Shiwei Gan

 Nanjing University

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 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**

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- **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 Selected through a rigid academic evaluation process organized by CSC	**2022 – 2023**
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 First Prize of Academic Scholarship (Top 5%), 209-2022 Talent Training Program (Top 1%), 2023	**2019-2024**

- **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

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教育背景

- **PH.D. 2023.10~2024.10**　**华威大学，计算机科学系**　　**英国，考文垂**
  访问学生　　　　　　　中国留学基金委资助　　　　导师：**Hongkai Wen** 教授

- **PH.D. 2019.07~2025.06**　**南京大学，计算机学科与技术系**
  课程均分: 90.53　　　　导师：**Sanglu Lu** 教授 & **Yafeng Yin** 教授
  研究课题: 手语识别与翻译

- **B.S.　2015.09~ 2019.06**　**湖南大学，信息科学与工程学院**
  课程均分：87.26　　排名：4/184 （3.26%）

论文与刊物

- **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会议**

- 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 期刊**

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

- **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 会议**

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

- **Shiwei Gan,** YaFeng Yin, ZhiWei Jiang, Lei Xie, Sang-Lu Lu. Vision-based Sign Language Translation via a Skeleton-Aware Neural Network[J]. Journal of Computer Science and Technology 2024　　**CCF-B 期刊**

授权专利

- 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

获奖荣誉

- **中国留学基金委奖学金　南京大学**　　　　　　　　　　　　　　**2022 – 2023**
  通过CSC组织的学术评估选择

- **华为奖学金**　　　　**南京大学**(Top 7 PHDs)　　　　　　　**2023**

- **国瑞奖学金**　　　　**南京大学**(Top 4 PHDs)　　　　　　　**2023**

- **优秀研究生**　　　　**南京大学**Top 1%)　　　　　　　**2021, 2023**

- **研究生奖学金**　　　**南京大学**　　　　　　**2019-2024**
  研究生学业一等奖学金(Top 5%), 209-2022　学业奖学金培优项目(Top 1%)， 2023

- **本科阶段**　　　　　　**湖南大学**　　　　　　　　　　　　　　　　　**2015-2019**
  3次国家励志奖学金　　　　　　　　　　　　　　　　　　　2015，2016，2018
  2次荣获三好学生　　　　　　　　　　　　　　　　　　　　　　2016，2017
  今日头条杯湖北省ACM省赛铜牌　　　　　　　　　　　　　　　　　2018.04
  第十三届湖南大学程序设计大赛二等奖　　　　　　　　　　　　　　2017.09
  团体程序设计天梯赛团队一等奖（华中赛区：第二）　　　　　　　　2017.03
  湖南大学程序设计大赛一等奖　　　　　　　　　　　　　　　　　　2018.04

技能与实践活动

- **雅思: 7.0 (听力:6.5, 阅读: 8.5, 写作: 6.0, 口语: 6.0) 2023**

- **CCF计算机软件能力认证 360分（全国排名：前1%）**

- **助教**
  课程: CS933-15 Image and Video Analysis,　　华威大学　2023年秋
  课程: 计算机网络,　　　　　　　　　　　　　南京大学　2024年春
  课程: 数据结构,　　　　　　　　　　　　　　南京大学　2019-2022

- **监考员** 华威大学, 2024年5月

- **会议与期刊的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

项目

- **Sign language recognition based on graph convolution**　　　　　　**2023-2024**
  项目资助: 江苏省研究生科研与实践创新计划
  项目领导者，主要唯一负责人

- **Research on multimodal behavior recognition technology on mobile devices**　　**2022-203**
  项目资助： 国家自然科学基金
  主要参与人