

# Ruijie Meng

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

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## RESEARCH INTEREST

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

## EDUCATION

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**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

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- 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

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- **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 Server Programs** **COMPSAC'19**  
Biyun Zhu, Ruijie Meng, Zhenyu Zhang, W.K.Chan  
International Computer Software and Applications Conference, 2019.

## TEACHING

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|---|---|
| • <b>CS5219 Automated Software Validation</b><br>Tutor                | National University of Singapore<br>Aug 2023 – Dec 2023 |
| • <b>CS2040 Data Structures and Algorithms</b><br>Teaching assistant  | National University of Singapore<br>Jan 2023 – Apr 2023 |
| • <b>CS5219 Automated Software Validation</b><br>Tutor                | National University of Singapore<br>Aug 2022 – Dec 2022 |
| • <b>CS2040 Data Structures and Algorithms</b><br>Teaching assistant  | National University of Singapore<br>Jan 2022 – Apr 2022 |
| • <b>CS2040S Data Structures and Algorithms</b><br>Teaching assistant | National University of Singapore<br>Aug 2021 – Dec 2021 |

## ACADEMIC SERVICES

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- ISSTA'23 Artifact Evaluation Committee

- FUZZING'22 Workshop@NDSS Artifact Evaluation Committee
- ISSTA'22 Artifact Evaluation Committee
- ICSE'22 Artifact Evaluation Committee