

# JINWEN WANG

<https://jlnwenwang.github.io>

## EDUCATION

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**Washington University in St. Louis**

*Sep 2019 - Present*

Ph.D. in Computer Science

**Tsinghua University**

*Sep 2016 - Jun 2019*

M.S. in Computer Science

**Sichuan University**

*Sep 2012 - Jun 2016*

B.E. in Computer Science

## RESEARCH INTERESTS

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System Security, Software Security, Cyber-Physical System

## PUBLICATIONS

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**Main Conference Papers** (first author publications **highlighted** )

[CCS 23] **Secure and Timely GPU Execution in Cyber-physical Systems.** Jinwen Wang, Yujie Wang, and Ning Zhang, *ACM Conference on Computer and Communications Security*, 2023.

[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 Symposium*, 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.

### Journal Papers

[TON 23] **Interface-Based Side Channel in TEE-Assisted Networked Services** Xiaohan Zhang, Jinwen Wang, Yueqiang Cheng, Qi Li, Kun Sun, Yao Zheng, Ning Zhang, and Xinghua Li, *IEEE/ACM Transactions on Networking*, 2023.

### 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*, 2023.

[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.

## AWARDS

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<a href="#">Qualcomm Best Demo Award Runner Up</a>	2023
Travel Grant in RTSS	2022
Dean's International Fellowship	2019
National Scholarship in China	2013

## SERVICES

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### Subreviewers:

IEEE/ACM Transactions on Networking

### External Reviewer:

IEEE S&P, Usenix Security, IEEE ACSAC	2024
IEEE EuroS&P, ACM Asia CCS	2023
ACM CCS, ACM Asia CCS, IEEE INFOCOM	2022
ISOC NDSS, IEEE INFOCOM	2021
ISOC NDSS, IEEE INFOCOM	2020
IEEE INFOCOM	2019