# JINWEN WANG

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https://j1nwenwang.github.io

## EDUCATION

**Washington University in St. Louis** *Sep 2019 - Present*
Ph.D. in Computer Science (GPA 3.88/4.0)

**Tsinghua University** *Sep 2016 - Jun 2019*
M.S. in Computer Science (Rank 2/29)

**Sichuan University** *Sep 2012 - Jun 2016*
B.E. in Computer Science (Rank Top 10%)

## RESEARCH INTERESTS

System Security, Software Security, Cyber-Physical System

## PUBLICATIONS

### Main Conference Papers

**[Security 23] ARI: Attestation of Real-time Mission Execution Integrity. Jinwen Wang**, Yujie Wang, Ao Li, Yang Xiao, Ruide Zhang, Wenjing Lou, Y. Thomas Hou, and Ning Zhang, *USENIX Security*, 2023.

**[DAC 23] IP Protection in TinyML. Jinwen Wang**, Yuhao Wu, Han Liu, Bo Yuan, Roger Chamberlain, and Ning Zhang, *ACM/IEEE Design Automation Conference*, 2023, (Acceptance Rate: 23%)

**[RTNS 23] A Procrastinating Control-Flow Integrity Framework for Periodic Real-Time Systems.** Tanmaya Mishra, **Jinwen Wang**, Thidapat Chantem, Ryan Gerdes and Ning Zhang, *International Conference on Real-Time Networks and Systems*, 2023.

**[Oakland 22] RT-TEE: Real-time System Availability for Cyber-physical Systems using ARM TrustZone. Jinwen Wang**, Ao Li, Haoran Li, Chenyang Lu, and Ning Zhang, *IEEE Symposium on Security and Privacy*, 2022, (Acceptance Rate: 147/1012=14.5%).

**[IROS 22] From Timing Variations to Performance Degradation: Understanding and Mitigating the Impact of Software Execution Timing in SLAM.** Ao Li, Han Liu, **Jinwen Wang**, and Ning Zhang, *IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2022.

### Workshop Papers

**[VehicleSec 23] Demo: Real-time System Availability for Cyber-physical Systems using ARM TrustZone. Jinwen Wang**, Ao Li, Haoran Li, Chenyang Lu, and Ning Zhang, *Inaugural Symposium on Vehicle Security and Privacy*.

**[RTSS 22] Work-in-Progress: Measuring Security Protection in Real-time Embedded Firmware.** Yuhao Wu, Yujie Wang, Shixuan Zhai, Zihan Li, Ao Li, **Jinwen Wang**, and Ning Zhang, *IEEE Real-Time Systems Symposium*, 2022.

**[CCS 21] Chronos: Timing Interference as a New Attack Vector on Autonomous Cyber-physical Systems.** Ao Li, **Jinwen Wang**, and Ning Zhang, *ACM SIGSAC Conference on Computer and Communications Security*, 2021.

## SKILLS

Programming languages: C, C++, and Python.
Kernel Programming: Linux kernel modification, device driver modification.
Compiler Customization: Software Instrumentation using LLVM, GCC.
Reverse Engineering: Ghidra

## AWARDS

Qualcomm Best Demo Award Runner Up *2023*
Travel Grant in RTSS *2022*
Dean's International Fellowship (Top 1%) *2019*
China National Scholarship (Top 1%) *2013*

## SERVICES

**Subreviewers:**
IEEE/ACM Transactions on Networking
**External Reviewer:**
2023: ACM Asia CCS
2022: ACM CCS, ACM Asia CCS, IEEE INFOCOM
2021: ISOC NDSS, IEEE INFOCOM
2020: ISOC NDSS, IEEE INFOCOM
2019: IEEE INFOCOM