RONGLAI ZUO

Department of Computer Science and Engineering, HKUST, Hong Kong SAR, China
Email: rzuo@cse.ust.hk & Homepage: https://2000zrl.github.io

EDUCATION

The Hong Kong University of Science and Technology *Sep. 2020 - Jul. 2024 (expected)*

- Pursuing Ph.D. in Computer Science and Engineering
- Research Interests: Sign Language Recognition/Translation/Generation
- Supervisor: Prof. Brian Mak

University of Science and Technology of China *Sep. 2016 - Jul. 2020*

- Special Class for the Gifted Young
- Talent Program in Artificial Intelligence
- B.Eng. in Electronic Information Engineering

PUBLICATIONS

*co-first authors

- Zhe Niu*, **Ronglai Zuo***, Brian Mak, and Fangyun Wei, "A Hong Kong Sign Language Corpus Collected from Sign-interpreted TV News," **LREC-COLING**, Torino, Italy, 2024.
- **Ronglai Zuo** and Brian Mak, "Improving Continuous Sign Language Recognition with Consistency Constraints and Signer Removal," ACM **TOMM**, 2024.
- **Ronglai Zuo**, Fangyun Wei, and Brian Mak, "Natural Language-Assisted Sign Language Recognition," **CVPR**, Vancouver, Canada, 2023.
- Yutong Chen*, **Ronglai Zuo***, Fangyun Wei*, Yu Wu, Shujie Liu, and Brian Mak, "Two-Stream Network for Sign Language Recognition and Translation," **NeurIPS**, New Orleans, USA, 2022, ***Spotlight***.
- **Ronglai Zuo** and Brian Mak, "C2SLR: Consistency-enhanced Continuous Sign Language Recognition," **CVPR**, New Orleans, USA, 2022.
- **Ronglai Zuo** and Brian Mak, "Local Context-aware Self-attention for Continuous Sign Language Recognition," **Interspeech**, Incheon, Korea, 2022.
- **Ronglai Zuo**, Fangyun Wei, and Brian Mak, "Towards Online Sign Language Recognition and Translation," Under review, 2024.
- **Ronglai Zuo***, Fangyun Wei*, Zenggui Chen, Brian Mak, Jiaolong Yang, and Xin Tong, "A Simple Baseline for Spoken Language to Sign Language Translation with 3D Avatars," Under review, 2024.

EMPLOYMENT

Microsoft Research Asia *Apr. 2022 - Oct. 2023*

- Research Intern: Sign Language Recognition/Translation/Generation.
- Mentor: Dr. Fangyun Wei

Texas A&M University *Jun. 2019 - Sep. 2019*

- Research Assistant: Voxel-based 3D Neuroimage Segmentation.
- Mentor: Prof. Shuiwang Ji

RESEARCH EXPERIENCES

Adversarial Learning for Semi-supervised Lung Tumor Segmentation. (Bachelor Thesis)
USTC, China, *Jan. 2020 - May 2020*

- Leverage GAN to fulfill semi-supervised learning for lung tumor segmentation.
- Get a DICE coefficient of 0.765 with half training data and exceed the baseline performance by 3.4% on a private dataset.

AWARDS

- **Stars of Tomorrow**, Microsoft Research Asia *2023*
- **Outstanding Graduate**, USTC *2020*
- **Bronze Award for Outstanding Students** (Top 30%), USTC *2017–2019*

TALKS

- **Vision-Based Sign Language Processing**, iBUG Group, Imperial College London *Jan. 2024*

SERVICES

- Conference Reviewer: CVPR, ICCV, ECCV, ACCV, NeurIPS, ICLR
- Journal Reviewer: TMM, PR, IPM

TEACHING ASSISTANT

- COMP2012 Object-Oriented Programming and Data Structures *Fall 2023*
- COMP2011 Programming with C++ *Spring 2021, Fall 2021*

REFEREES

Prof. Brian Mak

- Relationship: Ph.D. supervisor
- Contact: mak@cse.ust.hk

Dr. Fangyun Wei

- Relationship: Mentor at Microsoft Research Asia
- Contact: fawe@microsoft.com

Dr. Jiaolong Yang

- Relationship: Collaborator at Microsoft Research Asia
- Contact: jiaoyan@microsoft.com