Jiu FENG

🎓 Google Scholar   ✉ jiufeng2000@gmail.com
GitHub   🌐 Personal Homepage

Reasearch Interets

My research focuses on Multimodal AI Generation and Understanding, with particular emphasis on Vision-Language Models and Audio-Visual Perception. Currently, I'm working on expressive 3D human generation, including co-speech gesture and avatar generation. I also have prior experience in adversarial training.

Education

The University of Texas at Austin   *Austin, TX*
Ph.D. in Computer Science.   *Aug. 2024 - Present*

KAIST   *Daejeon, South Korea*
M.S. in Electrical Engineering. **GPA:4.3/4.3**   *Aug. 2022 - Jun. 2024*
Supervisor: Prof. Joon Son Chung

Sichuan University (SCU)   *Chengdu, China*
B.Eng. in Software Engineering. **GPA: 3.92/4.0, Ranking: 3/215 (Top 1.4%)**   *Sept. 2018 - Jun. 2022*
Supervisor: Prof. Qijun Zhao
Member of Wu YuZhang Honors College.

Position Experience

UT-Austin.   *Austin, TX*
Teaching Assistant.   *Aug. 2024 - Present*

KAIST. Multimodal AI (MMAI) Lab.   *Daejeon, South Korea*
Research Assistant.   Supervisor: Prof. Joon Son Chung   *Aug. 2022 - Jun. 2024*

KAIST. Robotics and Computer Vision (RCV) Lab.   *Daejeon, South Korea*
Research Intern.   Supervisor: Prof. In So Kweon   *Nov. 2021 - Apr. 2022*

Publications & Preprints

[6] Audio Mamba: Bidirectional State Space Model for Audio Representation Learning.
Mehmet Hamza Erol, Arda Senocak*, **Jiu Feng**, Joon Son Chung.*
Signal Processing Letters [Link]

[5] ElasticAST: An Audio Spectrogram Transformer for All Length and Resolutions
***Jiu Feng**, Mehmet Hamza Erol, Joon Son Chung, Arda Senocak.*
INTERSPEECH 2024 [Link]

[4] From Coarse To Fine: Efficient Training for Audio Spectrogram Transformers.
Jiu Feng, Mehmet Hamza Erol*, Joon Son Chung, Arda Senocak.*
ICASSP 2024 [Link]

[3] FlexiAST: Flexibility is What AST Needs.
Jiu Feng, Mehmet Hamza Erol*, Joon Son Chung, Arda Senocak.*
INTERSPEECH 2023 [Link]

[2] Decoupled adversarial contrastive learning for self-supervised adversarial robustness.
Chaoning Zhang, Kang Zhang*, Chenshuang Zhang, Axi Niu, **Jiu Feng**, Chang D. Yoo, and In So Kweon.*
ECCV 2022 (**Oral**) [Link]

[1] Noise augmentation is all you need for FGSM fast adversarial training: Catastrophic overfitting and robust overfitting require different augmentation.
Chaoning Zhang, Kang Zhang*, Axi Niu, Chenshuang Zhang, **Jiu Feng**, Chang D. Yoo, and In So Kweon.*
arXiv e-prints (2022) [Link]

Awards & Scholarships

KAIST Full Scholarship for M.S. Students	*2022*
Provincial Outstanding Graduates (*Top 3% in Sichuan Province*)	*2022*
National Scholarship by Ministry of Education of China (*Top **0.2%** in China*)	*2021*
Special Award of Wang Wen Guo Scholarship (*5 Winners in Honors College*)	*2021*
First-class Scholarship of Sichuan University (*Top 2% in SCU*)	*2021*
National Encouragement Scholarship (*Awarded for two years*)	*2019*

Competition Experience

- **First Prize**(*Top 5%*) in the Asia and Pacific Mathematical Contest in Modeling (APMCM) in 2021
- **Meritorious Winner** in Interdisciplinary Contest In Modeling (ICM) in 2020
- **Gold Medal** in International Genetically Engineered Machine Competition (IGEM) in 2020
- **National Second Prize**(*Top 2%*) in "Higher Education Cup" Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM) in 2019

Skills

Languages	Chinese: Native, English: Fluent (IELTS 7.5).
Coding	Python, Pytorch, Java, C, SQL, HTML, CSS, JavaScript, MATLAB.
Misc.	Photography, Video Editing, Chinese Calligraphy.