

# Zhiyu Fan

Ph.D Candidate @ National University of Singapore

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## Education

- National University of Singapore** Singapore  
**Ph.D Candidate., School of Computing** 2019.08 – present  
Advisor: *Abhik Roychoudhury*
- Southern University of Science and Technology** ShenZhen, China  
**B.E., Computer Science and Engineering** 2015.09 – 2019.07  
Advisor: *Shin Hwei Tan*

## Publications(\* Co-first author)

- AutoCodeRover: Autonomous Program Improvement** arXiv  
Yuntong Zhang, Haifeng Ruan, **Zhiyu Fan**, Abhik Roychoudhury  
**arXiv Preprint** 2024
- ITS: Experience of Linking Software Engineering and Programming Teaching** arXiv  
**Zhiyu Fan**, Yannic Noller, Ashish Dandekar, Abhik Roychoudhury  
**arXiv Preprint** 2023
- Concept-based Automated Grading of CS-1 Programming Assignments** ISSTA'2023  
**Zhiyu Fan**, Shin Hwei Tan, Abhik Roychoudhury  
**International Symposium on Software Testing and Analysis (ISSTA), 2023**
- Automated Repair of Programs from Large Language Models** ICSE'2023  
**Zhiyu Fan**, Xiang Gao, Martin Mirchev, Abhik Roychoudhury, Shin Hwei Tan  
**International Conference on Software Engineering (ICSE), 2023**
- Verifix: Verified Repair of Programming Assignments** TOSEM'2022  
Umair Z. Ahmed\*, **Zhiyu Fan\***, Jooyong Yi, Omar I. Al-Bataineh, Abhik Roychoudhury  
**Transactions on Software Engineering and Methodology (TOSEM), 2022**
- A Systematic Evaluation of Problematic Tests Generated by EvoSuite.** ICSE'2019  
**Zhiyu Fan**  
**ACM Student Research Competition @ ICSE, 2019**

## Services

- PC Member for APR Workshop @ ICSE 2024**
- Reviewer for SIGCSE 2024**
- Reviewer for TSE 2023**

## Awards and Honors

- NUS SoC Research Incentive Award** 2023 - 2024
- NUS SoC Research Achievement Award** 2023.01
- NUS Research Scholarship** 2019.08 – Present
- Bronze Medal in ACM SRC@ICSE 2019** 2019.06
- Outstanding Graduate Thesis Award of SUSTech** 2019.06

- **Outstanding Graduate of SUSTech** 2019.05
- **ACM SIGSOFT CAPS Grants** 2019.04
- **ACM SIGSOFT SRC Travel Award** 2019.03
- **First Prize in National Student Contest of Software Testing** 2018.11

## Teaching experience

- **CS3213: Foundations of Software Engineering** NUS  
Head Teaching Assistant 2023.01 – 2023.04
- **CS3213: Foundations of Software Engineering** NUS  
Teaching Assistant 2022.01 – 2022.04
- **CS4211: Formal Method for Software Engineering** NUS  
Teaching Assistant 2020.08 – 2020.11
- **CS304: Software Engineering** SUSTech  
Teaching Assistant 2019.03 – 2019.06
- **CS303A: Introduction to Artificial Intelligence** SUSTech  
Teaching Assistant 2019.03 – 2019.06
- **CS102A: Java How to program** SUSTech  
Teaching Assistant 2016.09 – 2017.01