

# Chenxiao Huang

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## EDUCATION

### Master of Biomedical Engineering Beihang University

Sept.2018-  
Jun.2021(Expected)

GPA : 3.79

- 1<sup>st</sup> Academic scholarship of Beihang University

#### Related Modules:

- Biomedical Signal Processing (score: 90)
- Medical Image Processing and Imaging Technique Experiment (score: 92)

### Bachelor of Electronic and Information Engineering Shandong University of Science and Technology

Sept.2014-Jun.2018

GPA: 3.78

- Professional Ranking Top 5%
- School Council Scholarship of Shandong University of Science and Technology
- Academic Scholarship of Shandong University of Science and Technology
- Scientific and Innovative Elitists of Shandong University of Science and Technology
- 1<sup>st</sup> prize in the 2017 National Undergraduate Electronic Design Contest
- 2<sup>nd</sup> prize in the 2017 Certificate Authority Cup International Mathematical Contest in Modeling
- 1<sup>st</sup> prize in the 2016 Robot Competition of Shandong Province

## RESEARCH EXPERIENCES

### Reconstruction of Mandarin speech with ultrasound images of tongue using neural networks | Researcher

Sept.2019-Present

*Dept. of Biomedical Engineering, Beihang University*

- Charactered ultrasound image features using convolutional Autoencoder
- Extracted mel spectrogram from speech signals
- Generated mel spectrogram from ultrasound image features using Attention-based biLSTM

### Establishment Ultrasound and audio synchronized acquisition system based on Verasonics platform | Team Leader

Jul.2019-Aug.2019

*Dept. of Biomedical Engineering, Beihang University*

- Reconstructed Ultrasound images based on Verasonics platform
- Achieved the acquisition of Ultrasound images and audios synchronously

### Design of multi-physiological signals detection system | Team Leader

Mar.2019-Jun.2019

*Dept. of Biomedical Engineering, Beihang University*

- Built multi-physiological signals acquisition system based on single chip computer
- Built process and display system of measured signals (Labview)

### Target tracking of objects in video | Researcher

Sept.2017-May.2018

*Dept. of Electronic and Information Engineering, Shandong University of Science and Technology*

- Extracted histogram of oriented gradient from images
- Tracked target in the video by kernelized correlation filters

## SOCIAL SERVICES

### Hostess of New Year party

1<sup>st</sup>.Jan.2019

*Dept. of Biomedical Engineering of Beihang University*

### Vice President of Science Association

Sept.2015-Jul.2016

*Shandong University of Science and Technology*

## SKILLS

- Knowledge: Machine Learning, Digital Signal Processing, Image Processing
- Skills: Python, Matlab, C language
- English Level: CET-6 (514) IELTS (Preparing)