RONGLAI ZUO

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

EDUCATION

Hong Kong University of Science and Technology *Sep. 2020 - Aug. 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

- **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.
- Zhe Niu*, **Ronglai Zuo***, Brian Mak, and Fangyun Wei, "A Hong Kong Sign Language Corpus Collected from Sign-interpreted TV News", Under Review, 2023.
- **Ronglai Zuo** and Brian Mak, "Improving Continuous Sign Language Recognition with Consistency Constraints and Signer Removal", Under Review, 2022.

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.

Voxel-based 3D Neuroimage Segmentation. TAMU, USA, *Jul. 2019 - Sep. 2019*

- Get familiar with PyTorch and works on voxel-based 3D image segmentation.
- Completely reimplement the multi-GPU version of the SOTA work, Flood-Filling Network.

WORK EXPERIENCES

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

- Research Intern: Sign Language Recognition and Translation.
- Mentor: Fangyun Wei

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

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

TEACHING ASSISTANT

- COMP2011 Programming with C++ *Spring 2021, Fall 2021*

AWARDS

- Outstanding Graduate of USTC *2020*
- Bronze Award for Outstanding Students of USTC (Top 30%) *2017–2019*

SERVICES

- Conference Reviewer: **CVPR** 2023, **ICCV** 2023
- Journal Reviewer: **TMM**

SKILLS

- **Program Languages:** Python, Matlab, C/C++, LaTeX
- **Operating Systems:** Linux (Ubuntu, CentOS), Windows
- **Development Platforms and Softwares:** PyTorch
- **Languages:** Mandarin(native), English(fluent)