

# Xiaoqing Li

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**Research interests** Image Retrieval and Machine Learning. My research focuses on using deep learning to improve the accuracy of fine-grained image retrieval, and involves related areas such as self-supervised learning and model pre-training.

**Employment**  
**Lecturer** Beijing, China  
Department of Data Science 07/2021–Present  
Capital University of Economics and Business

**Education**  
**Peking University** Beijing, China  
PhD in Applied Mathematics 09/2016–07/2021  
Advisor: Jinwen Ma and Jiansheng Yang  
**Ocean University of China** Qingdao, China  
BA in Information and Computing Science 09/2012–07/2016

**Publications**  
**Polynomial Composition Activations: Unleashing the Dynamics of Large Language Models**  
Zhijian Zhuo, Ya Wang, Yutao Zeng, Xiaoqing Li, Xun Zhou, Jinwen Ma  
*ICIR, 2025.*

**Fine-grained image retrieval by combining attention mechanism and context information**  
Xiaoqing Li, Jinwen Ma.  
*Neural Computing and Applications, 2023.*

**CMMix: Cross-Modal Mix Augmentation Between Images and Texts for Visual Grounding**  
Tao Hong, Ya Wang, Xingwu Sun, Xiaoqing Li, Jinwen Ma  
*International Conference on Neural Information Processing, 2023.*

**On wine label image data augmentation through viewpoint based transformation**  
Xiaoqing Li, Xiaochang Zhang, Zijia Cai, Jinwen Ma.  
*Journal of Signal Processing, 2022.*

**Distributed search and fusion for wine label image retrieval**  
Xiaoqing Li, Jinwen Ma.

**Recent developments of content-based image retrieval (CBIR)**

Xiaoqing Li, Jiansheng Yang, Jinwen Ma.

*Neurocomputing*, 2021.

**Large scale category-structured image retrieval for object identification through supervised learning of CNN and SURF-based matching**

Xiaoqing Li, Jiansheng Yang, Jinwen Ma.

*IEEE Access*, 2020.

**CNN-sift consecutive searching and matching for wine label retrieval**

Xiaoqing Li, Jiansheng Yang, Jinwen Ma.

*Intelligent Computing Theories and Application: 15th International Conference, ICIC 2019*.

Preprints

[1] Wang, Y., Zhuo, Z., Zeng, Y., Zhou, X., Yang, J., & Li, X. (2025). Scale-Distribution Decoupling: Enabling Stable and Effective Training of Large Language Models. arXiv preprint arXiv:2502.15499.

[2] Mian, S., Wang, Y., Gu, N., Wang, Y., & Li, X. (2025). FwNet-ECA: Facilitating Window Attention with Global Receptive Fields through Fourier Filtering Operations. arXiv preprint arXiv:2502.18094.

[3] Zhuo, Z., Zeng, Y., Wang, Y., Zhang, S., Yang, J., Li, X., ... & Ma, J. (2025). HybridNorm: Towards Stable and Efficient Transformer Training via Hybrid Normalization. arXiv preprint arXiv:2503.04598.

Service

Served as reviewer for Neural Computing and Applications, Journal of Signal Processing, IEEE Access, Mathematical Biosciences and Engineering, International Conference on Intelligent Computing, International Conference on Neural Information Processing.

Memberships

Member of Chinese Institute of Electronics since 2020

Teaching

<b>Unstructured data analysis and modeling</b>	Fall 2022
<b>Big data application case analysis</b>	Fall 2022
<b>Unstructured data analysis and modeling</b>	Spring 2023
<b>Unstructured data analysis and modeling</b>	Fall 2023
<b>Unstructured data analysis and modeling</b>	Spring 2024
<b>Unstructured data analysis and modeling</b>	Fall 2024
<b>Unstructured data analysis and modeling</b>	Spring 2025

Honors and  
scholarships

Outstanding research award of Peking University (Peking University)	2020
Qian Minping First Class Scholarship (Peking University)	2020

"AI Challenger" short video real-time classification track biweekly runner-up  
(Sinavation ventures, Sogou and Toutiao) 2020