

CONTACT INFORMATION	SMILE Lab 427 Richards Hall, Northeastern University 360 Huntington Avenue, Boston, MA 02115	Homepage: https://jianglin954.github.io/ E-mail: lu.jiang@northeastern.edu Phone: +1 857 206 1798
RESEARCH INTERESTS	Machine Learning, Computer Vision, Natural Language Processing, Artificial Intelligence	
EXPERIENCE	NEC Laboratories America , Part-Time, Remote Mentors: Manmohan Chandraker, Vijay Kumar, Yi-Wen Chen Research Scientist Intern: Video Reasoning, reinforcement learning, autonomous driving.	Jan 2026—Now
	Amazon Web Services , Seattle, USA Mentors: Hongcheng Wang, Yuanwei Wu, Ziyi Zhao Applied Scientist Intern: Developed an agentic system for image restoration by fine-tuning a VLM to identify degradations, employing an LLM for restoration planning, and training a reinforcement learning agent to optimize tool execution sequences (CVPR 2026).	May 2025—Aug 2025
	Adobe Research , San Jose, USA Mentors: Simon Jenni, Kushal Kafle, Jing Shi Research Scientist Intern: Proposed a quality-controllable search framework that trains an LLM for query refinement and integrates a VLM for text-image semantic matching, resulting in improved retrieval accuracy and higher-quality recommendations (ICLR 2026) .	Sep 2024—Jan 2025
	Tencent Music Entertainment , Shenzhen, China Mentors: Kwok-Wai Hung, Simon Lui Research Intern: Proposed an efficient asymmetric hashing approach for cross-modal and cross-domain retrieval by learning an adaptive bipartite graph that models modality- and domain-level relationships, resulting in more accurate retrieval performance (TCYB 2023).	Nov 2020—Apr 2021
EDUCATION	Northeastern University , Boston, USA Ph.D. Candidate in Computer Engineering	Jan 2023 — Now Advisor: Prof. Yun Raymond Fu
INVITED TALKS	ACLab , Northeastern University, Boston, USA Content: Latent Graph Inference	26/02/2024 Invited by: Prof. Sarah Ostadabbas
TEACHING	Northeastern University , Boston, USA EECE7205 Fundamentals of Computer Engineering EECE5642 Data Visualization DS5220 Supervised Machine Learning	Fall 2025 Spring 2025 Summer 2023, Spring 2024
PROFESSIONAL SERVICES	Reviewer for ICML, NeurIPS, ICLR, CVPR, ICCV, ECCV, AAAI, MM, KDD, ACL, EMNLP, AISTATS IEEE Transactions on Pattern Analysis and Machine Intelligence IEEE Transactions on Knowledge and Data Engineering IEEE Transactions on Image Processing IEEE Transactions on Neural Networks and Learning Systems ACM Transactions on Knowledge Discovery from Data International Journal of Machine Learning and Cybernetics Pattern Recognition, Neural Networks, Multimedia Tools and Applications Scientific Reports, Neurocomputing, Expert Systems With Applications	

SELECTED
PUBLICATIONS

1. **Jianglin Lu**, Yuanwei Wu, Ziyi Zhao, Hongcheng Wang, Felix Jimenez, Abrar Majeedi, Yun Fu. SimpleCall: A Lightweight Image Restoration Agent in Label-Free Environments with MLLM Perceptual Feedback, The IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) Findings, 2026.
2. **Jianglin Lu**, Simon Jenni, Kushal Kafle, Jing Shi, Handong Zhao, Yun Fu. Seeing Through Words: Controlling Visual Retrieval Quality with Language Models, The Fourteenth International Conference on Learning Representations (**ICLR**), 2026.
3. Qihua Dong, Yang Kuo, Ju Lin, Handong Zhao, Yitian Zhang, Yizhou Wang, Huimin Zeng, **Jianglin Lu**, Yun Fu. Ref-Adv: Exploring MLLM Visual Reasoning in Referring Expression Tasks, The Fourteenth International Conference on Learning Representations (**ICLR**), 2026.
4. **Jianglin Lu**, Hailing Wang, Kuo Yang, Yitian Zhang, Simon Jenni, Yun Fu. The Indra Representation Hypothesis for Multimodal Alignment, Thirty-Ninth Conference on Neural Information Processing Systems (**NeurIPS**), 2025.
5. **Jianglin Lu**, Yixuan Liu, Yitian Zhang, Yun Fu. Scale-Free Graph-Language Models, The Thirteenth International Conference on Learning Representations (**ICLR**), 2025.
6. Hailing Wang, **Jianglin Lu**, Yitian Zhang, Yun Fu. Outlier-Aware Post-Training Quantization for Image Super-Resolution, International Conference on Computer Vision (**ICCV**) **Highlight**, 2025.
7. **Jianglin Lu**, Hailing Wang, Yi Xu, Yizhou Wang, Kuo Yang, Yun Fu. Representation Potentials of Foundation Models for Multimodal Alignment: A Survey, The 2025 Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2025.
8. Yixuan Liu, Abel Elekes, **Jianglin Lu**, Rodrigo Dorantes-Gilardi, Albert-Laszlo Barabasi. Unequal Scientific Recognition in the Age of LLMs, The 2025 Conference on Empirical Methods in Natural Language Processing (**EMNLP**) Findings, 2025.
9. **Jianglin Lu**, Yi Xu, Huan Wang, Yue Bai, Yun Fu. Latent Graph Inference with Limited Supervision, Thirty-Seventh Conference on Neural Information Processing Systems (**NeurIPS**), 2023.
10. **Jianglin Lu**, Jie Zhou, Yudong Chen, Witold Pedrycz, Kwok-Wai Hung. Asymmetric Transfer Hashing with Adaptive Bipartite Graph Learning, IEEE Transactions on Cybernetics, 2023.
11. **Jianglin Lu**, Zhihui Lai, Hailing Wang, Yudong Chen, Jie Zhou, Linlin Shen. Generalized Embedding Regression: A Framework for Supervised Feature Extraction, IEEE Transactions on Neural Networks and Learning Systems, 2022.
12. **Jianglin Lu**, Hailing Wang, Jie Zhou, Mengfan Yan, Jiajun Wen. Deep Asymmetric Hashing with Dual Semantic Regression and Class Structure Quantization, Information Sciences, 2022.
13. Tao Wang, **Jianglin Lu**, Zhihui Lai, Jiajun Wen, Heng Kong. Uncertainty-Guided Pixel Contrastive Learning for Semi-Supervised Medical Image Segmentation, International Joint Conference on Artificial Intelligence (**IJCAI**), 2022.
14. **Jianglin Lu**, Hailing Wang, Jie Zhou, Yudong Chen, Zhihui Lai, Qinghua Hu. Low-Rank Adaptive Graph Embedding for Unsupervised Feature Extraction, Pattern Recognition, 2021.
15. **Jianglin Lu**, Jingxu Lin, Zhihui Lai, Hailing Wang, Jie Zhou. Target Redirected Regression with Dynamic Neighborhood Structure, Information Sciences, 2021.
16. Yudong Chen, Sen Wang, **Jianglin Lu**, Zhi Chen, Zheng Zhang, Zi Huang. Local Graph Convolutional Networks for Cross-Modal Hashing, ACM International Conference on Multimedia (**ACM MM**), 2021.
17. **Jianglin Lu**, Zhihui Lai, Jingxu Lin, Qinghong Lin, Jie Zhou. Label Self-Adaption Hashing for Image Retrieval, International Conference on Pattern Recognition (**ICPR**), 2020.

HONORS AND
AWARDS

- Northeastern Outstanding PhD Teaching Award, 2025
ICCV Travel Award, 2025
ICLR Travel Award, 2025
NeurIPS Scholar Award, 2023
Northeastern PhD Network Travel Award, 2023, 2025
Second Prize of National Graduate Student Mathematical Modeling Competition, 2021 (Top 2%)
China National Scholarships, 2020 (1/400)