

Penghui Zhang | Curriculum Vitae

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Education

- **Ph.D., Computer Engineering** **Aug 2016–Present**
Ariona State University, Tempe, AZ *Advisor: Adam Doupe & Gail-Joon Ahn*
- **M.S., Electrical and Computer Engineering** **Aug 2014–May 2016**
The Ohio State University, Columbus, OH *Advisor: Xiaorui (Ray) Wang*
Thesis: Temperature Balancing among Servers with Workload Distribution

Publications

Conference Papers with Proceedings (refereed).....

- **Penghui Zhang**, Adam Oest, Haehyun Cho, Zhibo Sun, RC Johnson, Brad Wardman, Shaown Sarker, Alexandros Kapravelos, Tiffany Bao, Ruoyu Wang, Yan Shoshitaishvili, Adam Doupe, and Gail-Joon Ahn, “CrawlPhish: Large-scale Analysis of Client-side Cloaking Techniques in Phishing,” *to appear in the Proceedings of the 42nd IEEE Symposium on Security & Privacy*, May 2021, San Francisco, CA.
- Adam Oest, Yeganeh Safaei, **Penghui Zhang**, Brad Wardman, Kevin Tyers, Yan Shoshitaishvili, Adam Doupe, and Gail-Joon Ahn, “PhishTime: Continuous Longitudinal Measurement of the Effectiveness of Anti-phishing Blacklists,” *in the Proceedings of the 29th USENIX Security Symposium(USENIX)*, Aug 2020, Boston, MA.
- Adam Oest, **Penghui Zhang**, Brad Wardman, Eric Nunes, Jakub Burgis, Ali Zand, Kurt Thomas, Adam Doupe, and Gail-Joon Ahn, “Sunrise to Sunset: Analyzing the End-to-end Life Cycle and Effectiveness of Phishing Attacks at Scale,” *in the Proceedings of the 29th USENIX Security Symposium(USENIX)*, Aug 2020, Boston, MA.
- **Penghui Zhang**, Haehyun Cho, Ziming Zhao, Adam Doupe, and Gail-Joon Ahn, “iCORE: Continuous and Proactive Extrospection on Multi-core IoT Devices,” *in Proceedings of the 34th ACM/SIGAPP Symposium On Applied Computing (SAC)*, Limassol, Cyprus, Apr 2019. (24% acceptance rate.)
- Haehyun Cho, **Penghui Zhang**, Donguk Kim, Jinbum Park, Choong-Hoon Lee, Ziming Zhao, Adam Doupe, and Gail-Joon Ahn, “Prime+Count: Novel Cross-world Covert Channels on ARM TrustZone,” *in Proceedings of the 34th Annual Computer Security Applications Conference (ACSAC)*, San Juan, Puerto Rico, USA, Dec 2018. (20% acceptance rate.)

Service

Technical Program Committee.....

- 2020 The Fourteenth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP)

Session Chair.....

- 2019 IoT Session on ACM/SIGAPP Symposium On Applied Computing (SAC)

Journal Reviewer.....

- Computers & Security
- Journal of Information Processing Systems

External Reviewer.....

- 2020 ACM Conference on Data and Application Security and Privacy (CODASPY)

Experience Summary

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|---|-----------------------------------|
| ○ Graduate Research Assistant | Jan 2017–Present |
| ○ <i>SEFCOM - Security Engineering for Future Computing</i> | <i>Arizona State University</i> |
| ○ Technical Intern PhD | May 2019–Aug 2019 |
| ○ <i>CFIA - Cyber-Fraud Intel.& Analytics</i> | <i>PayPal Inc.</i> |
| ○ Graduate Teaching Assistant | Aug 2016–May 2017 |
| ○ <i>CSE 230, CSE 110, CSE 469</i> | <i>Arizona State University</i> |
| ○ Software Developer | May 2013–Jul 2014 |
| ○ <i>Radar Lab</i> | <i>Beijing Institute of Tech.</i> |

Technical Strengths

- **Programming Languages:** C, Java, Assembly, Python, Matlab, JavaScript, TeX
Also basic ability with: C++, PHP, VHDL.
- **Skills:** System and Script Programming, JavaScript Cloaking Analysis
- **Operating Systems:** Linux, OP-TEE OS, Windows
- **Computer Architectures:** ARM

Honors and Awards

- **Engineering Graduate Fellowship**
from Ira A. Fulton Schools of Engineering, Arizona State University, 2020
- **Ferdinand A. Stanchi Fellowship**
from Arizona State University, 2019
- **Distinguished Poster Award**
“SeCore: Continuous Extrospection with High Visibility on Multi-core ARM Platforms,” by the Organizing Committee of the 8th ACM Conference on Data and Application Security and Privacy

(CODASPY '18).

- **Academic Excellence Scholarship**
from Beijing Institute of Technology, Beijing, China

References

- **Gail-Joon Ahn:** *Email: gahn@asu.edu*
Professor
Fulton Entrepreneurial Professor
Director, Center for Cybersecurity and Digital Forensics
Director, Laboratory of Security Engineering for Future Computing (SEFCOM)
School of Computing, Informatics and Decision Systems Engineering
Ira A. Fulton Schools of Engineering
Arizona State University
- **Adam Doupe:** *Email: doupe@asu.edu*
Assistant Professor
Associate Director, Center for Cybersecurity and Digital Forensics
co-Director, Laboratory of Security Engineering for Future Computing (SEFCOM)
School of Computing, Informatics and Decision Systems Engineering
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