

Anvith Thudi

anvith.com

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Education

University of Toronto

Ph.D. in Computer Science

Toronto, ON, Canada

Sep. 2022 - ongoing

- Advisors: Nicolas Papernot and Chris Maddison

University of Toronto

B.Sc in Mathematics, Spent Fall 2020 in Engineering Science

Toronto, ON, Canada

Sep. 2020 - May 2022

- GPA: 3.92/4.0

Simon Fraser University

Concurrent Studies Student (attended while in highschool)

Burnaby, BC, Canada

Sep. 2017 - May 2020

- GPA: 4.09/4.33

Awards and Honours

2023 Canada Graduate Scholarship-Doctoral: NSERC

- *declined due to Vanier*

2023 Vanier Canada Graduate Scholarship: NSERC

- *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

- *Top 88 highschool students in Canada*

Publications

Conference Proceedings

"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

"Gradients Look Alike: Sensitivity is Often Overestimated in DP-SGD": **Anvith Thudi**, Hengrui Jia, Casey Meehan, Ilia Shumailov, Nicolas Papernot

"Training Private Models That Know What They Don't Know": *Stephan Rabanser, Anvith Thudi, Abhradeep Thakurta, Krishnamurthy Dvijotham, Nicolas Papernot*

"Selective Classification via Neural Training Dynamics": *Stephan Rabanser, Anvith Thudi, Kimia Hamidieh, Adam Dziedzic, Nicolas Papernot*

"Bounding Membership Inference": *Anvith Thudi, Ilia Shumailov, Franziska Boenisch, 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

"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)

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