Bo Li

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EDUCATION

Software School, Fudan University Sep 2021 – July 2025 (expected)

B.Eng in Software Engineering

Overall Ranking: *11/105*; **GPA:** *3.73/4.0 (cumulative) 92/100*

Core Courses: *Introduction to Computer Systems* (A, 4/4) | *Linear Algebra* (A, 4/4) | *Object-Oriented Programming* (A, 4/4) | *Computer Organization and Architecture* (A, 4/4) | *College Physics* (A, 4/4) | *Fundamentals of Multimedia* (A, 4/4) | *Compilers* (A, 4/4) | *Advanced Web Technology* (A, 4/4) | *Software Practice* (A, 4/4) | *Probability Theory and Mathematical Statistics* (A-, 3.7/4) | *Machine Learning* (A-, 3.7/4) | *Advanced Mathematics* (A-, 3.7/4) | *Software Engineering*(A-, 3.7/4) | *Distributed System* (A-, 3.7/4) |

PUBLICATIONS

- *Anyprefer: An Automatic Framework for Preference Data Synthesis*
  Yiyang Zhou*, Zhaoyang Wang*, Tianle Wang*, Shangyu Xing, Peng Xia, **Bo Li**, Kaiyuan Zheng, Zijian Zhang, Zhaorun Chen, Wenhao Zheng, Xuchao Zhang, Chetan Bansal, Weitong Zhang, Ying Wei, Mohit Bansal, Huaxiu Yao
  Neurips Safe Generative AI Workshop 2024, ICLR 2025

- *Incremental Learning for AI-Generated Image Detection*
  Bo Li*, Xue Song*, Jingjing Chen
  TIP (IEEE Transactions on Image Processing) **Under Review**
  https://drive.google.com/file/d/1j22LzlgG6xh3nD5VkimiAUK17f7CMo-R/view?usp=sharing

RESEARCH EXPERIENCES

Medical LLM & AI alignment | University of North Carolina at Chapel Hill | *Research Assistant* July 2024 – Present
Advisor: Huaxiu Yao, Assistant Professor, Department of Computer Science

- Proposed Anyprefer, an automatic framework designed to synthesize high-quality preference data for the target model. This project introduces external tools to reduce bias and enhances collaboration between models through optimized prompting mechanisms.
- Responsible for medical image analysis in the Anyprefer project, utilizing LLAVA-Med v1.5 as the target model, and collaborating with several powerful medical models (such as MiniGPT-Med, MedVInT, and CheXagent) to conduct experiments on medical report generation and medical visual question answering tasks.
- Implemented feedback mechanisms and optimized prompts, achieving a **30.05%** improvement on VQA-RAD, IU-Xray, and SLAKE datasets, addressing hallucination issues in medical models.

Multimodel Forgery Detection | Fudan University | *Research Assistant* Jan 2022 – Present
Advisor: Jingjing chen, Associate Professor, the Fudan Vision and Learning Lab (FVL)

- Identified the challenges in AI-generated image detection tasks, where the continuous emergence of new generation methods results in insufficient adaptability of detection models, and proposed a solution to overcome this limitation.
- Developed a novel dataset incorporating state-of-the-art generative models and tools, covering diverse and complex real-world scenes, and proposed a task to refine detectors with few new samples for improved adaptability.
- Introduced an incremental learning detection framework, demonstrating a **8.92%** improvement in detection accuracy through extensive experiments, particularly in low-sample scenarios.

COURSE PROJECTS & COMPETITION

National Student Computer System Capability Challenge 2023

- Played an important role in leading the team to secure **the Excellence Award** in the China Finals, demonstrating strong leadership and technical expertise throughout the competition.
- Designed a nine-stage out-of-order pipelined CPU based on the LoongArch instruction set, successfully passed the instruction set tests, and achieved a clock frequency of 75MHz.

(In Chinese) https://drive.google.com/file/d/1ZD6eJZkdsbYYo1EHeMBPkECXxfo2GWYw/view?usp=sharing

Online Shopping System *Software Engineering 3.7/4.0* 2023

- As the **team leader**, led the full development of an online shopping website using Spring Boot and Vue.js, overseeing project planning, task distribution, and team collaboration to ensure timely delivery and high-quality results.
- In the final presentation not only an outstanding project for the course, but also received **high appreciation** from experts.

Retail Business Data Analysis: Algorithm Comparison and Sales Trend Predictions *Machine Learning 3.7/4.0* 2023

- Utilized Tableau and machine learning techniques to conduct in-depth analysis of retail sales data, uncovering key

trends and diverse characteristics to support data-driven decision-making and sales strategy optimization.
(In Chinese) https://drive.google.com/file/d/1Mv5IoxdapG7b_ntmvS0mfLffFPm1j77M/view?usp=sharing

AWARD

- China National Scholarship (The **highest** honorable national scholarship to Chinese college students). (0.2%) 2022
- Fudan Scholarship University 2023

ACADEMIC SERVICE

- Assistant for Computer Architecture (**Honors Course**), responsible for designing course assignments and guiding students in their learning experience and academic performance. 2023
- Responsible for the guidance of academic research directions in the research group, sharing cutting-edge scientific research information like state-of-the-art (SOTA) models and advancements in the field, organizing academic activities such as seminars, workshops, and invited talks by experts to foster collaborative learning and innovation. 2022～2023

SKILLS

- Computer Front-end Technology(HTML+CSS+JavaScript, Vue.js Framework).
- Computer Backend Technology (Java Framework).
- Computer Database (MySQL) programming Technology
- FPGA Development Technology(System Verilog)
- **Programming Languages:** Python/C/Java/C++/JavaScript/System Verilog.