

Jun Yang

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Research Interest

Software Engineering Program Analysis, Test Generation, LLMs for Code, Proof Generation

Education

The University of Chicago

Chicago, Illinois, US

Ph.D. in COMPUTER SCIENCE, ADVISORS: KEXIN PEI AND SHAN LU

Sep. 2024 - May. 2029

University of Illinois Urbana-Champaign

Urbana, Illinois, US

M.S. in COMPUTER SCIENCE (THESIS-BASED), GPA 3.91/4.0, ADVISOR: LINGMING ZHANG

Aug. 2022 - May. 2024

- **Teaching Assistant:** Software Engineering (I), Programming Language and Compilers
- **Selected Courses:** Software Quality Assurance with Generative AI, Advanced Topics in Natural Language Processing, Advanced Topics in Software Engineering, Programming Languages and Compilers, Computer Security (II), Machine Learning for Compilers and Architecture

Huazhong University of Science and Technology

Wuhan, Hubei, China

B.S. in ELECTRONIC INFORMATION ENGINEERING, GPA: 3.87/4.0, RANKING 2/30 (ELITE CLASS), ADVISOR: MING WEN

Sep. 2018 - Jun. 2022

- **Selected Courses:** Operating System, Computer Network, Computer Architecture, Stochastic Processes, Fundamentals of Information Theory
- **Awards:** First Prize of National College Students' Mathematics, **Outstanding Undergraduates in Term of Academic Performance, top 1%**, National Encouragement Scholarship

Publications

ExVerus: Verus Proof Repair via Counterexamples Reasoning

Jun Yang, Yuechun Sun, Yi Wu, Rodrigo Caridad, Yongwei Yuan, Shan Lu, Kexin Pei. *Under Submission*

Synthesizing Performance Constraints for Evaluating Code Efficiency

Jun Yang, Cheng-Chi Wang, Shan Lu, Bogdan Alexandru Stoica, Kexin Pei. *Neurips 2025*

RepoQA: Evaluating Long Context Code Understanding

Jiawei Liu, Jia Le Tian, Vijay Daita, Yuxiang Wei, Yifeng Ding, Yuhan Katherine Wang, Jun Yang, Lingming Zhang. *LCFM@ICML 2024*

Benchmarking Automated Program Repair: A Study on Real-world and Artificial Bugs

Yicheng Ouyang*, Jun Yang*, Lingming Zhang. *ISSTA 2024*

A Large-Scale Empirical Review of Patch Correctness Checking Approaches

Jun Yang*, Yuehan Wang*, Yiling Lou, Ming Wen, Lingming Zhang. *FSE 2023*

When Automated Program Repair Meets Regression Testing – An Extensive Study on 2 Million Patches

Yiling Lou, Jun Yang, Samuel Benton, Dan Hao, Lin Tan, Zhenpeng Chen, Lu Zhang, Lingming Zhang. *TOSEM 2023*

Why Do Developers Remove Lambda Expressions in Java?

Mingwei Zheng, Jun Yang, Ming Wen, Hengcheng Zhu, Yepang Liu, Hai Jin. *ASE 2021*

Talks

Li Lab @ Carnegie Mellon University: Synthesizing Performance Constraints for Evaluating Code Efficiency, Jul. 2025

Academic Services

S&P'26 (co-reviewer), ICML'26 (reviewer), ICLR'26 (reviewer), ICSE'26 (co-reviewer), CCS'25 (co-reviewer), TSE'25 (reviewer), ICSE'25 Artifact Evaluation (PC), ASE'24 (co-reviewer), ICSE'23 SEIP (co-reviewer), UIUC SE Seminar (organizer), UIUC iSE Reading Group (organizer)

Teaching Experience

UIUC CS427: Software Engineering I, Autumn 2022

UIUC CS421: Progrmg Languages & Compilers, Spring 2023

UIUC CS427: Software Engineering I, Fall 2023

UIUC CS527: Topics in Software Engineering, Spring 2024

UChicago CMSC220: Software Construction, Spring 2025

Skills

Programming Languages Java, Python, C, Matlab

Framework and Tools LLVM, AFL++, Klee, ASM, Soot, JavaParser, Docker, Maven, Gradle, Ant, PiTest, EvoSuite, Randoop, Defects4J, Git