Shiwei Gan

📍 Nanjing University

📞 +86 187-3765-1026
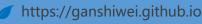
✉️ sw@smail.nju.edu.cn

📅 1997.06.16

👤 Male

🖊️ https://ganshiwei.github.io

Education Background

- **PH.D. 2023.10~2024.10   The University of Warwick , Department of Computer Science   Coventry, UK**
  Visiting student sponsored by CSC Scholarship   Advised by Professor Hongkai Wen

- **PH.D. 2019.07~2025.06   Nanjing University   Department of Computer Science and Technology**
  Average score: 90.53   Advised by Professor Sanglu Lu and Associate Researcher Yafeng Yin
  Thesis: Video-based Sign Language Recognition and Translation

- **B.S.   2015.09~ 2019.06   Hunan University   College of Computer Science and Electronic Engineering**
  Average score：87.26   Rank：4/184 (3.26%)

Publication

- **Shiwei Gan**, Yafeng Yin, Zhiwei Jiang, Hongkai Wen, Lei Xie, Sanglu Lu. **SignGraph: A Sign Sequence is Worth Graphs of Nodes**. In CVPR 2024. **CCF-A conference**

- Kang Xia, Wenzhong Li, **Shiwei Gan**, Sanglu Lu. **TS2ACT: Few-Shot Human Activity Sensing with Cross-Modal Co-Learning.** In Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies 2024. **CCF-A Journal**

- **Shiwei Gan**, Yafeng Yin, Zhiwei Jiang, Lei Xie, Sanglu Lu. **Contrastive Learning for Sign Language Recognition and Translation**. In IJCAI 2023. **CCF-A conference**

- **Shiwei Gan**, Yafeng Yin, Zhiwei Jiang, Lei Xie, Sanglu Lu. **Towards Real-Time Sign Language Recognition and Translation on Edge Devices**. In ACM MM 2023. **CCF-A conference**

- **Shiwei Gan**, Yafeng Yin, Zhiwei Jiang, Lei Xie, Sanglu Lu. **Skeleton-Aware Neural Sign Language Translation**. In ACM MM 2021. **CCF-A conference**

Paten

- **Yafeng Yin, Shiwei Gan, Lei Xie, Sanglu Lu. A real-time sign language recognition and translation system and method based on edge devices. Application Publication Number: CN117218725A**

- **Yafeng Yin, Shiwei Gan, Lei Xie, Sanglu Lu. A Sign Language Recognition System and Method Based on Spatiotemporal Semantic Features. Application Publication Number: CN111797777A**

Selected Honors

- **China Scholarship Council (CSC) Scholarship**   **2022 – 2023**
  Selected through a rigid academic evaluation process organized by CSC

- **Huawei Scholarship in Nanjing university**   (Top 7 PHDs)   **2023**

- **Guorui Scholarship in Nanjing university**   (Top 4 PHDs)   **2023**

- **Outstanding Graduate in Nanjing University** (Top 1%)   **2021, 2023**

- **Postgraduate Academic Scholarship in Nanjing university**   **2019-2024**
  First Prize of Academic Scholarship (Top 5%), 209-2022
  Talent Training Program (Top 1%),   2023

- **Undergraduate Academic Awards**   **2015-2019**
  The national inspirational scholarship in Hunan University 2015，2016，2018
  Miyoshi students in Hunan University 2016，2017
  Bronze medal in Hubei Province ACM 2018.04
  Second Prize of Electronic System Training Skills Contest Hunan University   2017.09
  First prize of Group Programming Ladder Tournament 2017.03
  First prize of Hunan university ACM 2018.04

Skills, Activities

- **IELTS: 7.0 (Listening:6.5, Reading: 8.5, Writing: 6.0, Speaking: 6.0)**

- **CCF Certified Software Professional： 360 (Top 1%)**

- **Teaching Assistant**
  Course: CS933-15 Image and Video Analysis, The University of WarwickFall 2023
  Course: Computer Network, Nanjing UniversitySpring 2024
  Course: Data Structure, Nanjing University 2019-2022

- **Invigilator at the University of Warwick, May, 2024**

- **Reviewer**
  Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies(IMWUT) 2024
  ACM Multimedia   2021, 2023, 2024
  AAAI Conference on Artificial Intelligence 2021

Project

- **Sign language recognition based on graph convolution**   **2023-2024**
  Project funding: Postgraduate Research & Practice Innovation Program of Jiangsu Province
  Project leader, only participant

- **Research on multimodal behavior recognition technology on mobile devices**   **2022-203**
  Project funding: National Natural Science Foundation of China
  Main participants