

YANZHE HU

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EDUCATION

Huazhong University of Science and Technology

Undergraduate Student of Cyberspace Security | Comprehensive Rank 6/93

Sep 2023 - Present

PUBLICATION

Yanzhe Hu, Yijie Jin, Pengfei Liu, Kai Yu, Zhijie Deng, "LightningRL: Breaking the Accuracy-Parallelism Trade-off of Block-wise dLLMs via Reinforcement Learning", *International Conference on Machine Learning (ICML)*, 2026.

Yanzhe Hu*, Shenao Wang*, Tianyuan Nie, Yanjie Zhao, Haoyu Wang, "Understanding Large Language Model Supply Chain: Structure, Domain, and Vulnerabilities", *Asia-Pacific Symposium on Internetware (Internetware)*, 2026.

Yi Yang, Zhihong Liu, Siqi Kou, Yiyang Chen, **Yanzhe Hu**, ..., Zhijie Deng, "World-Language-Action Model for Unified World Modeling, Language Reasoning, and Action Synthesis", *Submitted to Conference on Robot Learning (CoRL)*, 2026.

Peihong Li, Cheng Li, Yuchen Gu, **Yanzhe Hu**, Chao Zhang, "ProgSCA: Software Composition Analysis via Program-Level Modeling", *International Symposium on Software Testing and Analysis (ISSTA)*, 2026.

RESEARCH EXPERIENCE

Diffusion Language Model Reinforcement Learning

Jun 2025 - Present

School of Computer Science, **Shanghai Jiao Tong University** | Advisor: Prof. Zhijie Deng

Shanghai, China

- Proposed LightningRL, a reinforcement learning framework for improving the inference efficiency of diffusion language models.
- First-author paper accepted to ICML 2026.

Software Composition Analysis and Binary Security

Mar 2025 – Sep 2025

NISL Institute for Cyberspace Security, **Tsinghua University** | Advisor: Prof. Chao Zhang

Remote

- Worked on program-level software composition analysis and LLM-assisted structure recovery from stripped binaries under the same research internship.
- Developed ProgSCA, an end-to-end prototype for program-level software composition analysis, and designed a function-granularity cross-modal alignment framework for matching source code with decompiled code.
- Contributed to one paper accepted to ISSTA 2026 and another paper submitted to ASE 2026.

LLM Software Supply Chain

Sep 2024 – May 2025

Huazhong University of Science and Technology | Advisor: Prof. Haoyu Wang

Wuhan, China

- Conducted a large-scale empirical study on security risks in the LLM software supply chain, focusing on dependency vulnerabilities and package-level threats.
- First-author paper accepted to Internetware 2026.

EXTRA-CURRICULAR ACTIVITIES

Mathematical Contest in Modeling (MCM)

Jan 2025

Project Topic: A Zero-Inflated Beta Regression Model for Predicting Olympic Medal Counts

- Developed a zero-inflated beta regression model to predict Olympic medal shares and 2028 medal counts. Applied FEPOLS regression, EWM-TOPSIS, and K-means clustering to analyze the Great Coach Effect and sport-specific medal advantages.
- Awarded Meritorious Winner in MCM 2025, Problem C.

Cryptographic API Misuse Detection with Large Language Models

Aug 2025 - Nov 2025

Project Topic: LLM-Based Static Analysis for Detecting Cryptographic API Misuse

- Developed an LLM-based framework for detecting cryptographic API misuse in source code.
- Awarded Second Prize in the National Cryptography Competition.

Hustview: Multimodal LLM Agent for Mock Interview Evaluation

Mar 2025 - Jul 2025

Project Topic: An Intelligent Mock Interview Agent Based on Multimodal Large Language Models

- Developed a multimodal interview evaluation agent integrating text, image, and speech-based inputs. Implemented structured feedback generation to improve the interpretability and usefulness of interview evaluations.
- Awarded Third Prize in the China Software Cup.

AWARDS AND HONORS

CNVD High-Risk Vulnerability Disclosure: CNVD-2026-11218 (2026)

National Second Prize, National College Student Cryptography Technology Competition (2025)

National Second Prize, National College Student Software Innovation Competition (2026)

National Third Prize, China University Intelligent Robot Creativity Competition (2026)

National Third Prize, China Software Cup Student Software Design Competition (2025)

Meritorious Winner, Mathematical Contest in Modeling (MCM) (2025)

Provincial First Prize, National College Student Computer Design Competition (2026)

Provincial First Prize (Group A), 16th National College Student Mathematics Competition (2024)

Outstanding Student Cadre Scholarship, Huazhong University of Science and Technology (2023-2024)

Arts and Sports Scholarship, Huazhong University of Science and Technology (2023-2024)

SKILLS

Languages: English (CET-6: 515), Chinese (Native)

Programming: Python / PyTorch / C++ / C / Java

Hobbies: Fitness / Basketball / Travel / Photography