

ADRIAN (SHUAI) LI

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EDUCATION

Purdue University

Ph.D. in Computer Science, Advisor: Elisa Bertino, GPA: 4.0/4.0

2021 - Present

West Lafayette, IN

University of Calgary

M.Sc. in Computer Science, Advisor: Rei Safavi-Naini, GPA: 4.0/4.0

Jan. 2020

Calgary, Canada

Master Thesis: A Capability-based System to Enforce Context-aware Permission Sequences

Wuhan University

BSc. in Computer Science, GPA: 3.7/4.0

Jul. 2017

Wuhan, China

ACADEMIC EXPERIENCE

Purdue University

Graduate Research Assistant, Advisor: Elisa Bertino

May 2021 – Present

West Lafayette, IN

- Topic: Transfer learning for security; domain adaptation for improved representation learning

University of Calgary

Graduate Research Assistant, Advisor: Rei Safavi-Naini

Sep. 2017 – Jan. 2020

Calgary, Canada

- Topic: Context-aware distributed authorization

INDUSTRY EXPERIENCE

IBM Research

Collaborative Researcher, Hosts: Mark Wegman, Yuhai Tu

May 2021 – Present

Remote

- Topic: Domain adaptation for cross-domain classification

Cisco Research

Research Intern III, Hosts: Ashish Kundu, Arun Iyengar

May 2023 – Aug. 2023

San Jose, CA

- Topic: Graph-based learning for malware detection

Aviatrix Systems

Software Developer Intern, Hosts: Susan Hinrichs, Joshua Juen

May 2022 – Aug. 2022

Champaign, IL

- Topic: Machine learning methods for network intrusion detection

TELUS Communications

Security Research Intern, Host: Marc Kneppers

Mar. 2020 – Sep. 2020

Calgary, Canada

- Topic: Context-aware token-based authentication in Ansible Tower

PUBLICATIONS

All publications are available on my website: <https://gloryer.github.io/>.

Preprints Under Review

- [P1] Li, A. S., Bertino, E., Dang, X. H., Singla, A., Tu, Y., & Wegman, M. N. (2024). Maximal Domain Independent Representations Improve Transfer Learning. URL <https://arxiv.org/abs/2306.00262>. Under Review

Peer-Reviewed Journal Articles

- [J1] [Computers & Security] Bhardwaj, S., Li, A. S., Dave, M., & Bertino, E. (2024). Overcoming the lack of labeled data: Training malware detection models using adversarial domain adaptation. Computers & Security. doi:10.1016/j.cose.2024.103769

Peer-Reviewed Conference Papers

- [C1] [NDSS'25] Li, A. S., Iyengar, A., Kundu, A. and Bertino, E., (2024). Revisiting Concept Drift in Windows Malware Detection: Adaptation to Real Drifted Malware with Minimal Samples. Network and Distributed System Security Symposium 2025. URL: <https://arxiv.org/abs/2407.13918>. To Appear
- [C2] [ICIT'23] Li, A. S., Bertino, E., Wu, R. T., & Wu, T. Y. (2023). Building Manufacturing Deep Learning Models with Minimal and Imbalanced Training Data Using Domain Adaptation and Data Augmentation. In 2023 IEEE International Conference on Industrial Technology. doi:10.1109/ICIT58465.2023.10143099
- [C3] [SACMAT'22] Li, A. S., Safavi-Naini, R., & Fong, P. W. (2022). A Capability-based Distributed Authorization System to Enforce Context-aware Permission Sequences. In Proceedings of the 27th ACM on Symposium on Access Control Models and Technologies. doi:10.1145/3532105.3535014

- [C4] **[FPS 2019]** Avizheh, S., Safavi-Naini, R., & **Li, S.** (2020). Secure Logging with Security Against Adaptive Crash Attack. In Foundations and Practice of Security: 12th International Symposium. Springer International Publishing. doi: 10.1007/978-3-030-45371-8_9
- [C5] **[IoT S & P][Best paper award]** Doan, T. T., Safavi-Naini, R., **Li, S.**, Avizheh, S., K, M. V., & Fong, P. W. (2018). Towards a resilient smart home. In Proceedings of the ACM SIGCOMM 2018 Workshop on IoT Security and Privacy. doi: 10.1145/3229565.3229570

Books

- [B1] Bertino, E., Bhardwaj, S., Cicala, F., Gong, S., Karim, I., Katsis, C., Lee, H., **Li, A.S.** and Mahgoub, A.Y., (2023). Machine Learning Techniques for Cybersecurity. Springer Nature. doi: 10.1007/978-3-031-28259-1

Theses

- [T1] **Li, S.** (2020). A Capability-based System to Enforce Context-aware Permission Sequence. Master's thesis, University of Calgary, Calgary, Canada

AWARDS AND HONORS

Academic and Research Standing Excellence 2024

[C5]. Best paper award

Mitacs Globalink Graduate Fellowship

Academic Excellence Scholarship

Purdue University Computer Science Department

IoT S&P 2018

Mitacs

Wuhan University

RESEARCH MENTORING

Md Ajwad Akil (PhD), Purdue CS

PROFESSIONAL SERVICE

Reviewer

- WIREs Data Mining and Knowledge Discovery
- IEEE International Conference on Data Engineering (ICDE), 2024
- IEEE Global Communications Conference (Globecom), 2024
- European Symposium on Research in Computer Security (ESORICS), 2024
- Annual Computer Security Applications Conference (ACSAC), 2023, 2024
- The ACM Symposium on Access Control Models and Technologies (SACMAT), 2022, 2024
- ACM Conference on Data and Application Security and Privacy (CODASPY), 2022, 2024

TEACHING

Purdue University

Guest Lecturer: CS 59000-DSP Data Security And Privacy

Purdue University

Graduate Teaching Assistant for CS 182

Spring 2023 and 2024

West Lafayette, IN

Spring 2021

West Lafayette, IN

OTHER SERVICE

University of Calgary Computer Science Graduate Society

Vice President

Security Researchers and Industry Experts Talks

Program Committee

The 25th Conference on Selected Areas in Cryptography

Student Volunteer

Jun. 2018 – May 2019

Calgary, Canada

Sep. 2018

Calgary, Canada

Aug. 2018

Calgary, Canada

INVITED TALKS

Cisco Open Mic Talks

Domain Adaptation for Malware Classification Using Control Flow Graphs

Nov. 2023

Virtual

CERTIFICATE

Aviatrix Systems

Multi-Cloud Network Professional

May 2022