**Jiayi Wei**

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**Education**

Beijing University of Posts and Telecommunications Expected to graduate on Mar. 2019

Candidate for Master of Science in Electrical Engineering

Beijing University of Posts and Telecommunications Graduate on Jul. 2016

Candidate for Bachelor Degree of Engineering

**Academic Experiences**

Study On Preprocessing of Music Melody Extraction Mar. 2016 – May. 2016

* Created a classification model to detect voice frames in polyphonic music
* Analyzed the discrimination of speech and music signals
* Implemented logistic regression and feature selection from MIRToolbox
* Achieved 78% accuracy on voice detection of 648 music excerpts

Signal Processing and Speaker Recognition based on MATLAB Jul. 2015 – Aug. 2015

* Developed a text-independent speaker recognition project
* Used MFCC features with LBG Vector Quantization
* Achieved 95% accuracy on general speaker recognition of 20 speakers

Intelligent Temperature-Control Compressor Nebulizer System Jul. 2014 – Sep. 2014

Principal Investigator, Group Work Project

* Designed a method to detect and control the aerosols temperature
* Applied statistics and analysis of experimental data to achieve precision control
* Organized all devices with MCU, planned circuits welding and modification
* Perfectly produced the constant temperature aerosols for health care use

**Working Experiences**

Computer Vision Engineer, Samsung Research Beijing Aug. 2016 – Dec. 2016

Internship, Computer Vision Team

* Participated in lane detection project implementation
* Optimize algorithm performance and reduce detection time

**Social Experiences**

Volunteered at National Library of China Reader Service Center Apr. 2014 – Jun. 2015