

# Mustakimur Rahman Khandaker

---

547 Boyd Graduate Studies Research Center  
Athens, GA 30606  
(850) 999-3635  
mrkhandaker@uga.edu  
mustakim.info

<b>Education</b>	<i>Ph.D. in Computer Science</i> Aug 2015 - Jun, 2020 Department of Computer Science Florida State University <b>Dissertation:</b> Protecting Cyberspace: Vulnerability Discovery and Mitigation <b>Research Focus:</b> System and Software Security <b>Research Advisor:</b> Dr. Zhi Wang
	<i>B.Sc. in Computer Science &amp; Engineering</i> Apr 2008 - Oct, 2012 Department of Computer Science & Engineering Chittagong University of Engineering & Technology <b>Project:</b> Location based early disaster warning and evacuation system on mobile phones using OpenStreetMap
<b>Appointments</b>	<i>Assistant Professor - CyberSecurity</i> Aug 2020 - Present Department of Computer Science University of Georgia Athens, Georgia, USA
	<i>Research Intern - Trustworthy System</i> May 2019 - Aug 2019 CyberSecurity Team Baidu USA Sunnyvale, California, USA
	<i>Research Assistant - CyberSecurity</i> Aug 2015 - Jun 2020 <b>Supervisor:</b> Dr. Zhi Wang Florida State University Tallahassee, Florida, USA
	<i>Senior Software Engineer - Android Smartphone</i> Dec 2012 - Jun 2015 Mobile Lab 2 Samsung Research & Development Institute, Bangladesh Dhaka, Bangladesh
<b>Refereed Publications</b>	<ul style="list-style-type: none"><li>• <b>Mustakimur Khandaker</b>, Yueqiang Cheng, Zhi Wang, and Tao Wei. "Enclave Analysis Framework for SGX Software Interface Attack" <i>25th ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)</i>, 2020. [<a href="#">Open Source</a>] [<a href="#">Artifact Evaluated and Available</a>]</li><li>• <b>Mustakimur Khandaker</b>, Wenqing Liu, Abu Naser, Zhi Wang, and Jie Yang. "Origin-sensitive Control Flow Integrity" <i>Proceedings of the 28th USENIX Security Symposium (USENIX Security)</i>, 2019. [<a href="#">Open Source</a>]</li><li>• <b>Mustakimur Khandaker</b>, Abu Naser, Wenqing Liu, Zhi Wang, Yajin Zhou, and Yueqiang Cheng. "Adaptive Call-site Sensitive Control Flow Integrity"</li></ul>

*Proceedings of the 4th IEEE European Symposium on Security and Privacy (EuroS&P)*, 2019. [[Open Source](#)] [[Best Paper Award](#)]

- Yue Chen, **Mustakimur Khandaker**, and Zhi Wang. "Secure in-cache Execution." *International Symposium on Research in Attacks, Intrusions, and Defenses*. Springer, Cham, 2017.
- Yue Chen, **Mustakimur Khandaker**, and Zhi Wang. "Pinpointing Vulnerabilities." *Proceedings of the 2017 ACM on Asia Conference on Computer and Communications Security*. ACM, 2017.
- **Mustakimur Khandaker**, Tauhidul Alam, and Mahfuzulhoq Chowdhury. "Location based Early Disaster Warning and Evacuation System on Mobile Phones Using OpenStreetMap." *Open Systems (ICOS), 2012 IEEE Conference on*. IEEE, 2012.

## Honors and Awards

**Best Paper Award (2019)**: 4th IEEE European Symposium on Security and Privacy (EuroS&P).

**Graduate Research Assistant Award (2019)**: Department of Computer Science, Florida State University.

**Graduate Teaching Assistant Award (2018)**: Department of Computer Science, Florida State University.

**Outstanding Teaching Assistant Nomination (2018)**: Florida State University.

## Funding

*New Faculty Startup Research Funding*  
Department of Computer Science  
University of Georgia

Aug 2020 - Jul 2023

## Teaching and Advising

### Courses @ UGA

- CSCI 4250/6250 - Cybersecurity
- CSCI 8245 - Secure Programming

### Advising Students

- Diane Beightol Stephens, Ph.D., 2021 - Current
- Kawkab Aldoshan, Ph.D., 2021 - Current

## Professional Services

### Journal Reviewer

- IEEE Transactions on Computers (TC-CS)
- IEEE Transactions on Dependable and Secure Computing (TDSC-CS)

### Program Committee

- The International Workshop on Security, Privacy, and Trust for Emergency Events.
- 41st IEEE Symposium on Security and Privacy [[Shadow Committee](#)].

## Services @ UGA

*Institute of Cybersecurity & Privacy*  
Core Faculty

*Graduate Admission Committee, Department of Computer Science*  
Member

Graduate Curriculum Committee, Department of Computer Science  
Member

#### Open Source

- **COIN-Attacks:** [github.com/mustakcsecuet/COIN-Attacks](https://github.com/mustakcsecuet/COIN-Attacks)
- **OS-CFI:** [github.com/mustakcsecuet/OS-CFI](https://github.com/mustakcsecuet/OS-CFI)
- **CFI-LB:** [github.com/mustakcsecuet/CFI-LB](https://github.com/mustakcsecuet/CFI-LB)
- **Compiler Workshop:** [github.com/mustakcsecuet/syssec-workshop](https://github.com/mustakcsecuet/syssec-workshop)
- **Rust Course Materials:** [github.com/mustakcsecuet/rust\\_classwork](https://github.com/mustakcsecuet/rust_classwork)

#### TECHNOLOGY SKILLS

**Reverse Engineering** - Radare2 disassembler, GDB Enhanced Features (GEF), Capstone disassembler

**Program Analysis** - Intel pin dynamic binary analysis, Triton symbolic engine, Static Value-Flow Analysis (SVF) and its extension SUPA, Unicorn emulator

**Programming** - C/C++, Python, Rust, Java (Oracle Certified Associate Java Programmer), Android, OCaml

**Compiler** - Clang, LLVM

**System** - Linux Kernel, Intel x86-64, Intel SGX, Intel MPX, Intel TSX

#### References

*Dr. Thiab Taha*

Professor & Chair

Department of Computer Science, University of Georgia

Email: [trtaha@uga.edu](mailto:trtaha@uga.edu)

*Dr. Prashant Doshi*

Professor

Department of Computer Science, University of Georgia

Email: [pdoshi@uga.edu](mailto:pdoshi@uga.edu)

*Dr. Roberto Perdisci*

Professor

Department of Computer Science, University of Georgia

Email: [perdisci@uga.edu](mailto:perdisci@uga.edu)

*Dr. Zhi Wang*

Associate Professor

Department of Computer Science, Florida State University

Email: [zwang@cs.fsu.edu](mailto:zwang@cs.fsu.edu)

*Dr. David Whalley*

Professor

Department of Computer Science, Florida State University

Email: [whalley@cs.fsu.edu](mailto:whalley@cs.fsu.edu)