

Youngjoon Jang

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RESEARCH INTEREST

- My research aims to effectively train deep neural networks with multi-modality (vision, audio and text). In particular, I am interested in automatic sign language recognition for helping deaf people.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) Ph.D. in Division of Future Vehicle, School of Electrical Engineering; Advisor: Joon Son Chung	Daejeon, South Korea Sep. 2022 – Present
Korea Advanced Institute of Science and Technology (KAIST) M.S. in Division of Future Vehicle, School of Electrical Engineering; Advisor: In So Kweon o Thesis: Learning Methodology According to Characteristics of Continuous Sign Language Recognition Dataset	Daejeon, South Korea Mar. 2020 – Feb. 2022
Kwangwoon University B.S. in Division of Robotics; GPA: 4.3/4.5	Seoul, South Korea Mar. 2014 – Feb. 2020

WORK EXPERIENCE

University of Oxford Postdoctoral Researcher, VGG group	Oxford, UK Nov. 2025 - current
Korea Advanced Institute of Science and Technology (KAIST) Postdoctoral Researcher, Multimodal AI Lab.	Daejeon, South Korea Sep. 2025 - Nov. 2025
University of Oxford Visiting student, VGG group	Oxford, UK May. 2024 - Nov. 2024
Korea Advanced Institute of Science and Technology (KAIST) Researcher, Multimodal AI Lab.	Daejeon, South Korea Mar. 2022 - Aug. 2022

PUBLICATION

International Journals

- o [J2] EDNet: A Distortion-Agnostic Speech Enhancement Framework with Gating Mamba Mechanism and Phase Shift-Invariant Training.
Doyeop Kwak, Youngjoon Jang, Seongyu Kim, and Joon Son Chung
o IEEE Transactions on Audio, Speech and Language Processing (TASLP), 2026.
- o [J1] Deep Understanding of Sign Language for Sign to Subtitle Alignment.
Youngjoon Jang, Jeongsu Choi*, Junseok Ahn, and Joon Son Chung*
o IEEE Transactions on Multimedia (TMM), 2025.

International Conferences

- o [C18] LP-CFM: Perceptual Invariance-Aware Conditional Flow Matching for Speech Modeling.
Doyeop Kwak, Youngjoon Jang, and Joon Son Chung
o International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2026.
- o [C17] FastAV: Efficient Token Pruning for Audio-Visual Large Language Model Inference.
Chae young Jung, Youngjoon Jang, and Joon Son Chung
o International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2026.
- o [C16] AVCD: Mitigating Hallucinations in Audio-Visual Large Language Models through Contrastive Decoding.
Chae young Jung, Youngjoon Jang*, and Joon Son Chung*
o Neural Information Processing Systems (NeurIPS), 2025.
- o [C15] Test-Time Augmentation for Pose-invariant Face Recognition.
Jaemin Jung, Youngjoon Jang*, and Joon Son Chung*
o International Conference on Automatic Face and Gesture Recognition (FG), 2025.
- o [C14] Lost in Translation, Found in Context: Sign Language Translation with Contextual Cues.
Youngjoon Jang, Haran Raajesh*, Lilane Momeni, Gülden Varol, Andrew Zisserman*
o Computer Vision and Pattern Recognition Conference (CVPR), 2025.
- o [C13] VoiceDiT: Dual-Condition Diffusion Transformer for Environment-Aware Speech Synthesis.
Jaemin Jung, Junseok Ahn*, Chae young Jung, Tan Dat Nguyen, Youngjoon Jang, and Joon Son Chung*
o International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2025.

- [C12] Let Me Finish My Sentence: Video Temporal Grounding with Holistic Text Understanding.
Jongbin Woo, Hyeonggon Ryu, Youngjoon Jang, Jae Won Cho, and Joon Son Chung
◦ ACM International Conference on Multimedia (ACMMM), 2024.
- [C11] Faces that Speak: Jointly Synthesising Talking Face and Speech from Text.
Youngjoon Jang, Ji-Hoon Kim*, Junseok Ahn, Doyeop Kwak, Hongsun Yang, Yooncheol Ju, ILHWAN KIM, Byeong-Yeol Kim, and Joon Son Chung*
◦ Computer Vision and Pattern Recognition Conference (CVPR), 2024.
- [C10] Slowfast Network for Continuous Sign Language Recognition.
Junseok Ahn, Youngjoon Jang*, and Joon Son Chung*
◦ International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2024.
- [C9] VoxMM: Rich Transcription of Conversations in the Wild.
Doyeop Kwak, Jaemin Jung, Kihyun Nam, Youngjoon Jang, Jee-weon Jung, Shinji Watanabe, and Joon Son Chung
◦ International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2024.
- [C8] FreGrad: Lightweight and Fast Frequency-aware Diffusion Vocoder.
Tan Dat Nguyen, Ji-Hoon Kim, Youngjoon Jang, Jaehun Kim, and Joon Son Chung
◦ International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2024.
- [C7] TalkNCE: Improving Active Speaker Detection with Talk-aware Contrastive Learning.
Chaeyoung Jung, Suyeon Lee, Kihyun Nam, Kyeongha Rho, You Jin Kim, Youngjoon Jang, and Joon Son Chung
◦ International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2024.
- [C6] Seeing Through the Conversation: Audio-visual Speech Separation based on Diffusion Model.
Suyeon Lee, Chaeyoung Jung, Youngjoon Jang, Jaehun Kim, and Joon Son Chung
◦ International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2024.
- [C5] That's What I said: Fully-Controllable Talking Face Generation.
Youngjoon Jang, Kyeongha Rho*, Jongbin Woo, Hyeongkeun Lee, Jihwan Park, Youshin Lim, Byeong-Yeol Kim, and Joon Son Chung*
◦ ACM International Conference on Multimedia (ACMMM), 2023.
- [C4] Self-Sufficient Framework for Continuous Sign Language Recognition.
Youngjoon Jang, Youngtaek Oh, Jae Won Cho, Myungchul Kim, Dong-Jin Kim, In So Kweon, and Joon Son Chung
◦ International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023. (Top 3% Paper Recognition)
- [C3] Metric Learning for User-Defined Keyword Spotting.
Jaemin Jung, Youkyum Kim*, Jihwan Park, Youshin Lim, Byeong-Yeol Kim, Youngjoon Jang, and Joon Son Chung*
◦ International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.
- [C2] Signing Outside the Studio: Benchmarking Background Robustness for Continuous Sign Language Recognition.
Youngjoon Jang, Youngtaek Oh, Jae Won Cho, Dong-Jin Kim, Joon Son Chung, and In So Kweon
◦ British Machine Vision Conference (BMVC), 2022.
- [C1] KSL-Guide: A Large-scale Korean Sign Language Dataset Including Interrogative Sentences for Guiding the Deaf and Hard-of-Hearing.
Soomin Ham, Kibaek Park, Youngjoon Jang, Youngtaek Oh, Seokmin Yun, Sukwon Yoon, Chang Jo Kim, Han-Mu Park, and In So Kweon
◦ International Conference on Automatic Face and Gesture Recognition (FG), 2021.

AWARDS & HONORS

International Competitions

- 1st Place, R-BIZ Challenge TURTLEBOT3 AUTORACE, Nov. 2018
- 5th Place, Sumo Robot, International Robot Contest (IRC), Oct. 2018
- 3rd Place, R-BIZ Challenge TURTLEBOT3 AUTORACE, Sep. 2017
- 5th Place, RoboCup Iran Open Rescue, Apr. 2017

National Competitions

- 2nd Place, Science and Technology Specialized University Startup Competition (GIST), Nov. 2021
- 2nd Place, App Startup Support Program Contest (KAIST), Apr. 2021
- 1st Place, RoboCup Korea Open Rescue, Feb. 2017

TEACHING

Teaching Assistance (TA) at FV, KAIST

- * PD513: Future Vehicle Capstone Design (Spring, 2023)
- * PD513: Future Vehicle Capstone Design (Fall, 2022)
- * PD806: Automobile Special Topics in Mechanical Engineering (Fall, 2021)

TECHNICAL SKILLS

Programming: C, C++, Python, Pytorch