

Education

University of TorontoToronto, ON, CanadaPh.D. in Computer ScienceSep. 2022 - ongoing

o Advisors: Nicolas Papernot and Chris Maddison

University of TorontoToronto, ON, CanadaB.Sc in Mathematics, Spent Fall 2020 in Engineering ScienceSep. 2020 - May 2022

o GPA: 3.92/4.0

Simon Fraser UniversityBurnaby, BC, CanadaConcurrent Studies Student (attended while in highschool)Sep. 2017 - May 2020

o GPA: 4.09/4.33

Awards and Honours

2023 Canada Graduate Scholarship-Doctoral: NSERC

o declined due to Vanier

2023 Vanier Canada Graduate Scholarship: NSERC

o Rank 1/173 of national round nominees (Ph.D. students in the Natural Sciences or Engineering)

Doctoral Entrance Scholarship: UofT Department of Computer Science

Doctoral Recruitment Award: UofT Faculty of Arts and Science

Galois Award: University College UofT

Dean's List Scholar: UofT Dean's Honours List: UofT

2020 Loran Scholarship National Finalist: Loran Scholar's Foundation

o Top 88 highschool students in Canada

Publications

Iournal Proceedings.....

"From Differential Privacy to Bounds on Membership Inference: Less can be More": Anvith Thudi, Ilia Shumailov, Franziska Boenisch, Nicolas Papernot. Transactions on Machine Learning Research

"Selective Classification via Neural Training Dynamics": Stephan Rabanser, Anvith Thudi, Kimia Hamidieh, Adam Dziedzic, Nicolas Papernot. Transactions on Machine Learning Research

Conference Proceedings

"Gradients Look Alike: Sensitivity is Often Overestimated in DP-SGD": Anvith Thudi, Hengrui Jia, Casey Meehan, Ilia Shumailov, Nicolas Papernot. Proceedings of the 33rd USENIX Security Symposium, 2024

"Better Sparsifiers for Directed Eulerian Graphs": Sushant Sachdeva, Anvith Thudi, Yibin Zhao. Proceedings of the 51st EATCS International Colloquium on Automata, Languages and Programming

"Training Private Models That Know What They Don't Know": Stephan Rabanser, Anvith Thudi, Abhradeep Thakurta, Krishnamurthy Dvijotham, Nicolas Papernot. Proceedings of the 37th Conference on Neural Information Processing Systems

"Proof-of-Learning is Currently More Broken Than You Think": Congyu Fang, Hengrui Jia, Anvith Thudi, Mohammad Yaghini, Christopher A. Choquette-Choo, Natalie Dullerud, Varun Chandrasekaran, Nicolas Papernot. Proceedings of the 8th IEEE European Symposium on Security and Privacy, 2023

"On the Necessity of Auditable Algorithmic Definitions for Machine Unlearning": Anvith Thudi, Hengrui Jia, Ilia Shumailov, Nicolas Papernot. Proceedings of the 31st USENIX Security Symposium, 2022

"Unrolling SGD: Understanding Factors Influencing Machine Unlearning": Anvith Thudi, Gabriel Deza, Varun Chandrasekaran, Nicolas Papernot. Proceedings of the 7th IEEE European Symposium on Security and Privacy, 2022

"Proof of Learning: Definitions and Practice": Hengrui Jia, Mohammad Yaghini, Christopher A. Choquette-Choo, Natalie Dullerud, Anvith Thudi, Varun Chandrasekaran, Nicolas Papernot. Proceedings of the 42nd IEEE Symposium on Security and Privacy, 2021

Preprints

"Finding Optimally Robust Data Mixtures via Concave Maximization": Anvith Thudi, Chris J. Maddison

"Unlearnable Algorithms for In-context Learning": Andrei Muresanu, Anvith Thudi, Michael R. Zhang, Nicolas Papernot

"SoK: Machine Learning Governance": Varun Chandrasekaran, Hengrui Jia, Anvith Thudi, Adelin Travers, Mohammad Yaghini, Nicolas Papernot

Experience

Microsoft Research Cambridge

Ph.D. Research Intern

Cambridge, UK May. 2023 - July 2023

Talks

"Datapoints that are Easy to Unlearn": Google DeepMind

"Gradients Look Alike: Sensitivity is Often Overestimed in DP-SGD": Usenix Security 24'

"Datapoints that are Easy to Unlearn": Harvard Efficient ML Seminar

"The Unlearning Problem(s)": CS 562 at University of Illinois Urbana-Champaign

"The Unlearning Problem(s)": The Alan Turing Institute

"The Unlearning Problem(s)": Cambridge

"The Unlearning Problem(s)": Google

"The Unlearning Problem(s)": EPFL

"The Unlearning Problem(s)": ETH Zurich

"On the Necessity of Auditable Algorithmic Definitions for Machine Unlearning": Usenix Security 22'

"Unrolling SGD: Understanding Factors Influencing Machine Unlearning": Euro S&P 22'

"The Unlearning Problem(s)": Meta

Service

Reviewer: Euro S&P (2022), ICLR (2025)

Subreviewer: IEEE S&P (2024), CCS (2023), Neurips (2022)

Panel: Neurips 2023 Unlearning Competition