

# Ruijie Meng

Last update: Jan 08, 2022

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

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**Email:** ruijie@comp.nus.edu.sg

**Address:** COM2-01-06, 15 Computing Drive Singapore 117418

**Mobile:** (+65)89498841

**Personal Website:** <https://mengrj.github.io/>

## RESEARCH INTEREST

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

## 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 and Ilya Sergey
- **GPA:** 4.83/5 (until now)

**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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- 2020 - 2024 President's Graduate Fellowship, *Singapore*
- 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

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- **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

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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

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- **CS2040S Data Structures and Algorithms** National University of Singapore  
Teaching assistant Aug 2021 – Dec 2021

## ACADEMIC SERVICES

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- ICSE'22 Artifact Evaluation Committee