

JIATONG LI

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EDUCATION

University of Science and Technology of China (USTC), China 09/2022 – 06/2025 (expected)

M.Sc., Data Science, Cumulative GPA: 3.17/4.3 (81.22/100)

Supervisor: Prof. Qi Liu

National Scholarship for Graduate Students (3/286)

University of Science and Technology of China (USTC), China 09/2018 – 06/2022

B.S., Data Science, Cumulative GPA: 3.90/4.3 (90.71/100)

Coursework: Probability and Mathematical Statistics (99), Discrete Mathematics (88), Multivariate Analysis (93), Introduction to Machine Learning (91), Data Structures (93), An Introduction to Database System (90)

PAPERS & PUBLICATIONS

- **Jiatong Li**, Renjun Hu, Kunzhe Huang, et al. (2024). PertEval: Unveiling Real Knowledge Capacity of LLMs with Knowledge-Invariant Perturbations. In arxiv. (preprint, **submitted to NeurIPS 2024**)
- **Jiatong Li**⁺, Rui Li⁺, Qi Liu (2023). Beyond Static Datasets: A Deep Interaction Approach to LLM Evaluation. In arxiv. (preprint)
- **Jiatong Li**, Qi Liu*, Fei Wang, Jiayu Liu, Zhenya Huang, Fangzhou Yao, Linbo Zhu, Yu Su (2024). Towards the Identifiability and Explainability for Personalized Learner Modeling: An Inductive Paradigm. In *Proceedings of the ACM Web Conference 2024 (WWW '24)*
- **Jiatong Li**, Fei Wang, Qi Liu, Mengxiao Zhu, Wei Huang, Zhenya Huang*, Enhong Chen, Yu Su, Shijin Wang (2022). HierCDF: A Bayesian Network-based Hierarchical Cognitive Diagnosis Framework. In *Proceedings of the 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD '22)*.
- Fangzhou Yao, Qi Liu, Linan Yue, Weibo Gao, **Jiatong Li**, Xin Li, Yuanjing He (2024). AdaD: An Adaptive Response Denoising Framework for Robust Student Modeling. In *Proceedings of the 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD '24)*. Accepted.
- Junzhe Jiang, Shang Qu, Mingyue Cheng, Qi Liu, Zhiding Liu, Hao Zhang, Rujiao Zhang, Kai Zhang, Rui Li, **Jiatong Li**, Min Gao (2024). Language Modeling for Content-enriched Recommendation. In **DASFAA 2024**. Accepted.

RESEARCH EXPERIENCES

Reliable Large Language Model Evaluation 2023 – present

Advisor: Prof. Qi Liu, USTC; Dr. Renjun Hu, Alibaba Cloud

- Conducted research on the reliability and trustworthiness of large language model evaluation.
- Proposed a perfect information game-based evaluation methodology for assessing LLMs' problem-solving ability in dynamic scenarios.
- Proposed a novel knowledge perturbation-based evaluation toolkit (PertEval) to unveil LLMs' real knowledge capacity in existing close-ended LLM evaluation benchmarks. The paper is submitted to **NeurIPS 2024 Dataset & Benchmark Track**.
- **Contribution:** proposing idea; conducting experiments, writing papers.

Personalized Learner Modeling in Educational Data Mining 2022 – 2024

Advisor: Prof. Qi Liu, USTC

- Conducted research on cognitive diagnosis-based personalized learner modeling, which aims to efficiently utilize learner behavioral data to mine accurate and explainable learners' cognitive states.
- Proposed a Bayesian network-based hierarchical cognitive diagnosis framework (HierCDF) to model knowledge concept dependency relationships in learner modeling process (**KDD' 22**).

- Proposed an inductive learner modeling framework (ID-CDF) to ensure the identifiability and enhance the explainability of learner modeling, which opens new research directions in this area (**WWW' 24**).
- **Contribution:** proposing idea; conducting experiments, writing papers.

PROFESSIONAL EXPERIENCES

Alibaba Cloud, Hangzhou, China 01/2024 – present

Large Language Model Research Intern, Platform of Artificial Intelligence

- Explore new methodology for better evaluation of LLMs' knowledge acquisition from various aspects.

iFLYTEK, Hefei, China 01/2022 – 06/2022

Big Data Research & Development Engineer Intern

- Explore interpretable personalized learner modeling in intelligent education.

CONFERENCE PRESENTATIONS

- “A Bayesian Hierarchical Item Response Theory Model for Estimating Attributes of Regular Exams and Students' Knowledge Levels” (Oral Presentation). *The International Meeting of the Psychometric Society (IMPS 2023)*. University of Maryland, College Park, USA. July 2023.

OTHER EXPERIENCES

University of Science and Technology of China, Hefei, China 02/2022 – 07/2022

Teaching Assistant (TA) in the undergraduate course “Analysis and Practice of the Data”.

Alibaba, Shanghai, China 07/2021 – 09/2021

Java Development Intern

- Responsible for the development of the Java backend related to the Alibaba ticketing system.
- Conduct data analysis on users' behavioral data on the SQL database of the Alibaba ticketing system.
- Implemented the HSF interface of the “Nearby Special” function of the Alibaba ticketing system.

SELECTED HONORS & AWARDS

National Scholarship for Graduate Students (**3/286**), China 10/2023

Outstanding Student Scholarship, USTC 2018 – 2021

National 1st Prize in the Contemporary Undergraduate Mathematical Contest in Modeling (**Top 1%**), China Society for Industrial and Applied Mathematics 09/2019

SKILLS

- Deep Learning Framework: PyTorch, Tensorflow
- Programming Language: Python, Java, C, C++, SQL, \LaTeX
- Languages: English - Fluent (**TOEFL: 111 - R: 30, L: 28, S: 25, W: 28**)