

Jiawei Yu

INFORMATION

Department of Electronics Engineering and Computer Science
Beijing Language and Culture University
Beijing

Phone: 86-15600530323
Email: vyujiawei@gmail.com
Website: cserv.github.io

EDUCATION

Beijing Language and Culture University (BLCU) Beijing, China

- M.S. in Computert Science. 2017-2020
 - *Advisor*: Prof. Jinsong Zhang
 - *Overall GPA*: 3.63/4.0 (90.1/100, top 1%)
 - *Main works*: Using acoustic and articulatory features to improve language recognition under deep learning framework.

Changchun University of Technology (CCUT) Changchun, China

- B.S. in Computert Science. 2012-2016
 - *Overall GPA*: 3.52/4.0 (86.4/100, top 1%)

INTERNSHIP

Center for Speech and Language Technologies(CSLT), Tsinghua University Beijing, China

- **Research intern, supervised by Prof. Dong Wang.** Sep, 2018-July, 2019
 - Researched on speaker recognition using attention mechanism.
 - Researched on zero-resource language recognition.

RESEARCH PROJECTS

- **Articulatory features based TDNN model for language recognition**
 - Researched on the application of articulatory information in deep neural network based language recognition [3].
- **Zero-resource language recognition**
 - Proposed a recognized scheme for low resource languages [4].
- **Phonetic-attention for deep speaker verification**
 - Researched on applying attention mechanism to improve the discriminability between speaker vectors.

PUBLICATIONS AND PATENTS

1. **Jiawei Yu**, Minghao Guo, and Jinsong Zhang, "Articulatory Features Based Dilated LSTM Model for Short Utterance Language Recognition," in *2021 Spoken Language Technology Workshop (SLT)*. IEEE, 2021. (submitted)
2. **Jiawei Yu**, "An Overview of Speech Emotion Recognition," One chapter in the book "Basic Law for ASR" in Center for Speech and Language Technologies(CSLT) internal in Tsinghua University. 2019. (Under processing)
3. **Jiawei Yu**, Minghao Guo, Yanlu Xie, and Jinsong Zhang, "Articulatory Features Based TDNN Model for Spoken Language Recognition," in *2019 International Conference on Asian Language Processing (IALP)*. IEEE, 2019.

4. **Jiawei Yu** and Jinsong Zhang, "Zero-resource Language Recognition," in *2019 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)*. IEEE, 2019.
5. **Jiawei Yu**, Yanlu Xie, Jinsong Zhang, "Robust Language Identification using X-vectors", *proceedings of the 13th Phonetics Conference of China*, PCC 2018.
6. Jinsong Zhang, **Jiawei Yu** and Yanlu Xie, Patent No. GCN190618, "The Method of Articulatory Features Based TDNN Model for Spoken Language Recognition," 2019.

ACADEMIC ACTIVITIES

- **Reviewer**

International Conference on Asian Language Processing (IALP) 2019

Asia-Pacific Signal and Information Processing Association (APSIPA) 2019

- **Presentation**

Made an oral presentation for the Paper [4] in Lanzhou, 2019.11

Made an poster presentation for the Paper [3] in Shanghai, 2019.10

Made an oral presentation for the Paper [5] in Guangzhou, 2018.11

TEACHING EXPERIENCES

- 2019 Fall and Spring Tutor for **Higher Mathematics**, College of Information Science, Beijing Language and Culture University.
- 2018 Fall and Spring Tutor for **Linear Algebra**, College of Information Science, Beijing Language and Culture University.

GRANT AND AWARDS

- 2019.08 **Best Student Paper Award**, National Conference on Man-Machine Speech Communication (NCMMSC), Qinghai.
- 2018-2019 **2nd Prize of Excellent Undergraduate Scholarship**, BLCU.
- 2018.10 **6th Place** in the Oriental Language Recognition (OLR) 2018 Challenge, Hawaii.
- 2018-2017 **3rd Prize of Excellent Undergraduate Scholarship**, BLCU.
- 2012-2016 **1st Prize Scholarship** in four consecutive years (1%), CCUT.
- 2014.10 **1st Prize** in Jilin Contest District in China Contemporary Undergraduate Mathematical Contest in Modeling, Changchun.
- 2014.09 **Bronze Medal** in The ACM International Collegiate Programming Contest (ACM-ICPC) Asia Regional Contest Changchun Site, Changchun.
- 2014.06 **1st Prize** in Programming Contest of CCUT(1%), CCUT.

KNOWLEDGE AND SKILLS

Theoretical Background

- Machine learning, Language recognition, Speaker recognition.

Technical Skills

- Programming languages: C/C++, Python, SHELL.
- Toolkits: Kaldi, TensorFlow, L^AT_EX.