Ning Liang-bo

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Education

Sep. 2023 – Present	**Ph.D.,** *Computing,*	
	The Hong Kong Polytechnic University (PolyU), Hong Kong, China	
	Supervisor: *Prof. Qing Li & Prof. Wenqi Fan*	
Sep. 2020 – Jun. 2023	**M.E.,** *Control Science and Engineering,*	GPA:88.00/100 or 3.75/4
	Northwestern Polytechnical University (NPU), Xi'an, China	
	Supervisor: *Prof. Zhun-ga Liu*	
Sep. 2016 – Jun. 2020	**B.E.,** *Automation,*	GPA:83.47/100 or 3.34/4
	Northwestern Polytechnical University (NPU), Xi'an, China	

Research Publications

2025

L. Ning, Z. Liang, Z. Jiang, et al., "A Survey of WebAgents: Towards Next-Generation AI Agents for Web Automation with Large Foundation Models." *SIGKDD Conf. Knowl. Discovery Data Min.,* 2025. (**In Press**)

L. Ning, W. Fan, Q. Li, "Exploring Backdoor Attack and Defense for LLM-empowered Recommendations." *arXiv,* 2025. (**Preprint**)

L. Ning, Z. Zhang, W. Ding, et al., "Multi-level Distribution Alignment for Multi-source Universal Domain Adaptation." *IEEE Trans. Neural Networks Learn. Syst.,* 2025. (**JCR:Q1, IF:10.2, Online**)

L. Ning, W. Fan, Q. Li, "Retrieval-Augmented Purifier for Robust LLM-Empowered Recommendation." *arXiv,* 2025. (**Preprint**)

J. Huang, S. Wang, **L. Ning**, et al., "Towards Next-Generation Recommender Systems: A Benchmark for Personalized Recommendation Assistant with LLMs." *arXiv,* 2025. (**Preprint**)

2024

L. Ning, Z. Dai, W. Fan, et al., "Joint Universal Adversarial Perturbations with Interpretations," *arXiv,* 2024. (**Preprint**)

H. Qu, **L. Ning**, R. An, W. Fan, et al., "A Survey of Mamba," *arXiv,* 2024. (**Preprint**)

Y. Ding, W. Fan, **L. Ning**, et al., "A survey on RAG meets LLMs: Towards retrieval-augmented large language models," *SIGKDD Conf. Knowl. Discovery Data Min.,* 2024. (**CCF-A, Online**)

L. Ning, S. Wang, W. Fan, et al., "CheatAgent: Attacking LLM-Empowered Recommender Systems via LLM Agent," *SIGKDD Conf. Knowl. Discovery Data Min.,* 2024. (**CCF-A, Online**)

L. Ning, Z. Dai, J. Su, et al., "Interpretation-Empowered Neural Cleanse for Backdoor Attacks," *The Web Conference,* 2024. (**CCF-A, Online**)

2023

Z. Zhang, Z. Liu, **L. Ning**, et al., "Representation of Imprecision in Deep Neural Networks for Image Classification," *IEEE Trans. Neural Networks Learn. Syst.,* 2022. (**JCR:Q1, IF:10.2, Online**)

Z. Zhang, **L. Ning**, Z. Liu, et al., "Mining and Reasoning of Data Uncertainty-induced Imprecision in Deep Image Classification," *Inf. Fusion,* 2023. (**JCR:Q1, IF:10.2, Online**)

2022

Z. Liu, **L. Ning**, and Z. Zhang, "A New Progressive Multi-Source Domain Adaptation Network with Weighted Decision Fusion," *IEEE Trans. Neural Networks Learn. Syst.,* 2022, doi: 10.1109/TNNLS.2022.3179805. (**JCR:Q1, IF:10.2, Online**)

Research Publications (continued)

Z. Liu, Z. Zhang, Q. Pan, and **L. Ning**, "Unsupervised Change Detection From Heterogeneous Data Based on Image Translation," *IEEE Trans. Geosci. Remote Sens.*, vol. 60, pp. 1-13, 2022. **(JCR:Q1, IF:8.125, Online)**

2021   **L. Ning**, Z. Liu, and Z. Zhang, "Domain Adaptation Based Multi-Source Data Fusion for Pattern Classification," *IEEE CIE Int. Conf. Radar*, 2021. **(Online)**

Miscellaneous Experience

Awards and Achievements

2023   **Excellent Master's Thesis**, NPU, Xi'an, China.

       Outstanding Graduates, NPU, Xi'an, China.

2022   **The National Scholarship**, Ministry of Education, China.

       The First Prize Scholarship, NPU, Xi'an, China.

2019   **The Second Prize Scholarship**, NPU, Xi'an, China.

2018   **The First Prize Scholarship**, NPU, Xi'an, China.

       The Endress+Hauser Scholarship, NPU, Xi'an, China.

2017   **The Second Prize Scholarship**, NPU, Xi'an, China.

Certifications

2020   **The First Prize of the 15-th National University Students Intelligent Car Race**.

2019   **The First Prize of the 14-th National University Students Intelligent Car Race**.

2018   **The Second Prize of the 13-th National University Students Intelligent Car Race**. Awarded by Intelligent Car Race Organization Committee.

Skills and Research Interests

Coding   Pytorch, Matlab, C/C++, LaTeX, Git.

Languages   Mandarin Chinese (Native), English (CET6, IELTS 6.5).

Res. Interests   Data Mining, WebAgents, Recommender Systems, Adversarial Attack, Domain Adaptation, Pattern Recognition, XAI.