

# Jun Yang

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## Research Interest

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

## Education

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### The University of Chicago

PH.D. IN COMPUTER SCIENCE, ADVISORS: [KEXIN PEI](#) AND [SHAN LU](#)

*Chicago, Illinois, US*

*Sep. 2024 - May. 2029*

### University of Illinois Urbana-Champaign

M.S. IN COMPUTER SCIENCE (THESIS-BASED), GPA 3.91/4.0, ADVISOR: [LINGMING ZHANG](#)

*Urbana, Illinois, US*

*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

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

*Wuhan, Hubei, China*

*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

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### ExVerus: Verus Proof Repair via Counterexamples Reasoning

Jun Yang, Yuechun Sun, Yi Wu, Rodrigo Caridad, Yongwei Yuan, Jianan Yao, Shan Lu, Kexin Pei. *ICML 2026*

### 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

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

## Academic Services

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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

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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

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**Programming Languages** Java, Python, C, Matlab

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