdu, China*

- App based on BaiduMap API

## TECHNICAL STRENGTHS

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### Computer Languages

C & C ++, Python, Matlab, Java

### Protocols & APIs

Google/Protobuf, XML, JSON

### Tools

Git, Sublime, Caffe

## HONORS AND AWARDS

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| Graduation Thesis Awarded First Prize(2 recipients in SE department)        | 2015 |
| Outstanding Graduate of Sichuan University(6 recipients in SE department)   | 2015 |
| Second Prize, Chinese International Software Design and Application Contest | 2014 |
| First Prize, Waterloo Cup   | 2014 |
| Third Prize, Mathematical Contest In Modeling                               | 2014 |
| Outstanding Team, ICS&S Internship Project                                  | 2014 |
| First Prize Scholarship(6 recipients in SE department)                      | 2013 |
| National Aspiration Scholarship   | 2013 |
| Merit Student   | 2013 |
| Excellent League Member   | 2013 |
| Third Prize, Programming Contest, SCU                                       | 2013 |
| National Aspiration Scholarship   | 2012 |
| Merit Student   | 2012 |