

Ruijie Meng

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

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RESEARCH INTEREST

-
- **Program Analysis and Testing**
 - **Software Security**

EDUCATION

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- | | |
|--|----------------------------|
| Ph.D. candidate, National University of Singapore (NUS), <i>Singapore</i> | Aug 2020 - Present |
| <ul style="list-style-type: none">• Major: Computer Science, School of Computing• Advisor: Abhik Roychoudhury• GPA: 4.83/5 (until now) | |
| M.Eng., University of Chinese Academy of Sciences (UCAS), <i>Beijing, China</i> | Sep 2017 - Jun 2020 |
| <ul style="list-style-type: none">• 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), <i>Tianjin, China</i> | Sep 2013 - Jun 2017 |
| <ul style="list-style-type: none">• Major: Software Engineering, School of Computer Software• GPA: 3.79/4 (Rank: 3/113) | |
| B.Ec., Nankai University (NKU), <i>Tianjin, China</i> | Sep 2014 - Jun 2017 |
| <ul style="list-style-type: none">• Minor: Finance, School of Finance | |

SELECTED AWARDS

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- 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%*)
 - 2017 Outstanding Thesis Award of TJU (*Top 10%*)

PUBLICATIONS

- **Linear-time Temporal Logic guided Greybox Fuzzing** ICSE'22
Ruijie Meng, Zhen Dong, Jialin Li, Ivan Beschastnikh, Abhik Roychoudhury
International Conference on Software Engineering, 2022.
- **Low-Overhead Deadlock Prediction** ICSE'20
Yan Cai, Ruijie Meng*, Jens Palsberg (*co-first author)*
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.

CVE LIST

CVE-2021-38311	CVE-2021-38386	CVE-2021-38387	CVE-2021-40523
CVE-2021-40524	CVE-2021-42141	CVE-2021-42142	CVE-2021-42143
CVE-2021-42144	CVE-2021-42145	CVE-2021-42146	CVE-2021-42147

TEACHING

- **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

- ISSTA'22 Artifact Evaluation Committee
- ICSE'22 Artifact Evaluation Committee