

Chen FENG, Ph.D.

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Interests

My primary research interests lie in machine learning and computer vision, with a focus on developing robust algorithms to learn with imperfect information in real-world data, and advancing general AI safety and robustness. I dedicated my research to various problem settings in these fields and published several works in self-supervised learning, contrastive learning (ICPR'22, CVPR'23/24, WACV'24), model safety certification (AAAI'25) and learning with noisy labels (BMVC'22, ACM MM'24, TCSVT'24).

Employment

- 2024.3 – present **Leverhulme Research Fellow**, University College London, London, UK
Supervisor: Prof. Miguel Rodrigues
Working as research fellow on Leverhulme Trust project "Liability for Autonomous Decision Systems".
- 2023.9 – 2023.12 **EU Horizon AI4Media Research Fellow**, University of Trento, Trento, Italy
Supervisor: Prof. Nicu Sebe
Working as visiting scholar in Trento MHUG Lab as Junior Exchange Fellow.

Education

- 2019.10 – 2024.5 **Ph.D.** Queen Mary University of London, London, UK
Supervisor: Prof. Ioannis Patras, Dr. Georgios (Yorgos) Tzimiropoulos
Thesis: Towards more efficient and effective representation learning with imperfect supervisions
Examiner: Dr. Qianni Zhang, Prof. Tao Xiang
- 2016.9 – 2019.6 **M.Sc.** Tsinghua University, Beijing, China
- 2012.9 – 2016.6 **B.Sc.** Nankai University (985/211 project), Tianjin, China

Research service


- Program Committees ICML, NeurIPS, ICLR, CVPR, ICCV, ECCV, BMVC, AAAI, ACCV, ICPR, IJCNN, AISTATS, COLM
- Reviewers Image and Vision Computing, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), IEEE Transactions on Neural Networks and Learning Systems (TNNLS), IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), IEEE Transactions on Image Processing (TIP), International Journal of Computer Vision (IJCV)
- Chair/Co-Chair **BMVA Symposium on AI Security**, ICIRA 2024 Special Session (Human-Centric AI in Clinical Robotics: Bridging the Future of Healthcare), **ICME 2025 Workshop in Multimedia in Underwater Information Processing and Exploration**
- Speaker **RIKEN: Imperfect Information Learning Team Seminar**
- Membership Association for Computing Machinery (ACM), Institute of Electrical and Electronics Engineers (IEEE), The Computer Vision Foundation (CVF), The British Machine Vision Association (BMVA)
- Association **Outstanding young scholars society (OYSS)**, **China-Britain Artificial Intelligence Association (CBAIA)**

Recent Projects








- 2024.8–present **Rethinking Noise Transition Matrix in Learning with Noisy Labels**
Leverhulme Trust, £294,694
We analyze the mainstream modeling in learning with noisy labels, theoretically distinguish the impact of different noises, and propose a new statistical-consistent framework that integrates sample selection techniques.
- 2024.5–2024.12 **Investigating Impacts of Out-of-Distribution Samples in Representation Learning**
AI4Media, Horizon Europe, €11,999,722
We refine the problem of learning with noisy labels by addressing the often-overlooked issue of out-of-distribution samples (a.k.a open-set noise), and provides a theoretical analysis of different open-set versus closed-set noise, validating these insights with newly proposed dataset benchmarks.
- 2024.4–2024.10 **Provably Safe Certification for Machine Learning Models**
Leverhulme Trust, £294,694
We present a new approach to prove the performance of machine learning models in the presence of adversarial attacks with population-level expected risk guarantees.

Research Publications

Journal Articles

- 1 C. Feng, G. Tzimiropoulos, and I. Patras, “NoiseBox: Towards More Efficient and Effective Learning with Noisy Labels,” *IEEE Transactions on Circuits and Systems for Video Technology*, Jul. 2024, **JCR Quartile: Q1**, ISSN: 1558-2205.  DOI: [10.1109/TCSVT.2024.3426994](https://doi.org/10.1109/TCSVT.2024.3426994).

Conference Proceedings

- 1 C. Feng, Z. Liu, Z. Zhi, I. Bogunovic, C. Gerner-Beuerle, and M. Rodrigues, “PROSAC: Provably safe certification for machine learning models under adversarial attacks,” in *The 39th Annual AAAI Conference on Artificial Intelligence (AAAI) [Oral]*, **CORE Rating: A***, Feb. 2025.  DOI: <https://doi.org/10.48550/arXiv.2402.02629>.
- 2 C. Feng, G. Tzimiropoulos, and I. Patras, “CLIPCleaner: Cleaning Noisy Labels with CLIP,” in *The 32nd ACM International Conference on Multimedia (ACM MM)*, **CORE Rating: A***, Oct. 2024.  DOI: <https://doi.org/10.1145/3664647.3680664>.
- 3 Z. Gao, C. Feng, and I. Patras, “Self-Supervised Representation Learning with Cross-Context Learning between Global and Hypercolumn Features,” in *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, **CORE Rating: A**, Jan. 2024.  DOI: [10.1109/WACV57701.2024.00179](https://doi.org/10.1109/WACV57701.2024.00179).
- 4 Z. Sun, C. Feng, I. Patras, and G. Tzimiropoulos, “LAFS: Landmark-based Facial Self-supervised Learning for Face Recognition,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, **CORE Rating: A***, Jun. 2024.  DOI: [10.1109/CVPR52733.2024.00162](https://doi.org/10.1109/CVPR52733.2024.00162).
- 5 C. Feng and I. Patras, “MaskCon: Masked Contrastive Learning for Coarse-Labelled Dataset,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, **CORE Rating: A***, Jun. 2023.  DOI: [10.1109/CVPR52729.2023.01907](https://doi.org/10.1109/CVPR52729.2023.01907).
- 6 C. Feng and I. Patras, “Adaptive Soft Contrastive Learning,” in *2022 26th International Conference on Pattern Recognition (ICPR)*, **CORE Rating: B**, Aug. 2022.  DOI: [10.1109/ICPR56361.2022.9956660](https://doi.org/10.1109/ICPR56361.2022.9956660).
- 7 C. Feng, G. Tzimiropoulos, and I. Patras, “SSR: An Efficient and Robust Framework for Learning with Unknown Label Noise,” in *33rd British Machine Vision Conference (BMVC)*, **CORE Rating: A**, Nov. 2022.  URL: <https://bmv2022.mpi-inf.mpg.de/372/>.

Miscellaneous

Selected Awards and Grants

2023	Junior Exchange Fellowship, EU H2020 AI4Media Project
2022	Outstanding reviewer, ICML'22
2019	QMUL PhD Scholarship, Queen Mary University of London
2018	Outstanding International Exchange Scholarship, Tsinghua University
2012–2015	First Class Scholarship, Nankai University
2012	Outstanding High School Graduate, Anhui Province, China

Teaching Experience

QMUL	ECS708U/P - Machine Learning
	ECS797U/P - Machine Learning for Visual Data Analysis
	ECS659U/P - Neural Networks and Deep Learning

Skills

Languages	English (Fluent), Mandarin Chinese (Native).
Coding	PyTorch, Scikit-learn, NumPy, Matplotlib, Pandas, Jupyter, Linux, Git, R, Matlab and C++.

References

Prof. Ioannis Patras

Queen Mary University of London

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Dr. Georgios Tzimiropoulos

Samsung AI Center

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Prof. Nicu Sebe

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