

Research Interests ___

Speech Processing, Speaker Verification, Audio Signal Processing, Machine Learning, Sequence Learning

Education

Tsinghua University

Haidian District, Beijing, 100084

Aug 2016 - Present

B.S. IN DEPT. OF ELECTRONIC ENGINEERING

Grades

GPA 3.77/4.0 TOEFL 107

• **GRE** 166(Verbal)+170(Quantitative)+4.0(Analytical Writing)

Experiences _____

University of Rochester, Audio Information Research (AIR) Lab

160 Trustee Rd, Rochester, NY 14642

Jun 2019 - Sep 2019

May 2018 - Present

VISITING STUDENT RESEARCHER

- Worked with Professor Zhiyao Duan on spoofing speaker verification (SV) systems.
- Built an efficient multi-speaker text-to-speech model trained with GAN.
- · Performed experiments on spoofing effects of synthetic speech on SV systems and anti-spoofing systems.
- Click to read REPORT. https://github.com/MingruiYuan/cv_reports/tree/master/SpoofSV
- Code (coming soon).

Tsinghua University, Speech and Audio Technology Lab (SATLAB)

Haidian District, Beijing, 100084

STUDENT RESEARCHER

• Worked with Professor Weigiang Zhang on speech processing and speaker verification.

worked with Professor Welqiang Zhang on speech processing and speaker verification

Investigated functions of different features in replay attack detection.
Click to read REPORT. https://github.com/MingruiYuan/cv_reports/tree/master/ReplayAttackDetection

• Investigated real-time speech enhancement based on recurrent neural networks.

Haidian District, Beijing, 100084

Course Project

• Course project of Introduction to Auditory-visual Information System.

• Source separation and localization based on auditory and visual information.

Oct 2018 - Dec 2018

Background _____

Tsinghua University

Mathematics

Calculus, Linear algebra, Functions of complex variables, Probability, Stochastic processes

Professional Courses

SIGNALS AND SYSTEMS, DIGITAL SIGNAL PROCESSING, SPEECH PROCESSING, STATISTICAL SIGNAL PROCESSING, MACHINE LEARNING, DEEP LEARNING, INTRODUCTION TO AUDITORY-VISUAL INFORMATION SYSTEM

Programming

C PYTHON MATLAB PROGRAMMING, DATA STRUCTURES AND ALGORITHMS

Honors & Awards

Academic Excellence Award

Awarded by Dept. of Electronic Engineering

2017,2018