

# 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, ArXiv 1506.04395, 2015

## 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.  
Design and create Color-Find android game
- Biometrics.  
Accomplish image mosaicing algorithm

## 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