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, Shin Hwei Tan*

- **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)

- **ITS: Experience of Linking Software Engineering and Programming Teaching** — arXiv'preprint
  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
  IEEE/ACM 45th 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

- **Reviewer for SIGCSE 2024**

- **Reviewer for TSE 2023**

Work Experience

- **Southern University of Science and Technology** — Shenzhen, China
  Research Assistant — 2019.06 – 2019.08

Awards and Honors

- **NUS Research Achievement Award** — 2023.01

- **NUS Research Schloarship** — 2019.08 – Present

- **Bronze Medal in ACM Student Research Competition** *ICSE 2019, ACM* — 2019.06

- **Outstanding Graduate Thesis Award of SUSTech**   2019.06
- **Outstanding Graduate of SUSTech**   2019.05
- **ACM SIGSOFT CAPS Grants**   *ICSE 2019*   2019.04
- **ACM SIGSOFT SRC Travel Award**   *ICSE 2019*   2019.03
- **National Student Contest of Software Testing**   *First Prize*   2018.11

Teaching experience

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