

# Jing-Xuan Zhang

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## Objective

Speech Synthesis, Voice Conversion Engineer

## Education

- 2020.2-2020.8, School of Informatics, University of Edinburgh, UK
  - Visiting PhD student supported by China scholarship council | IELTS score 7.0 / 9.0
- 2016.9-2021.6, School of Information Sci. & Tech., University of Sci. & Tech. of China (USTC), China
  - Doctoral degree of electronic engineering and information science | Avg. score 90 / 100
- 2012.9-2016.6, School of Gifted Young, USTC, China
  - Bachelor's degree of electronic engineering and information science | Avg. score 88 / 100

## Experience

- 2020.2 -2020.8, The Center for Speech Technology Research (CSTR), University of Edinburgh
  - Speech generation from lip videos and ultrasound images. Supervisor: Prof. Korin Richmond;
  - Gave a report "Sequence-to-Sequence Based Voice Conversion" in CSTR Talk;
  - Engaged in "Voice Conversion Challenge 2020".
- 2016.9 -2021.6, National Engineering Laboratory for Speech and Language Information Processing (NELSLIP), USTC
  - Research on sequence-to-sequence based voice conversion and text-to-speech generation.  
Supervisor: Prof. Li-Rong Dai, Associate Prof. Zhen-Hua Ling.
- 2017.11-2018.8, Text-to-Speech Group, iFLYTEK Research
  - Engaged in "Voice Conversion Challenge 2018" and our system won the first place;
  - Voice conversion based on sequence-to-sequence acoustic model;
  - Enhanced the voice quality of WaveNet model using a DNN based SE model.
- 2016.11-2017.5, Project of Speech Enhancement on Mobile Device, SAMSUNG Research and NELSLIP
  - Responded for realization and optimization of low-latency SE model, lower PESQ >0.1 compared to the baseline.
- 2015.5-2016.5, National Undergraduate Innovation Projection, USTC
  - Build a speech-to-singing system with GUI interface, based on acoustic parameters controlling.

## Publications

- **Jing-Xuan Zhang**, Zhen-Hua Ling, Li-Rong Dai, "Non-Parallel Sequence-to-Sequence Voice Conversion with Disentangled Linguistic and Speaker Representations", IEEE/ACM Trans. on Audio, Speech and Lang. Proc., 2020  
**Open-source project**, Github: [https://github.com/jxzhanggg/nonparaSeq2seqVC\\_code](https://github.com/jxzhanggg/nonparaSeq2seqVC_code)
- **Jing-Xuan Zhang**, Zhen-Hua Ling, Li-Juan Liu, Yuan Jiang, Li-Rong Dai, "Sequence-to-Sequence Acoustic Modeling for Voice Conversion", IEEE/ACM Trans. on Audio, Speech, and Lang. Proc., 2019
- **Jing-Xuan Zhang**, Zhen-Hua Ling, Li-Rong Dai, "Recognition-Synthesis Based Non-Parallel Voice Conversion with Adversarial Learning", INTERSPEECH, 2020, submitted
- **Jing-Xuan Zhang**, Zhen-Hua Ling, Yuan Jiang, Li-Juan Liu, Liang Chen, Li-Rong Dai, "Improving Sequence-to-Sequence Voice Conversion by Adding Text-Supervision", ICASSP, 2019
- **Jing-Xuan Zhang**, Zhen-Hua Ling, Li-Rong Dai, "Forward Attention in Sequence-to-Sequence Acoustic Modeling for Speech Synthesis", ICASSP, 2018
- Yang Ai, **Jing-Xuan Zhang**, Zhen-Hua Ling, "DNN-Based Spectral Enhancement For Neural Waveform Generators With Low-Bit Quantization", ICASSP, 2019
- Xin Wang, *et al.*, **Jing-Xuan Zhang**, Zhen-Hua Ling, "ASVspoof 2019: a large-scale public database of synthetic, converted and replayed speech", Computer Speech and Language, 2019

For more information, please visit my personal page: [https://jxzhanggg.github.io/online-cv\\_en/](https://jxzhanggg.github.io/online-cv_en/)

## Honors

- 2016-2020, First-Level Postgraduate Student Academic Scholarship, USTC
- 2014-2015, National Endeavor Scholarship, USTC
- 2012-2013, Outstanding Student Scholarship, USTC