





# Shiwei Gan

 Nanjing University  
 +86 187-3765-1026  
 sw@smail.nju.edu.cn

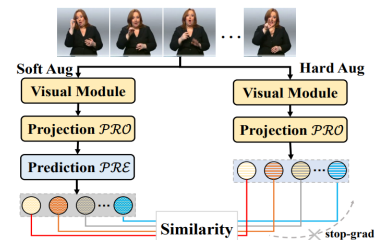
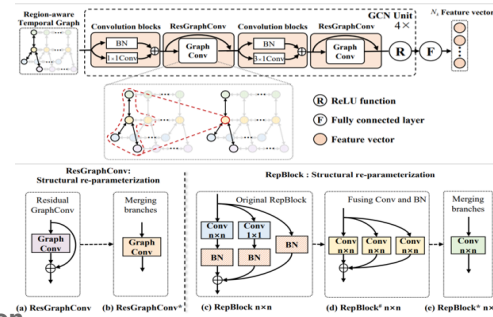
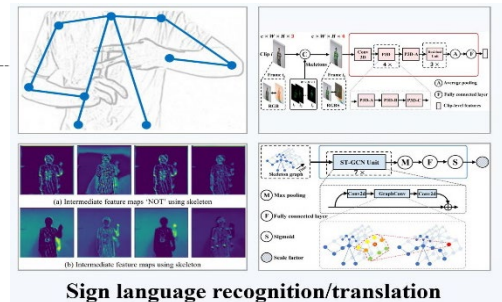
 My current research interest is in deep learning and video-language representation, in particular, sign language recognition and translation  
 GitHub: <https://github.com/gswycf>

## Education Background

- **PH.D. 2019.07~Now**      **Nanjing University**      **Department of Computer Science and Technology**  
Average score: 90.53      Advised by Professor Sanglu Lu and Associate Researcher Yafeng Yin
- **B.S. 2015.09~2019.06**      **Hunan University**      **College of Computer Science and Electronic Engineering**  
Average score: 87.26      Rank: 4/184 (3.26%)

## Research

- **Shiwei Gan, Yafeng Yin, Zhiwei Jiang, Lei Xie, Sanglu Lu. [Skeleton-Aware Neural Sign Language Translation](#)**. In Proceedings of the 29th ACM International Conference on Multimedia. 2021.
  - Overview: We propose a Skeleton-Aware neural Network for end-to-end SLT by fully exploiting skeletal modality in three aspects: designing a self-contained branch for skeleton extraction, concatenating skeleton and RGB channels for feature extraction, constructing a skeleton-based GCN for feature scaling.
- **Shiwei Gan, et al. Towards Real-Time Sign Language Recognition and Translation on Edge Devices**. Submitted to IJCAI 2023
  - Overview: We achieve real-time sign language translation without GPU by designing a lightweight region aware temporal GCN and adopting structural re-parameterization.
- **Shiwei Gan, et al. Contrastive Learning for Sign Language Recognition and Translation**. Submitted to IJCAI 2023
  - Overview: We tackle two widely existing problems in CSLR and SLT: CTC spike phenomenon and the exposure bias problem. We tackle these issues by introducing contrast learning, aiming to enhance both visual-level feature representation and semantic-level error tolerance.



## Selected Honors

- 2021.12 Outstanding Graduate Student of Nanjing University
- 2021.11 Guorui Scholarship in Nanjing university (4 out of whole department)
- 2019-2022 First Prize of Academic Scholarship for three consecutive years in Nanjing university
- 2015-2018 The national inspirational scholarship for three consecutive years in Hunan University
- 2015-2017 Miyoshi students for two consecutive years in Hunan University
- 2018.04 First prize of Hunan university ACM
- 2018.04 Bronze medal in Hubei Province ACM

## Skills, Activities and Advantages

- CET-4: 525, CET-6: 498, IELTS: 7.0 (Listening:6.5, Reading: 8.5, Writing: 6.0, Speaking: 6.0)
- CCF Certified Software Professional: 360 (1%)
- Teaching Assistant at Nanjing University: Data Structure, Fall 2020-2022
- Hardworking, Highly motivated