

# Jeongsoo Choi

Ph.D. candidate, Multimodal AI Lab.

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## Contact

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## Research Interest

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My research interests lie in Multimodal Machine Learning, Speech Processing, and applications.

- Multilingual and Multimodal Machine Translation
- Audio-Visual Speech Recognition and Generation

## Work Experience

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<b>Microsoft</b> , Beijing, China	May. 2024 - Oct. 2024
Research Intern, Speech Team	
- Advisors: Shujie Liu and Jinyu Li	

## Education

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<b>Ph.D.</b> in Electrical Engineering, <b>KAIST</b>	Sep. 2020 - Present
- Advisor: Prof. Joon Son Chung	
<b>B.S.</b> in Electrical Engineering, <b>KAIST</b>	Mar. 2015 - Aug. 2020

## Publications

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### Peer-Reviewed Conferences

- C9. **Jeongsoo Choi\***, Se Jin Park\*, Minsu Kim\*, Yong Man Ro  
“AV2AV: Direct Audio-Visual Speech to Audio-Visual Speech Translation with Unified Audio-Visual Speech Representation”  
**CVPR 2024**
- C8. **Jeongsoo Choi**, Minsu Kim, Se Jin Park, Yong Man Ro  
“Text-driven Talking Face Synthesis by Reprogramming Audio-driven Models”  
**ICASSP 2024**
- C7. Minsu Kim, **Jeongsoo Choi**, Soumi Maiti, Jeong Hun Yeo, Shinji Watanabe, Yong Man Ro  
“Towards Practical and Efficient Image-to-Speech Captioning with Vision-Language Pre-training and Multi-modal Tokens”  
**ICASSP 2024**
- C6. Se Jin Park, Minsu Kim, **Jeongsoo Choi**, Yong Man Ro  
“Exploring Phonetic Context-Aware Lip-Sync For Talking Face Generation”  
**ICASSP 2024**
- C5. **Jeongsoo Choi\***, Joanna Hong\*, Yong Man Ro  
“DiffV2S: Diffusion-based Video-to-Speech Synthesis with Vision-guided Speaker Embedding”  
**ICCV 2023**

C4. Minsu Kim\*, Jeong Hun Yeo\*, **Jeongsoo Choi**, Yong Man Ro  
“Lip Reading for Low-resource Languages by Learning and Combining General Speech Knowledge and Language-specific Knowledge”  
**ICCV 2023**

C3. **Jeongsoo Choi**, Minsu Kim, Yong Man Ro  
“Intelligible Lip-to-Speech Synthesis with Speech Units”  
**Interspeech 2023**

C2. Joanna Hong\*, Minsu Kim\*, **Jeongsoo Choi**, Yong Man Ro  
“Watch or Listen: Robust Audio-Visual Speech Recognition With Visual Corruption Modeling and Reliability Scoring”  
**CVPR 2023**

C1. Se Jin Park, Minsu Kim, Joanna Hong, **Jeongsoo Choi**, Yong Man Ro  
“SyncTalkFace: Talking Face Generation with Precise Lip-Syncing via Audio-Lip Memory”  
**AAAI 2022**

### Peer-Reviewed Journals

J2. Minsu Kim\*, **Jeongsoo Choi\***, Dahun Kim, Yong Man Ro  
“Textless Unit-to-Unit training for Many-to-Many Multilingual Speech-to-Speech Translation Learning with Unit-to-Unit Translation”  
**TASLP 2024: IEEE/ACM Transactions on Audio, Speech, and Language Processing**

J1. Jeong Hun Yeo, Minsu Kim, **Jeongsoo Choi**, Dae Hoe Kim, Yong Man Ro  
“AKVSR: Audio Knowledge Empowered Visual Speech Recognition by Compressing Audio Knowledge of a Pretrained Model”  
**TMM 2024: IEEE Transactions on Multimedia**

### Programming Skills

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#### Languages

- Python, C/C++, and MATLAB

#### Deep Learning Libraries

- Pytorch, Fairseq, and HuggingFace

### References

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#### Prof. Joon Son Chung

- School of Electrical Engineering, KAIST  
- Email: joonson@kaist.ac.kr  
- Homepage: <https://mmai.io/joon>  
- Relationship: Ph.D. advisor at KAIST