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)

- **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

Work Experience

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

Awards and Honors

- **Research Achievement Award**   *NUS* — 2023.01

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

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

- **Outstanding Graduate Thesis Award of SUSTech**   *Top 10%* — 2019.06

- **Outstanding Graduate of SUSTech**   *Top 10%* — 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

Language(s)

- Chinese(native), English(professional)