

Bingxiang He

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09, 2020 - present

EDUCATION

Tsinghua University, Beijing

Undergraduate Dept. of Computer Science, graduate on 06, 2024

Main courses and academic performance

GPA: 3.97/4.0, Rank: 4/181

A+ : English for Academic Purposes (A): Spoken Communication, Probability and Statistics, Physics for Scientists and Engineers B(2), Artificial Neural Networks

A : Fundamentals of Computer Science, Fundamentals of Programming, Programing and Training, Foundation of Object-Oriented Programming, Assembly Language Programming, Calculus A(1), Calculus A(2), Linear Algebra, Advanced Topics in Linear Algebra, Discrete Mathematics(1), Physics for Scientists and Engineers B(1), Introduction to Artificial Intelligence, Software Engineering, Digital Logic Circuit, Digital Logic Experimentation, Fundamentals of Computer Graphics, Introduction to Modern Cryptography, Principles of Signal Processing, Principles and Practice of Compiler Construction, Introduction to High Performance Computing, Operating Systems, Database Special Topic Training, Cybersecurity Fundamentals

A- : Introduction to Complex Analysis, **Data Structures**, **Numerical Analysis**, **Computer Network Security Technology**, **Computer Architecture**

Honors & Awards

1. Second Prize in Freshmen Scholarship, Tsinghua University	09, 2020
2. Second Prize in National Undergraduate Physics Competition, Beijing Physics Society	04, 2021
3. Comprehensive Excellence Award for the 2020-2021 school year, Dept. of CST	10, 2021
4. Third Prize in THU Challenge Cup Academic Competition, Tsinghua University	04, 2022
5. December-9th Scholarship, highest scholarship in Dept. of CST	01, 2023
6. Comprehensive Excellence Award for the 2022-2023 school year, Dept. of CST	10, 2023

- 1. OpenBackdoor: An open-source toolkit for textual backdoor attack and defense 04, 2022 09, 2022
 - Directed by Associate Professor Zhiyuan Liu, THUNLP
 - Summarize three practical scenarios of attack methods based on their accessibility and goals
 - Conclude novel metrics for three evaluation dimensions and recommend scenario-specified evaluation methodologies
 - Develop an open-source toolkit OpenBackdoor and conduct extensive benchmark experiments
 - Propose CUBE, a simple yet strong baseline method targeting purifying poisoned datasets
 - Second author. Paper submitted to NeurIPS 2022 D&B
- 2. Research and development based on semantic understanding with Chinese characteristics 07, 2023 Now
 - Language: Python
 - From: MIGU
 - Responsibilities: Core Member
 - Solution: Using CPM-C as the base model, we extensively collect data including the MFAs' speeches, etc., and carry out post-training, supervised fine-tuning, and RLHF three-stage training.

C PUBLICATIONS

* indicates equal contribution.

- A Unified Evaluation of Textual Backdoor Learning: Frameworks and Benchmarks [paper] Ganqu Cui*, Lifan Yuan*, Bingxiang He, Yangyi Chen, Zhiyuan Liu, Maosong Sun. *NeurIPS 2022 Datasets and Benchmarks Track* (Spotlights)
- Beat LLMs at Their Own Game: Zero-Shot LLM-Generated Text Detection via Querying ChatGPT [paper]

Biru Zhu, Lifan Yuan, Ganqu Cui, Yangyi Chen, Chong Fu, **Bingxiang He**, Yangdong Deng, Zhiyuan Liu, Maosong Sun, Ming Gu

EMNLP 2023 Main

- ULTRAFEEDBACK: Boosting Language Models with Scaled AI Feedback [paper] Ganqu Cui*, Lifan Yuan*, Ning Ding, Guanming Yao, **Bingxiang He**, Wei Zhu, Yuan Ni, Guotong Xie, Ruobing Xie, Yankai Lin, Zhiyuan Liu, Maosong Sun *ICML 2024 In Submission*
- Tell Me More! Towards Implicit User Intention Understanding of Language Model Driven Agents [paper]

Cheng Qian*, **Bingxiang He***, Zhong Zhuang, Jia Deng, Yujia Qin, Xin Cong, Zhong Zhang, Jie Zhou, Yankai Lin, Zhiyuan Liu, Maosong Sun *ACL 2024 In Submission*

F IT Skills

- Computer Language: C/C++ == Python > JavaScript == TypeScript > SQL
- Platform: Linux, Windows
- Tool: Git, SSH, Make, Tmux, Markdown, LaTeX
- Full-stack development: React, Django, Nginx, MySQL
- CET6: 571