Ruijie Meng

Ph.D. candidate, National University of Singapore (NUS)

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RESEARCH INTEREST

- **Software Testing and Security**
- **Reactive System Fuzzing**

EDUCATION

Ph.D. candidate, National University of Singapore (NUS), *Singapore*   **Aug 2020 - Present**
- **Major:** Computer Science, School of Computing
- **Advisor:** Abhik Roychoudhury
- **GPA:** 4.83/5

M.Eng., University of Chinese Academy of Sciences (UCAS), *Beijing, China*   **Sep 2017 - Jun 2020**
- State Key Laboratory of Computer Science, Institute of Software Chinese Academy of Sciences
- **Advisor:** Yan Cai
- **GPA:** 3.81/4 (Rank: 1/102)

B.Eng., Tianjin University (TJU), *Tianjin, China*   **Sep 2013 - Jun 2017**
- **Major:** Software Engineering, School of Computer Software
- **GPA:** 3.79/4 (Rank: 3/113)

B.Ec., Nankai University (NKU), *Tianjin, China*   **Sep 2014 - Jun 2017**
- **Minor:** Finance, School of Finance

SELECTED AWARDS

- 2023 - 2024   NUSGS Research Incentive Award
- 2023   NUS SoC Research Achievement Award
- 2020 - 2024   NUS President's Graduate Fellowship
- 2020   Outstanding Graduate of Beijing (*Top 2%*)
- 2020   Outstanding Graduate of UCAS (*Top 2%*)
- 2020   President's Fellowship of UCAS (*Top 2%*)
- 2019   National Scholarship, *China* (*Top 2%*)
- 2019   ACM SIGAI Scholarship
- 2019   ACM SIGSOFT CAPS fund
- 2019, 2018   The First Prize Scholarship of UCAS (*Top 10%*)
- 2017   Outstanding Graduate of TJU (*Top 10%*)

PUBLICATIONS

- **Large Language Model guided Protocol Fuzzing**   **NDSS'24**
  Ruijie Meng, Martin Mirchev, Marcel Böhme, Abhik Roychoudhury
  Network and Distributed System Security Symposium (NDSS), 2024.

- **Greybox Fuzzing of Distributed Systems**   **CCS'23**
  Ruijie Meng, George Pirlea, Abhik Roychoudhury, Ilya Sergey
  ACM Conference on Computer and Communications Security, 2023.

- **Linear-time Temporal Logic guided Greybox Fuzzing**   **ICSE'22**
  Ruijie Meng, Zhen Dong, Jialin Li, Ivan Beschastnikh, Abhik Roychoudhury
  IEEE/ACM International Conference on Software Engineering, 2022.

- **Low-Overhead Deadlock Prediction**   **ICSE'20**
  Yan Cai, *Ruijie Meng*, Jens Palsberg
  International Conference on Software Engineering, 2020.

- **ConVul: An Effective Tool for Detecting Concurrency Vulnerabilities**   **ASE'19**
  Ruijie Meng, Biyun Zhu, Hao Yun, Haicheng Li, Yan Cai, Zijiang Yang
  International Conference on Automated Software Engineering Tool, 2019.

- **Detecting Concurrency Memory Corruption Vulnerabilities**   **ESEC/FSE'19**
  Yan Cai, Biyun Zhu, *Ruijie Meng*, Hao Yun, Liang He, Purui Su, Bin Liang
  European Software Engineering Conference/Symposium on the Foundations of Software Engineering, 2019.

- **ConRS: A Requests Scheduling Framework for Increasing Concurrency Degree of**   **COMPSAC'19**
  Server Programs
  Biyun Zhu, *Ruijie Meng*, Zhenyu Zhang, W.K.Chan
  International Computer Software and Applications Conference, 2019.

TEACHING

- **CS5219 Automated Software Validation**   National University of Singapore
  Tutor   Aug 2023 – Dec 2023
- **CS2040 Data Structures and Algorithms**   National University of Singapore
  Teaching assistant   Jan 2023 – Apr 2023
- **CS5219 Automated Software Validation**   National University of Singapore
  Tutor   Aug 2022 – Dec 2022
- **CS2040 Data Structures and Algorithms**   National University of Singapore
  Teaching assistant   Jan 2022 – Apr 2022
- **CS2040S Data Structures and Algorithms**   National University of Singapore
  Teaching assistant   Aug 2021 – Dec 2021

ACADEMIC SERVICES

- Reviewer for IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2023
- Reviewer for ACM Transactions on Software Engineering and Methodology (TOSEM), 2023
- Program Committee for ISSTA 2023 Artifact Evaluationn
- Program Committee for FUZZING'22 Workshop@NDSS Artifact Evaluation
- Program Committee for ISSTA 2022 Artifact Evaluation
- Program Committee for ICSE 2022 Artifact Evaluation
- Student Volunteer for ESEC/FSE 2022