



# KEMOU LI<sup>ID</sup>

Ph.D. Student, University of Macau

[GoogleScholar]

+853 62517633

kemou.li@connect.umac.mo

N21-5006, University of Macau

## EDUCATION

### University of Macau

Ph.D. in Computer Science

- Supervisor: Prof. Jiantao Zhou

2024 – Present

Macau SAR, China

### University of Macau

M.Sc. in Artificial Intelligence Applications (Research Track)

- Supervisor: Prof. Jiantao Zhou
- Master Thesis: *Regroup Median Loss for Combating Label Noise*

2021 – 2023

Macau SAR, China

### Sun Yat-sen University

B.Sc. in Mathematics and Applied Mathematics

- Supervisor: Prof. Zhiwei Wu
- Bachelor Thesis: *The Representation of Lie Algebra of G<sub>2</sub>-Type and Associated Integrable Functions*

2017 – 2021

Guangdong, China

## ACADEMIC & INDUSTRY EXPERIENCE

### Research Assistant / Intern

State Key Laboratory of IOTSC, University of Macau

- Provide mathematical foundations and efficient algorithms in trustworthy ML

Aug. 2021 – July 2024

Macau SAR, China

### Data Analyst Intern

IT and Business Support Center, China Telecom Guangdong Branch

- Detect abnormal and out-of-distribution data using statistical algorithms

Summer 2019

Guangdong, China

## RESEARCH INTERESTS

**Trustworthy Machine Learning:** Adversarial Training, Label-noise Learning, Out-of-Distribution Generalization

**AI Security and Forensics:** Backdoor Learning, Membership Inference, Deepfake Detection

## PUBLICATIONS

### Trustworthy Machine Learning

- DAT: Improving Adversarial Robustness via Generative Amplitude Mix-up in Frequency Domain.



Fengpeng Li, Kemou Li, Haiwei Wu, Jinyu Tian, Jiantao Zhou.

In *The 38th Annual Conference on Neural Information Processing Systems (NeurIPS-24)*, 2024. [CCF A]



- Regroup Median Loss for Combating Label Noise.



Fengpeng Li, Kemou Li, Jinyu Tian, Jiantao Zhou.

In *The 38th AAAI Conference on Artificial Intelligence (AAAI-24)*, 2024. [CCF A] [Oral, Top 2.2%]

## AWARDS & HONOURS

Inclusion·The Global Multimedia Deepfake Detection (Image Track).

Aug. 2024

🏆 1st Place (1/706, JTGroup Team). [NEWS]

## TEACHING EXPERIENCE

### Teaching Assistant

Department of Computer and Information Science, University of Macau

- [CISC7014] Advanced Topics in Computer Science (Image Processing and Pattern Recognition) (Fall 2024)

## PROFESSIONAL SERVICES

### Conference Reviewer / Program Committee

- Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC 2024)