JIEXIN GUO

2357.5 Tilbury Avenue, Pittsburgh, PA 15217 ♦ jiexing@andrew.cmu.edu ♦ Cell Phone: 412.353.5950

EDUCATION	**Carnegie Mellon University** Pittsburgh, PA
	Master of Science in Electrical and Computer Engineering MAY 2016
	Sun Yat-Sen University Guangzhou, China
	Master of Engineering (Computer Technology) MAY 2016
	Sun Yat-Sen University Guangzhou, China
	Bachelor of Engineering in Electronics and Communication Engineering June 2014

PROJECTS

Feature based melanoma recognition from skin images   NOVEMBER 2014-NOW
- Implemented Active Contour segmentation to segment the lesion
- Applied **neural network** to classify melanoma and non-melanoma images
- 10-fold validation and ROC curve analysis are used to verify the performance of the classification
- Received an overall classification accuracy of more than 88%

Basic Speech Recognition System, *In Speech Recognition*   FALL 2014
- Implemented recording voice process, extracting MFCC feature and digit recognition using Dynamic Time Warping algorithm
- Can recognize single digits successfully, less successful in continuous digits' recognition

Lineloss Calculation based on Distributed Platform,   SUMMER 2014
- Developed algorithms to compute the electric loss on transporting lines based on **Hadoop** and **Storm** distributed platform
- Became a subproject of a business project collaborate with China Southern Power Grid

iGEM 2013 software, International Genetically Engineered Machine Competition   FALL 2013
- Built a webserver with **FLASK** python framework and **SQLite** database to simulate experiments
- Charted plasmid sequence in an intuitive and detailed way on webpage
- Best Software Project of iGEM 2013 world Jamboree

Genomic Advisor, *social connection between 23andme*   SPRING 2013
- Genomic Advisor is an app that can predict drug allergy and genetic diseases
- Imported user gene information from 23andme to Genomic Advisor's database
- Translation the app between English and Chinese

iGEM 2012 software, International Genetically Engineered Machine Competition   FALL 2012
- **Core programmer** of this project
- Develop a toolbox for biologists to view gene or biobrick information and simulate experiments
- Two individual awards of iGEM 2012 world Jamboree

AWARDS   **China National scholarship for graduate students,**   November 2014

RELEVANT COURSES

How to write fast code	Foundations of Computer Architecture
Speech Recognition	Biomedical Imaging & Analysis

SKILLS

Application Software: MATLAB, Netbeans, Visual Studio, Eclipse
Programming Languages: C++, Java, Python, HTML, JavaScript