

# Zuying HU

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## EDUCATION

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<b>The Hong Kong University of Science and Technology (HKUST)</b>	09.2017 - 07.2018
Master of Science in <i>Big Data Technology</i> ; GPA: 4.0/4.3	
<u>Coursework</u> : <i>Foundations of Data Analytics, Big Data Computing, Mathematical Methods for Data Analysis</i>	
<b>The Chinese University of Hong Kong (CUHK)</b> (Joint program with SYSU)	09.2015 - 07.2017
Bachelor of Engineering in <i>Information Engineering</i> (Honors of First Class); GPA: 3.6/4.0	
<b>Sun Yat-sen University (SYSU)</b> (Joint program with CUHK)	08.2013 - 07.2015
Diploma in <i>Electronic Information Science and Technology</i> ; GPA: 3.8/4.0	

### Awards

Top Students Award for MSc BDT Program 2017-2018, HKUST	11.2018
School of Engineering Excellent Student Scholarship, HKUST	02.2018
School of Engineering Entrance Scholarship, HKUST	11.2017
Head's List (Merit) 2015-2016, 2016-2017 of New Asia College, CUHK	09.2017, 09.2016
Dean's List 2015-2016, 2016-2017 of Engineering Faculty, CUHK	07.2017, 07.2016
Third Class Scholarship for Excellent Students of Sun Yat-sen University	08.2015

## PROJECTS

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<b>Opinion Mining</b> , Independent Project	09.2017 - 12.2017
<ul style="list-style-type: none"><li>● Mining topics from course reviews</li><li>● Parsing the reviews by analyzing dependency relations between words in reviews to get dependency parse tree</li><li>● Utilizing double propagation to get opinion words and target words(topics) from reviews with applying extraction rules on dependency tree</li><li>● Pruning topics by setting frequency threshold and generating topic phrases by using compound relation between words</li></ul>	
<b>FP-Growth Algorithm implementation based on Spark Framework</b> , Course Project	10.2017 - 11.2017
<ul style="list-style-type: none"><li>● Implementing of FP-Growth Algorithm in serial</li><li>● Implementing of FP-Growth Algorithm in parallel based on the Framework of Spark</li><li>● Analyzing the speed-up of parallel version compared with serial version</li></ul>	
<b>Food Recognition</b> , Course Project	10.2017 - 11.2017
<ul style="list-style-type: none"><li>● Recognizing Food based on pictures and textual recipes.</li><li>● Combining word embedding and tf-idf to represent food recipes in form of vector and to do dimension reduction, and then applying Multilayer Perceptron to do classification over food recipes.</li><li>● Tuning pre-trained Resnet-152 on food images according to the transfer learning, and then using the tuned CNN to do classification over food images.</li><li>● Combining the results from recipe classification and from image classification based on the logic of ensemble method to improve classification accuracy.</li></ul>	
<b>Image Caption Generator</b> , Undergraduate Thesis Project (Instructor: <b>Dahua LIN</b> )	07.2016 - 05.2017
<ul style="list-style-type: none"><li>● Generating a descriptive sentence to the given image</li></ul>	

- Implementing the Image caption generator by combining Neural Networks including Long-short Term Memory Network (LSTM) and Convolutional Neural Network (CNN) via torch based on language Lua
- Researching on the improvement of the Image Caption Generator by adding attention mechanism in the Recurrent Neural Networks part

## ACTIVITIES

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**“Real Doctor” Artificial Intelligence Research Center**, Zhejiang University, Hangzhou 05.2017 - 08.2017

- Worked as a research assistant supervised by **Professor Jian WU** in the field of applications of artificial intelligence in medicine
- Focused on the applications of computer vision technique in the diagnosis of lung nodule
- Researched on the advances of Convolutional Neural Networks in the field of objects detection, mainly including RCNN and Fast-RCNN

**GLOBEX 2016**, Peking University, Beijing

07.2016 - 08.2016

- Participated in an international Summer Camp offered by Peking University for about 400 international university students
- Took the course of *Future Electric Power System* organized by Peking University and taught by **Professor Yong Tae Yoon** of Seoul National University

## QUALIFICATIONS & SKILLS

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**GRE:** 329 (Q167/ V162);

**TOEFL:** 94 (R27/L26/S20/W21);

**Computer:** C++, Python

## INTERESTS & HOBBIES

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Reading (Especially detective novels), Chinese History Research