

Ning Liang-bo

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📍 Hong Kong, China




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









- 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:17.564, 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: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**)
- 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: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)




- 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

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| 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. |