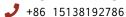
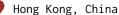
Ning Liang-bo









Education

Sep. 2023 – Present Ph.D., Computing,

The Hong Kong Polytechnic University (PolyU), Hong Kong, China

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

Sep. 2016 – Jun. 2020 B.E., *Automation*, GPA:83.47/100 or 3.34/4
Northwestern Polytechnical University (NPU), Xi'an, China

Research Publications

- 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:17.564, Online)
 - **L. Ning**, W. Fan, Q. Li, "Retrieval-Augmented Purifier for Robust LLM-Empowered Recommendation." *arXiv*, 2025. (**Preprint**)
 - **L. Ning**, Z. Liang, Z. Jiang, et al., "A Survey of WebAgents: Towards Next-Generation AI Agents for Web Automation with Large Foundation Models." *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**)
- 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)
- 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:14.255, 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:17.564, Online)
- 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:14.255, Online)
 - 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)

Research Publications (continued)

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

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

Outstanding Graduates, NPU, Xi'an, China.

The National Scholarship, Ministry of Education, China.

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

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

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

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

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

Certifications

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

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

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 Matlab, Python, C/C++, LaTeX, Git.

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

Res. Interests Transfer Learning, Adversarial Attack, Pattern Recognition, XAI.