Zexi Han

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Available: **January – August 2018**

EDUCATION

Northeastern University, Boston, MA — Jan 2017-Present
College of Computer and Information Science — Expected graduation: Dec 2018
Candidate for a Master of Science in Data Science

Related Courses: Algorithms, Machine Learning, Data Mining, Nature Language Processing, Computer Vision, Parallel Data Processing in MapReduce

Beijing University of Posts and Telecommunications, Beijing, China — Sept 2012-Jun 2016
Joint Program with Queen Mary University of London — GPA: 3.5/4.0
Bachelor of Science in Telecommunications Engineering, with the First Class Honors

Related Courses: Data Structures, Artificial Intelligence, Software Engineering, Linear Algebra, Probability Theory and Stochastic Process, Principles of Communications
Awards: BUPT Outstanding Final Project (Rank 12/680)

TECHNICAL KNOWLEDGE

Coding: Java, R, Matlab, Python, C
Operating System: Windows, Linux, macOS
Machine Learning: Linear/Logistic Regression, SVM, Random Forests, Neural Networks, KNN, PCA
Tools: Caffe, Tensorflow, Spark

RESEARCH EXPERIENCE

Tsinghua University, Beijing, China — May-July 2016
Research Intern, Human Computer Interaction

- Developed an Edge Sensing interaction for smartwatch of Android Wear with SVM
- Built machine learning models to classify the accelerator's motion pattern when tapping from 4/6/8 directions of the smartwatch edge

National Laboratory of Pattern Recognition, Beijing, China — Aug 2015-May 2016
Research Intern, Deep Learning

- Proposed a Three-stage Hybrid Image Retrieval Framework (Classification, Object Detection and Matching) to the task of same design product image retrieval with Deep Learning (CNN)
- Experimented on the ALISC 5 million dataset with 10 high level concepts and 676 sub concepts
- Achieved the best mAP of 57.5 % on makeup and good performance on tops, snacks and drinks

ACADEMIC PROJECTS

Design & Build Winter Hack in London — Oct 2015-Feb 2016

- Teamed up with 10 British and 10 Chinese students to work on NAO Robot at EECS Electronics Lab of QMUL
- Implemented image recognition and interactive motions for NAO Robot

Electronic Keyboard Scientific Project — July 2014-Sept 2014

- Designed and made the circuits according to the functional objectives
- Developed the teaching mode feature by programming C on the single chip microcomputer
- Scored 97/100 (60/600+)

MEBO Visualized Microenvironment Monitoring System — May 2014-May 2015

- Developed a multi-sensor embedded system using Arduino
- Realized the visualization of indoor environment variables and innovative interaction design
- Received wide acclaim in the innovation exhibition and won the Second National Prize

INTERESTS

Artificial Intelligence, Computer Vision, Fine Arts