

# Jiawei Yu

## INFORMATION

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## EDUCATION

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**Beijing Language and Culture University (BLCU)** Beijing, China

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

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**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

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- **Articulatory features based TDNN model for language recognition**
  - Researched on the application of articulatory information in deep neural network based language recognition [2].
- **Zero-resource language recognition**
  - Proposed a novel recognized scheme for low resource languages [3].
- **Phonetic-attention for deep speaker verification**
  - Researched on applying attention mechanism to improve the discriminability between speaker vectors.

## PUBLICATIONS AND PATENTS

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1. **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)
2. **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. (Accepted)

3. **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. (Accepted)
4. **Jiawei Yu**, Yanlu Xie, Jinsong Zhang, "Robust Language Identification using X-vectors", *proceedings of the 13<sup>th</sup> Phonetics Conference of China*, PCC 2018.
5. Jinsong Zhang, **Jiawei Yu** and Yanlu Xie, Patent No. GCN190618, "The Method of Articulatory Features Based TDNN Model for Spoken Language Recognition," 2019. (submitted)

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## 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 [2] in Qinghai, 2019.08

Made an oral presentation for the Paper [4] in Guangzhou, 2018.11

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## 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.

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## 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.

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## KNOWLEDGE AND SKILLS

### Theoretical Background

- Machine learning, Deep learning, Language recognition, Speaker recognition.

### Technical Skills

- Programming languages: C/C++, Python, SHELL.
- Toolkits: Kaldi, TensorFlow, L<sup>A</sup>T<sub>E</sub>X.