# Zhang Lucong, Master.

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13734222453 (same as Wechat) 1999.04.05
Datong, Shanxi Lanzhou, Gansu

## Research interests

Current Research

» ***Joint Prediction Transfer Learning***

A transfer learning method that integrates point estimation and interval estimation, designed to overcome the limitations of point prediction. It provides feasibility analysis for broader application domains while enhancing both prediction accuracy and decision reliability.

» ***eXplainable Artificial Intelligence (XAI)***

To enhance the credibility of machine learning predictions from an interpretability perspective, current research primarily focuses on extracting interpretable features by analyzing the prediction process and examining how these features influence the final prediction outcomes.

» ***Research interests***

*eXplainable Artificial Intelligence, Transfer learning, Uncertainty, …*

Future Interests — *Multi-scenario Applications, Causal Mechanism, Agent, …*

Research pursuits — ***Pursue Meaningful Research, Tackle Real-World Challenges!***

## Education

2022 – now — **Master's degree of Electronic Information** in Northwest Normal University (*NWNU*). Supervisors: *Li Wang*. Major: Software Engineering

2016 – 2019 — **Software Technology Major** in Jiangsu College of Finance&Accounting.

## Work and internships

2024 – 2025 — **Intern (student))** Lanzhou Yisheng Education.
**Responsibility:** Advanced Mathematics

2023 – 2024 — **Intern (student).** Dalian Guyin TECHNOLOGY DEVELOPMENT CO. LTD.
**Responsibility:** Systems and software development.

2019 – 2020 — **Development engineer.** Dalian Xinqiao TECHNOLOGY DEVELOPMENT CO. LTD.
**Responsibility:** Systems and software development(Java).

## Research Publications

### Journal Articles

1. *L. Wang*, **Lucong Zhang***, L. Feng, T. Chen, and H. Qin, "A novel deep transfer learning method based on explainable feature extraction and domain reconstruction," *Neural Networks*, 2025. DOI: https://doi.org/10.1016/j.neunet.2025.107401.

2. *L. Wang*, **Lucong Zhang***, H. Wu, T. Zhang, and H. Qin, "A multi-source domain regression transfer learning framework for predicting student academic performance considering balanced similarity," *Engineering Applications of Artificial Intelligence (Revised)*, 2025.

### Conference Proceedings

1. *L. Wang*, H. Wu, **Lucong Zhang**, and H. Cheng, "A learning resource recommendation algorithm incorporating user information and rating differences," in *2023 4th International Seminar on Artificial Intelligence, Networking and Information Technology (AINIT)*, 2023, pp. 15–19. DOI: https://doi.org/10.1109/AINIT59027.2023.10212571.

2. *L. Wang*, L. Feng, H. Wu, **Lucong Zhang**, and T. Chen, "Learning sequence recommendation algorithm based on learner interest and neighborhood information," in *2024 5th International Conference on Computer Science and Management Technology (ICCSMT)*, Association for Computing Machinery, 2024, pp. 513–519. DOI: https://doi.org/10.1145/3708036.3708124.

## Skills

Languages — Strong reading, writing and speaking competencies for English, Mandarin Chinese.

Coding — Python (*Deep learning*, *Transfer learning*, …), Java (*software engineering*, *system engineering*, …), Matlab, LaTeX, Markdown, …

## Projects and Awards

### Awards

2024 — **Huawei Cup**, Third prize of "Huawei Cup" of the 21st China Postgraduate Mathematical Modeling Competition, *NWNU*.

### Projects

2024-now — **32360434**. National Natural Science Foundation of China (*NSFC*).
**Character:** Technical core member, Fundings: RMB 330,000.

2025-now — **12461094**. National Natural Science Foundation of China (*NSFC*).
**Character:** Technical core member, Fundings: RMB 270,000.

**H7202410 48**. Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences (*CAS*).
**Character:** Technical core member, Fundings: RMB 70,000.