A. BIOGRAPHICAL INFORMATION

1. Contact

Dept of Computer Science, University of Toronto, 40 St. George Street, Room 4283 Toronto, ON M5S 2E4, Canada

7 +1(470) 263-4332 \bowtie gururaj@cs.toronto.edu https://gururaj-s.github.io/

Date of Revision: 16 July 2025

2. Degrees

Ph.D., Electrical and Computer Engineering, August 2022

Georgia Institute of Technology, Atlanta, Georgia USA

Dissertation: "Architecting Secure Processor Caches", Advisor: Prof. Moinuddin K. Qureshi

B.Tech. and M.Tech., Electrical Engineering, August 2014

Indian Institute of Technology - Bombay (IIT-B), Mumbai, India

3. Employment

Sept 2022 – present: Assistant Professor, University of Toronto Mississauga, Dept of Mathematical and Computational Sciences, Mississauga ON, Canada. Sept 2022 - present: Assistant Professor, University of Toronto, Dept of Computer Science, Toronto ON, Canada. Aug 2022 - Aug 2023: Postdoctoral Research Scientist, NVIDIA Research, Seattle, USA Aug 2016 – July 2022: Graduate Research Assistant, Georgia Tech, Atlanta, USA

May 2021 - Aug 2021: Visiting Researcher, CoreSec Group, Graz University of Technology, Graz, Austria

May 2020 – Aug 2020: **Research Intern**, IBM Research (T.J. Watson Center), New York, USA

May 2019 - Aug 2019: Research Intern, Microsoft Azure Research, Redmond, USA

May 2018 - Aug 2018: **Research Intern**, Intel Labs (Security & Privacy), Hillsboro, USA

May 2017 – Aug 2017: Research Intern, ARM Research, Austin, USA

4. Honours

• University of Toronto Dean's Excellence Award 2025, for outstanding research achievements	2025
• IEEE HPCA Distinguished Artifact Award for HPCA 2025 paper, QPRAC	2025
• IEEE Top Pick in Hardware and Embedded Security Award for SEC 2021 paper, MIRAGE Top pick among top-tier architecture, security and CAD conferences of the last 5 years.	2024
• ACM-SIGMICRO Dissertation Award (Honorable Mention)	2023
• ACM-SIGARCH/IEEE-TCCA Outstanding Dissertation Award (Honorable Mention)	2023
• Best Paper Award, IEEE HPCA 2023 Conference	2023
• Best PhD Dissertation Award, IEEE Hardware Oriented Security & Trust	2022
• Distinguished Reviewer, Shadow PC, IEEE Security & Privacy'21 (Oakland)	2021
• Awarded Georgia Tech Information Security & Privacy (IISP) Fellowship	2021
• Finalist at the Qualcomm Innovation Fellowship (one of 43 finalists)	2021
• Selected for 8th Heidelberg Laureate Forum (one of 100 students worldwide)	2020
• IEEE-Micro Top-Picks Honorable Mention	2019
Among Top-22 out of 200+ papers in top computer architecture conferences in 2018	
• Invited Speaker, FOCA Workshop at IBM Research (one of 7 students invited)	2019
• Finalist for Microsoft Ph.D. Fellowship (one of 20 finalists from 600+ applicants)	2019

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• Finalist at the Qualcomm Innovation Fellowship (one of 37 finalists)	2019
• Awarded M&H Bourne Fellowship, Georgia Tech (to exceptional new students)	2016
Recipient of Undergraduate Research Award, IIT-Bombay	2013

B. ACADEMIC HISTORY

5. A. Research Endeavours

Research Interests: Computer Architecture and Systems Security, focusing on microarchitectural security (cache side-channels, transient execution attacks, Rowhammer attacks), system security (memory safety and fuzzing) and security for machine learning systems (LLM side channels, data isolation).

Impact: Published **18** conference papers in **top-tier venues in computer architecture** (ISCA, MICRO, HPCA, ASPLOS) and **computer security** (USENIX Security, S&P-Oakland, CCS).

B. Research Awards

- 1. **NSERC Discovery Grant:** Automated Testing Techniques for Hardware Security and Reliability (sole PI), 2023-2028. CAD 185,000.
- 2. **NSERC Discovery Launch Supplement:** *Automated Testing Techniques for Hardware Security and Reliability* (sole PI), 2023-2028. CAD 12,500.
- 3. **NSERC CSE Research Communities Grant:** *An End-to-End Approach to Safe and Secure AI Systems* (co-PI), 2024-2028. CAD 240,000.

C. **Patents** awarded (in reverse chronological order)

- 1. Tong Chen, Alper Buyuktosunoglu, Richard Boivie, and **Gururaj Saileshwar**. "Safe execution of programs that make out-of-bounds references". US PTO 12,204,460. USA.
- 2. Richard Boivie, Tong Chen, Alper Buyuktosunoglu, and **Gururaj Saileshwar**. "Protecting against invalid memory references". US PTO 11,966,382. USA.
- 3. Richard Boivie, Tong Chen, Alper Buyuktosunoglu, and **Gururaj Saileshwar**. "Protecting against invalid memory references". US PTO 11,429,590. USA.
- 4. **Gururaj Saileshwar** and Muntaquim Chowdhury. "Speculative Information Flow Tracking". US PTO 11,301,591. USA.
- 5. **Gururaj Saileshwar**, Prakash Ramrakhyani, Wendy Elsasser. "Memory Organization for Security and Reliability". US PTO 10,540,297. USA.

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C. SCHOLARLY AND PROFESSIONAL WORK

6. Refereed Publications

In computer science, peer-reviewed conferences are more prestigious than journals, with top-tier conferences such as ISCA, MICRO, HPCA, ASPLOS in computer architecture, and S&P, SEC, and CCS in computer security being the most prestigious, with typical acceptance rates below 20%.

My research has resulted in 18 top-tier publications: 3 x ISCA, 3 x MICRO, 3 x HPCA, 3 x ASPLOS, 3 x SEC, 2 x S&P, 1 x CCS papers.

A. **Conferences** (in reverse chronological order)

- Chris S. Lin*, Joyce Qu*, and Gururaj Saileshwar. "GPUHammer: Rowhammer Attacks on GPU Memories are Practical", In 34th USENIX Security Symposium, 2025. (SEC'25)
 Media Coverage: ArsTechnica, Tom's Hardware, The Register, Mashable, TechRadar, The Hacker News, BleepingComputer, SecurityWeek, CybersecurityNews, SCMedia, Fudzilla, SDXCentral, PC Perspective, CyberPress, GBHackers, ITNews, Guru3D, WebProNews, WCCFTech, Security Brief Australia, Red Hot Cyber.
- 2. Yuqin Yan, Wei Huang, Ilya Grishchenko, **Gururaj Saileshwar**, Aastha Mehta, and David Lie. "Title under embargo", In *34th USENIX Security Symposium*, 2025. (**SEC'25**)
- 3. Jeonghyun Woo, Joyce Qu, **Gururaj Saileshwar** and Prashant J Nair. "When Mitigations Backfire: Timing Channel Attacks and Defense for PRAC-Based Rowhammer Mitigations", In *51st ACM/IEEE International Symposium on Computer Architecture*, 2025. (ISCA'25)
- 4. Jules Drean, Fisher Jepsen, Edward Suh, Srini Devadas, Aamer Jaleel, and **Gururaj Saileshwar**. "Teaching an Old Dog New Tricks: Verifiable FHE Using Commodity Hardware", In 25th Proceedings on Privacy Enhancing Technologies Symposium, 2025. (**PoPETS'25**)
- 5. Bo Fu*, Leo Tenenbaum*, David Adler, Assaf Klein, Arpit Gogia, Alaa R. Alameldeen, Marco Guarnieri, Mark Silberstein, Oleksii Oleksenko, and Gururaj Saileshwar. "AMuLeT: Automated Design-Time Testing of Secure Speculation Countermeasures", In 30th ACM International Conference on Architectural Support for Programming Languages and Operating Systems, 2025. (ASPLOS'25)
- 6. Jeonghyun Woo, Shaopeng Lin, Prashant J Nair, Aamer Jaleel, and **Gururaj Saileshwar**. "QPRAC: Towards Secure and Practical PRAC-based Rowhammer Mitigation using Priority Queues", In 31st IEEE International Symposium on High Performance Computer Architecture, 2025. (HPCA'25)

 ** IEEE HPCA Distinguished Artifact Award 2025
- 7. Aamer Jaleel, **Gururaj Saileshwar**, Steve Keckler, and Moinuddin Qureshi. "PrIDE: Achieving Secure Rowhammer Mitigation with Low-Cost In-DRAM Trackers", In 51st ACM/IEEE International Symposium on Computer Architecture, 2024. (ISCA'24)

 Acceptance rate: 19.6%
- 8. Anish Saxena, **Gururaj Saileshwar**, Jonas Juffinger, Andreas Kogler, Daniel Gruss, and Moinuddin Qureshi. "PT-Guard: Integrity-Protected Page Tables to Defend Against Breakthrough Rowhammer Attacks", In 53rd Annual IEEE/IFIP International Conference on Dependable Systems and Networks 2023. (**DSN'23**)

 Acceptance rate: 19.6%
- 10. Stefan Gast, Jonas Juffinger, Martin Schwarzl, **Gururaj Saileshwar**, Andreas Kogler, Simone Franza, Markus Kostl, and Daniel Gruss. "SQUIP: Exploiting the Scheduler Queue Contention Side Channel",

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In 44th IEEE Symposium on Security and Privacy, 2023. (S&P'23)

Acceptance rate: 17%

Media Coverage: Phoronix, Tom's Hardware, SecurityWeek, HackDay, Neowin, HotHardware, NotebookCheck, WCCFTech, TechRadar, The Hacker News, NextPlatform.

- 11. Jeonghyun Woo, **Gururaj Saileshwar** and Prashant J Nair. "Scalable and Secure Row-Swap: Efficient and Safe Row Hammer Mitigation in Memory Systems", In 29th IEEE International Symposium on High Performance Computer Architecture, 2023. (HPCA'23)

 Acceptance rate: 25.3%

 IEEE HPCA Best Paper Award 2023
- 12. Anish Saxena, **Gururaj Saileshwar**, Prashant J Nair and Moinuddin Qureshi. "AQUA: Scalable Rowhammer Mitigation by Quarantining Aggressor Rows at Runtime", In *55th ACM/IEEE International Symposium on Microarchitecture*, 2022. (**MICRO'22**)

 **Acceptance rate: 23.8%
- 13. Moinuddin Qureshi, Aditya Rohan, **Gururaj Saileshwar** and Prashant J Nair. "Hydra: Enabling Low-Overhead Mitigation of Row-Hammer at Ultra-Low Thresholds via Hybrid Tracking", In 49th ACM/IEEE International Symposium on Computer Architecture, 2022. (ISCA'22) Acceptance rate: 16.8%
- 14. Gururaj Saileshwar, Bolin Wang, Moinuddin Qureshi and Prashant J Nair. "Randomized Row-Swap: Mitigating Rowhammer by Breaking Spatial Correlation Between Aggressor and Victim Rows", In 27th ACM International Conference on Architectural Support for Programming Languages and Operating Systems, 2022. (ASPLOS'22)
 Acceptance rate: 20.2%
- 15. Rick Boivie, **Gururaj Saileshwar**, Tong Chen, Benjamin Segal, and Alper Buyuktosunoglu. "On the Scalability of HeapCheck", In *52nd IEEE/IFIP International Conference on Dependable Systems and Networks (Industry Track)*, 2022. **(DSN'22)**
- 16. Ren Ding, Yonghae Kim, Fan Sang, Wen Xu, Gururaj Saileshwar, Taesoo Kim. "Hardware Support to Improve Fuzzing Performance and Precision", In 28th ACM Conference on Computer and Communications Security, 2021. (CCS'21)
- 17. **Gururaj Saileshwar**, Sanjay Kariyappa, Moinuddin Qureshi. "Bespoke Cache Enclaves: Fine-Grained and Scalable Isolation from Cache Side-Channels via Flexible Set-Partitioning", In *1st IEEE International Symposium on Secure and Private Execution Environment Design*, 2021. (**SEED'21**)
- 18. **Gururaj Saileshwar** and Moinuddin Qureshi. "MIRAGE: Mitigating Conflict-Based Cache Attacks with a Practical Fully-Associative Design", In *30th USENIX Security Symposium*, 2021. (**SEC'21**) *Acceptance rate:* 21.7%
 - ▼ IEEE Top Pick in Hardware and Embedded Security 2024
- 19. Gururaj Saileshwar, Christopher W Fletcher, and Moinuddin Qureshi. "Streamline: A Fast, Flushless Cache Covert-channel Attack by Enabling Asynchronous Collusion", In 26th ACM International Conference on Architectural Support for Programming Languages and Operating Systems, 2021. (ASPLOS'21)
 Acceptance rate: 18.9%
- 20. Rick Boivie*, **Gururaj Saileshwar***, Tong Chen, Benjamin Segal, and Alper Buyuktosunoglu. "Hardware Support for Low-Cost Memory Safety", In 51st IEEE/IFIP International Conference on Dependable Systems and Networks (Industry Track), 2021. (**DSN'21**) *equal contribution
- 21. **Gururaj Saileshwar** and Moinuddin Qureshi. "CleanupSpec: An "Undo" Approach to Safe Speculation", In *52nd ACM/IEEE International Symposium on Microarchitecture*, 2019. (**MICRO'19**) *Acceptance rate*: 22.9%
- 22. Gururaj Saileshwar, Prashant J Nair, Prakash Ramrakhyani, Wendy Elsasser, Jose A Joao, and

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Moinuddin Qureshi. "Morphable Counters: Enabling Compact Integrity Trees for Low-Overhead Secure Memories.", In 51st ACM/IEEE International Symposium on Microarchitecture, 2018. (MICRO'18) Acceptance rate: 21.3%

23. **Gururaj Saileshwar**, Prashant J Nair, Prakash Ramrakhyani, Wendy Elsasser, and Moinuddin Qureshi. "Synergy: Rethinking Secure-memory Design for Error-Correcting Memories.", In *24th IEEE International Symposium on High Performance Computer Architecture*, 2018. **(HPCA'18)** *Acceptance rate:* 20.8%

TIEEE MICRO Top Picks Honorable Mention 2019

B. **Journals** (in reverse chronological order)

- 1. **Gururaj Saileshwar** and Moinuddin Qureshi. "The Mirage of Breaking MIRAGE: Analyzing the modeling pitfalls in emerging attacks on MIRAGE". In *IEEE Computer Architecture Letters*, 2023. (CAL'23)
- 2. Anurag Kar, Xueyang Liu, Yonghae Kim, **Gururaj Saileshwar**, Hyesoon Kim, and Tushar Krishna. "Mitigating Timing-Based NoC Side-Channel Attacks With LLC Remapping". In *IEEE Computer Architecture Letters*, 2023. **(CAL'23)**
- 3. **Gururaj Saileshwar**, Rick Boivie, Tong Chen, Benjamin Segal, and Alper Buyuktosunoglu. "HeapCheck: Low-Cost Hardware-Support for Memory-Safety", In *ACM Transactions on Architecture and Code Optimization*, 2022. **(TACO'22)**

C. Workshops

1. Elba Garza, **Gururaj Saileshwar**, Udit Gupta, Tianyi Liu, Abdulrahman Mahmoud, Saugata Ghose, and Joel Emer. "Mentoring Opportunities in Computer Architecture: Analyzing the Past to Develop the Future", In *21st Workshop on Computer Architecture Education held in conjunction with ISCA 2021*, 2021. **(WCAE'21)**

7. **Non-Refereed Publications** (in reverse chronological order)

- 1. Tianchen Zhang, **Gururaj Saileshwar** and David Lie. "Time Will Tell: Timing Side Channels via Output Token Count in Large Language Models", *arXiv:2412.15431*, 2024.
- 2. Jiankun Wei, Abdulrahman Abdulrazzag, Tianchen Zhang, Adel Muursepp, and **Gururaj Saileshwar**. "Privacy Risks of Speculative Decoding in Large Language Models", *arXiv:2411.01076*, 2024.
- 3. **Gururaj Saileshwar** and Moinuddin Qureshi. "Lookout for Zombies: Mitigating Flush+ Reload Attack on Shared Caches by Monitoring Invalidated Lines", *arXiv:1906.02362*, 2019.

8. Invited Lectures

A Good Offense is the Best Defense: Robustly Mitigating Spectre and Rowhammer in Future Systems

• ETH Zurich, Zurich, Switzerland	2025
 Google Hardware Security Workshop, Zurich, Switzerland 	2025
 Intel IPAS Tech Sharing Seminar, Virtual 	2025
 CISPA Helmholtz Center for Information Security, Germany 	2025
Learning to Trust DRAM in the Era of Worsening Rowhammer Attacks	
• Carnegie Mellon University (CMU), USA (virtual).	2024
 ZTHA Workshop co-located with CHES, Halifax, Canada. 	2024
Microarchitectural Side-Channels: Attacks, Defenses, and Ending the Arms Race	
Microsoft Research, Redmond, USA.	2024

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Rowhammer: Learnings from Designing Defenses and Outlook For the Future	
• Dagstuhl Seminar on "Micro-architectural Attacks and Defenses", Germany.	2023
Mitigating DRAM Rowhammer Attacks in the Era of Breakthrough Attacks	
• Invited talk at HASP Workshop co-located with MICRO, Toronto, Canada.	2023
Securing Processors from Side-Channel Attacks: Caches, Schedulers, and Beyond!	
• Intel Labs - Bangalore, India	2023
IISc Bangalore, Bengaluru, India	2023
IIT-Kanpur, Kanpur, India	2023
• IIT-Madras, Chennai, India	2023
• IIT-Delhi, Delhi, India	2023
• IIT-Bombay, Mumbai, India	2023
• University of Waterloo (Computer Science), Waterloo, Canada	2023
Rethinking Security for Computing Hardware through Principled Randomization	
University of Toronto, Toronto, Canada	2022
• University of Wisconsin-Madison, Madison, USA	2022
University of British Columbia, Vancouver, Canada	2022
University of Waterloo, Waterloo, Canada	2022
Simon Fraser University, Burnaby, Canada	2022
• UC-Irvine, Irvine, USA	2022
University of Maryland, College Park, USA	2022
NVIDIA Research, USA	2022
AMD Research, USA	2022
Practical CPU-Driven Defenses for DRAM Rowhammer Attacks	
• Intel Labs (Security and Privacy Research Group)	2022
Streamline: A Fast, Flushless Cache Covert-channel Attack	
SRC CRISP Program Industry Liaison Meeting (virtual)	2021
• ASPLOS 2021, Virtual.	2021
MIRAGE: Mitigating Cache Attacks with a Practical Fully-Associative Design	
• Top Picks in Hardware and Embedded Security Workshop, Newark, NJ, USA.	2025
• USENIX Security Symposium 2021, Vancouver, BC, Canada. (virtual)	2021
• TU Graz - IAIK, Graz, Austria.	2021
• IBM Research - Security Group, TJ Watson Center, NY, USA. (virtual)	2020
• 5th Future of Computing Architecture Workshop (virtual), IBM Research, NY, USA	2020
CleanupSpec: An Undo Approach to Safe Speculation	
• MICRO 2019, Fukuoka, Japan	2019
• Intel Labs - Security & Privacy Research, Hillsboro, OR, USA. (virtual)	2019
SIFT: Speculative Information Flow Tracking to Mitigate Speculation-Attacks	
• Microsoft Research, Redmond, WA, USA.	2019
	2019
Enabling Low-Cost Security against Micro-Architectural Side Channels	2010
 4th Future of Computing Architecture Workshop, IBM Research, NY, USA Microsoft Research, Redmond, WA, USA. 	2019 2019
Qualcomm Research, San Diego, CA, USA.	2019
	2019
Architecting Secure Memories with Commodity DRAM	2010
• Intel Labs - Processor Architecture Research, Bangalore, India.	2018
ARM Research, Austin, TX, USA.	2017

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Morphable Counters: Compact Integrity Trees for Secure Memories

• MICRO 2018, Cambridge, MA, USA.

2018

Effective Memory Safety for Small Objects with Low Overheads

• Intel Labs - Security & Privacy Research, Hillsboro, OR, USA.

2018

Synergy: Rethinking Secure Memory Design for Error Correcting Memories

• HPCA 2018, Vienna, Austria.

2018

D. TEACHING AND MENTORING

9. A. Undergraduate courses taught

University of Toronto - Mississauga

• CSC427-0201 : Computer Security

Winter 2025

Enrollment: 31. Introduced new topics like Spectre and Rowhammer, and instructor delivered lectures.

• CSC427-0101 : Computer Security

Winter 2024

Enrollment: 54. Revamped assignments that formed 30% of the overall assessment.

B. Graduate courses taught

University of Toronto

- CSC2231: Special Topics in Computer Systems Secure Computer Systems and Hardware Fall 2024 Enrollment: 11.
- CSC2231: Special Topics in Computer Systems Secure Computer Systems and Hardware Fall 2023 Enrollment: 11.

Georgia Institute of Technology - USA (Co-Instructor)

• CS7292: Reliable & Secure Architecture

Fall 2021

Delivered 30% course lectures. Co-designed curriculum, labs and exams.

C. Theses supervised

1. Shaopeng Lin (University of Toronto, PhD. Thesis)

Sept 2024 - Current

Thesis: Rowhammer Attacks and Defenses for CPUs and GPUs

2. Raghav Sharma (University of Toronto, MSc. Thesis)

Sept 2024 - Current

Thesis: Fully-Homomorphic Encryption Systems

3. Bo Fu (University of Toronto, MSc. Thesis)

Sept 2023 - April 2025

Thesis: Automated Design-Time Testing of Secure Speculation Countermeasures

4. Gary Wei (University of Toronto, BASc. Thesis)

Sept 2023 - Apr 2024

Thesis: Side-Channels via Sparsity and Caching in Machine Learning Systems

D. Undergraduate students supervised

- 1. **Joyce Qu** (3rd year), *Rowhammer Attacks and Defenses*University of Toronto Excellence Award (UTEA), Summer 2025
 Research Volunteer, Fall 2024 Winter 2025.
- David Wei (4th year), Side Channel Attacks on Speculative Decoding in LLMs NSERC Undergraduate Student Research Award, Summer 2025 CSC494, Summer 2024 - Winter 2025
- 3. **Allison Lau** (4th year), *Prompt Injection Attacks on AI Agentic Systems* NSERC Undergraduate Student Research Award, Summer 2025
- 4. **Anthony Dimaggio** (4th year), *GPU Confidential Computing* DCS Research Award, Summer 2025 CSC494, Summer 2024

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 Louis Ryan Tan (3rd year), Prompt Injection Attacks on AI Agentic Systems DCS Research Award, Summer 2025

- 6. **Henry Chen** (3rd year), *Fuzzing RISC-V CPUs for Side-Channels* DCS Research Award, Summer 2025
- 7. **Leo Tanenbaum** (4th year), *Automated Leakage Testing of CPU Speculation Defenses* NSERC Undergraduate Student Research Award, Summer 2024; CSC494, Winter 2024
 - Tirst Place at ACM Student Research Competition (Undergraduate), MICRO 2024
 - TRA Outstanding Undergraduate Researcher Award 2024-25 (Honorable Mention)
- 8. **Abdulrahman Abdulrazzaq** (4th year), *Side-Channel Attacks on Speculative Decoding in LLMs* NSERC Undergraduate Student Research Award, Summer 2024
- 9. **Shaopeng Lin** (4th year), *GPU Rowhammer Attacks*University of Toronto Excellence Award (UTEA), Summer 2024; CSCD94H3, Winter 2024
- 10. **Richard Shi** (3rd year), *ML Pruning in Secure Federated Learning* University of Toronto Excellence Award (UTEA), Summer 2024
- 11. **Adel Mursuup** (3rd year), *Side-Channel Attacks on Speculative Decoding in LLMs* CSC494, Summer 2024
- 12. **Mathew Toohey** (4th year), Formal Verification of CPU Speculation Defenses CSC494, Fall 2024
- 13. **Leonid Nediak** (4th year), *Formal Verification of CPU Speculation Defenses* CSC494/495, Fall 2024 Winter 2025
- 14. **Theodore Preduta** (4th year), *Fuzzing RISC-V CPUs on FPGAs for Vulnerabilities* CSC494/495, Fall 2024 Winter 2025
- 15. **Yifu Zhu** (4th year), *Fuzzing RISC-V CPUs for Vulnerabilities* CSC494/495, Summer 2024 Winter 2025
- 16. **David Adler** (3rd year), *Automated Leakage Testing of CPU Speculation Defenses* CSC494, Summer 2024
- 17. **Shubh Bapna** (4th year), *RowPress Attacks on DDR3 DRAM* CSC492H5, Winter 2024
- 18. **Warren Liu** (4th year), *DRAM Rowhammer Attacks on Apple iPhones* CSC494, Winter 2024
- 19. **Juan Yi Loke** (4th year), *Latency and Accuracy Trade-off in Private ML Inference* CSC494, Winter 2024
- 20. **Harshkumar Patel** (3rd year), *Latency and Accuracy Trade-off in Private ML Inference* CSC494, Winter 2024
- 21. **Ahmad Islah** (4th year), *Privacy and Performance Trade-Offs in Federated Learning* CSC494, Winter 2024
- 22. **Chenika Bukes** (3rd year), *Privacy and Performance Trade-Off in Federated Learning* CSC494, Winter 2024
- 23. **Yinuo Zhao** (3rd year), *Side-Channels in LLM Speculative Decoding* CSC494, Winter 2024
- 24. **Sophia Abolore** (4th year), *Side-Channels in LLM Speculative Decoding* CSC494, Winter 2024

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E. Other teaching and lectures given

• University of Toronto - Mississauga, Toronto, Guest Lecturer

CSC148: Introduction to Computer Science
 Georgia Institute of Technology - USA, Guest Lecturer
 ECE8873: Advanced Hardware Oriented Security & Trust

Fall 2018

Spring 2018

E. ADMINISTRATIVE POSITIONS

10. A. Positions held and service on committees and organizations within the University

• Faculty Recruitment Committee (Tenure Stream), Dept of Computer Science, UofT. 2024-2025

• Faculty Recruitment Committee (Tenure Stream), Dept of Computer Science, UofT. 2023-2024

- B. Positions held and service on committees and organizations outside the University
 - Co-Chair, Artifact Evaluation Committee, ISCA'25
 - Workshop & Tutorials Co-Chair, MICRO'24

- ECE7103: Advanced Memory Systems

- Co-Chair, Artifact Evaluation Committee, ISCA'24
- Workshop & Tutorials Co-Chair, MICRO'23
- Co-Chair, Artifact Evaluation Committee, ASPLOS'23
- Program-Committee Member:
 - USENIX Security Symposium, 2026.
 - International Symposium on Microarchitecture (MICRO), 2025.
 - International Symposium on Computer Architecture (ISCA), 2025.
 - International Symposium on High Performance Computer Architecture (HPCA), 2025.
 - International Symposium on Microarchitecture (MICRO), 2024.
 - International Symposium on Research in Attacks, Intrusions & Defenses (RAID), 2024
 - International Symposium on Microarchitecture (MICRO), 2023.
 - International Conference on Dependable Systems and Networks (DSN), 2023.
 - International Symposium on Research in Attacks, Intrusions & Defenses (RAID), 2023
 - Top Picks in Hardware and Embedded Security (HES), 2022
 - International Symposium on Research in Attacks, Intrusions & Defenses (RAID), 2022
 - European Symposium on Research in Computer Security (ESORICS), 2022.
 - IEEE Symposium on Security & Privacy (Oakland), 2022.
- External Review Committee Member: ISCA 2022.
- Shadow PC Member: IEEE S&P (Oakland) 2021. Recognized as Distinguished Reviewer.
- Reviewer: IEEE CAL, IEEE MICRO, IEEE TCAD, IEEE Trans. Computers, IEEE TVLSI.
- Artifact Evaluation Committee Member: USENIX Security 2020, ASPLOS 2020.
- Steering Committee Member, Computer Architecture Students Association (CASA)
 - Co-organized mentorship programs Meet-A-Senior Architect at ASPLOS'21, ISCA'21, and Meet-a-Senior-Student at MICRO'20, ASPLOS'21, enabling 500+ mentoring sessions.