

# Fengpeng LI

Computer Information Science | Faculty of Science and Technology | University of Macau, Taipa, Macau SAR

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## Education

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- S.K.Lee Honors College, China University of Geosciences (Wuhan), Wuhan, Hubei, PRC, China, Sept 2014 – June 2018
- BS in Remote Sensing Science and Technology. Advisor: IEEE Fellow, Prof. Lizhe Wang  
School of Computer Science, China University of Geosciences (Wuhan), Wuhan, Hubei, PRC, China, Sept 2018 – June 2021
- MS in Compute Science and Technology (Exempt from Admission Exam). IEEE Fellow, Prof. Lizhe Wang  
Faculty of Science and Technology & State Key Laboratory of Internet of Things for Smart City, University of Macau, Macau SAR Aug 2021 – Jan 2026
- PhD in Compute Science and Technology (Full scholarship). Advisor: Prof. Jiantao Zhou  
PRADA Lab, Division of CEMSE, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia Aug 2021 – Jan 2026
- Postdoc Research Fellow. Advisor: Prof. Di Wang

## Research Interests

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- **Trustworthy Machine Learning:** The deep model's robustness against safety threats including label noise, adversarial attacks, privacy information leaking and prompt attacks for LLMs and Diffusion Models.
- **Remote Sensing image processing:** Functional zone classification and earth observation information processing with multi-modality data.

## Honors and Awards

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National scholarship for Graduate Students	2020
Outstanding Graduates of China University of Geosciences(Wuhan)	2021
Outstanding Master Thesis of China University of Geosciences(Wuhan)	2021
Champion of Global Multimedia Deepfake Detection Challenge	2024
UM Macao Fund PhD Assistant scholarship	Aug 2021- Dec 2025
China Academy of Science Earth Science Elite Scholarship, third-class scholarship	2015&2016
China Academy of Science Earth Science Elite Scholarship, first-class scholarship	2017
National Mathematical Modeling Contest for College Students, first prize in the Hubei province contest area	2017

## Publications

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### Published

- F. Li, K. M. Li, H. Wu, J. Y. Tian and J. T. Zhou\*, AEGIS: Adversarial Target-Guided Retention-Data-Free Robust Concept Erasure from Diffusion Models, Proceedings of International Conference of Presentation (NeurIPS-24), 2024. (CCF-A) 2024
- F. Li, K. M. Li, J. Y. Tian and J. T. Zhou\*, Regroup Median Loss for Combating Label Noise, Proceedings of AAAI Conference on Artificial Intelligence (AAAI-24), 2024 (Oral) (CCF-A) 2024
- F. Li, K. M. Li, Q. Z. Wang, B. Han, J. Y. Tian and J. T. Zhou\*, RML++: Regroup Median Loss for Combating Label Noise, Int. J. Comput. Vis. (IJCV), pp. 1-22, 2025. (CCF-A, JCR Q1) 2025

- F. Li**, K. M. Li, H. Wu, J. Y. Tian and J. T. Zhou\*, Towards Robust Learning via Core Feature-aware Adversarial Training, IEEE Trans. Inf. Forensics Secur.(TIFS), 2025 (CCF-A, JCR Q1) 2025
- F. Li**, R. Feng, W. Han, and L. Wang\*, High-resolution remote sensing image scene classification via key filter bank based on convolutional neural network, IEEE Trans. Geosci. Remote Sens. (TGRS), vol.58, no.11, pp. 8077-8092, 2020. (CCF-B, JCR Q1) 2020
- F. Li**, R. Feng, W. Han, L. Wang\*, Ensemble model with cascade attention mechanism for high-resolution remote sensing image scene classification, Opt. Express (OE), vol. 28, no. 12, pp. 22358-22387, 2020. (JCR Q1) 2020
- F. Li**, R. Feng, W. Han, L. Wang\*, An augmentation attention mechanism for high-spatial-resolution remote sensing image scene classification, IEEE J. Sel. Top. Appl. Earth Observ. Remote Sens. (JSTARS), vol.13, pp.3862-3878,2020.(JCR Q1) 2020
- F. Li**, J. B. Li, W. Han, R. Feng, and L. Wang\*, Unsupervised Representation High-Resolution Remote Sensing Image Scene Classification via Contrastive Learning Convolutional Neural Network, Photogramm. Eng. Remote Sensing (PERS), vol.87, no.14, pp. 577-591, 2021. (JCR Q3) 2021
- W. Han, R. Fan, L. Wang\*, R. Feng, **F. Li**, Ze Deng and X. Chen, Improving Training Instance Quality in Aerial Image Object Detection with A Sampling-balance based Multi-stage Network, IEEE Trans. Geosci. Remote Sens. (TGRS), DOI:10.1109/TGRS.2020.3038803. (JCR Q1) 2020
- W. Han, J. Chen, L. Wang, R. Feng, **F. Li**, L. Wu, T. Tian, and J. Yan: Methods for small, weak object detection in optical high-resolution remote sensing images: A survey of advances and challenges, IEEE Geosci. Remote Sens. Magazi. (GRSM), DOI: 10.1109/GRSM.2020.3041450. (JCR Q1) 2020
- R. Fan, **F. Li**, W. Han, J. Yan, J. Li, and L. Wang, Fine-scale urban informal settlements mapping by fusing remote sensing images and building data via a transformer-based multimodal fusion network, IEEE Trans. Geosci. Remote Sens. (TGRS), vol.60, no.16, pp. 1-16, 2022. (JCR Q1) 2022
- R. Fan, J. Li, **F. Li**, W. Han, and L. Wang, Multilevel spatial-channel feature fusion network for urban village classification by fusing satellite and street view images, IEEE Trans. Geosci. Remote Sens. (TGRS), vol.60, no.13, pp. 1-13, 2022. (JCR Q1) 2022

## Job Offer

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### Postdoctoral Research Fellow

- King Abdullah University of Science and Technology (KAUST)
- Queen's University Canada

### Faculty Position

- Tenure-track Associate Professor, Northeast Normal University

## Professional Activities

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### Journal and Conference Reviewer

- **Journals:** IEEE Trans. Dependable Secure Comput. (IEEE TDSC), IEEE Trans. Inf. Forensics Secur. (IEEE TIFS), and Eng. Appl. Artif. Intell.(EAAI).
- **Conference:** NeurIPS, ICML, APSIPA, ICLR, AISTATS, AAAI.

### Teaching Assistant

- CISC Programming Science Sept 2021-Dec 2021.
- CIVL1000 computer Science Jan 2024-May 2024.
- CISC7202 Tools for Machine Learning Aug 2021-Dec 2021& Aug 2022-Dec 2022 & Aug 2023-Dec 2023 & Aug 2024-Dec 2024
- CISC7008 Machine Learning and Application in Ocean Science Jan 2025-May 2025.