

Jiu FENG

 Google Scholar  jiufeng2000@gmail.com
 GitHub  Personal Homepage

Research Interests

My research focuses on multi-modal deep learning, especially Vision-Language Model, Video Understanding, and Audio-Visual Perception. Currently, I am working on topics that utilize Vision-LLM (e.g., LLaVA) for nuanced perception and reasoning capabilities. I also had experience on Adversarial Training in my early time.

Education

The University of Texas at Austin Austin, TX
Ph.D. in Computer Science. Aug. 2024 - Present
Supervisor: Prof. Kristen Grauman

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
Research Assistant. Supervisor: Prof. Kristen Grauman 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 (<i>Top 3% in Sichuan Province</i>)	2022
National Scholarship by Ministry of Education of China (<i>Top 0.2% in China</i>)	2021
Special Award of Wang Wen Guo Scholarship (<i>5 Winners in Honors College</i>)	2021
First-class Scholarship of Sichuan University (<i>Top 2% in SCU</i>)	2021
National Encouragement Scholarship (<i>Awarded for two years</i>)	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.