RONGLAI ZUO

Huxley Building, South Kensington Campus, Imperial College London, UK

[Email]   [Homepage]   [Google Scholar]

EDUCATION

The Hong Kong University of Science and Technology   *Sep. 2020 - Aug. 2024*

- Ph.D. in Computer Science and Engineering, Supervisor: Prof. Brian Mak
- Thesis: Vision-Based Sign Language Processing: Recognition, Translation, and Generation.

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

EMPLOYMENT

Imperial College London   *Oct. 2024 - Present*

- Postdoctoral Research Associate: Sign Language Processing (Recognition/Translation/Generation).
- Supervisor: Dr. Jiankang Deng and Prof. Stefanos Zafeiriou

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

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

PUBLICATIONS

*co-first authors

- Guanren Qiao, Sixu Lin, **Ronglai Zuo**, Zhizheng Wu, Kui Jia, and Guiliang Liu, "SignBot: Learning Human-to-Humanoid Sign Language Interaction," Under review, 2025.

- **Ronglai Zuo**, Rolandos Alexandros Potamias, Evangelos Ververas, Jiankang Deng, and Stefanos Zafeiriou, "Signs as Tokens: A Retrieval-Enhanced Multilingual Sign Language Generator," **ICCV**, Honolulu, USA, 2025.

- **Ronglai Zuo**, Fangyun Wei, and Brian Mak, "Towards Online Continuous Sign Language Recognition and Translation," **EMNLP**, Miami, USA, 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," **ECCV**, Milan, Italy, 2024, ***Oral***.

- **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.

- Zhe Niu*, **Ronglai Zuo***, Brian Mak, and Fangyun Wei, "A Hong Kong Sign Language Corpus Collected from Sign-interpreted TV News," **COLING**, Turin, Italy, 2024, ***Oral***.

INVITED TALKS

- Vision-Based Sign Language Processing, DERI, Queen Mary University of London   *Nov. 2024*
- Vision-Based Sign Language Processing, iBUG Group, Imperial College London   *Jan. 2024*

SUPERVISION

- Karlee Sun, MSc, Universal Sign Language Tokenizers   *Feb. 2025 - Present*

AWARDS

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

SERVICES

- Conference Reviewer: CVPR, ICCV, ECCV, WACV, ACCV, NeurIPS, ICLR, AAAI

- Journal Reviewer: IJCV, TIP, TMM, TCSVT, THMS, PR, IPM

TEACHING ASSISTANT

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