

# Ning Liang-bo

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📍 Hong Kong, China



## Education

- Jun. 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." *arXiv*, 2025. (Online)
- 2025    📖 J. Huang, S. Wang, **L. Ning**, et al., "Towards Next-Generation Recommender Systems: A Benchmark for Personalized Recommendation Assistant with LLMs." *arXiv*, 2025. (Online)
- 2024    📖 **L. Ning,** Z. Dai, W. Fan, et al., "Joint Universal Adversarial Perturbations with Interpretations," *arXiv*, 2024. (Online)
- 2024    📖 H. Qu, **L. Ning**, R. An, W. Fan, et al., "A Survey of Mamba," *arXiv*, 2024. (Online)
- 2024    📖 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)
- 2024    📖 **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)
- 2024    📖 **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)
- 2023    📖 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)
- 2022    📖 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.
- 2023    📖 **Outstanding Graduates**, NPU, Xi'an, China.
- 2022    📖 **The National Scholarship**, Ministry of Education, China.

## Miscellaneous Experience (continued)

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- 2019  **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.