Connor Wagaman

https://cwagaman.com | wagaman@bu.edu

EDUCATION

LDUCATION	
Boston University	Boston, MA
Ph.D. student in Computer Science	Started Sep. 2022
 Advised by professors Marco Gaboardi and Adam Smith. Interested in data privacy (e.g 	., differential privacy).
Harvard University	Cambridge, MA
• S.M. in Computer Science (advanced standing)	Sep. 2018 – May 2022
• A.B. in Computer Science (cum laude in field; highest honors in Computer Science)	Sep. 2018 – May 2022
• Thesis: Finite-Precision Arithmetic Isn't Real: The Impact of Finite Data Types on Effort	rts to Fulfill Differential
Privacy on Computers. Advised by Professor Salil Vadhan.	
Concord High School	Wilmington, DE
	Aug. 2014 – June 2018
RESEARCH	
Boston University – Differential Privacy (DP)	Boston, MA
PhD Student – Professors Adam Smith and Marco Gaboardi	Sep. 2022 – present
Harvard University – Differential Privacy (DP)	Cambridge, MA
Undergraduate Researcher – Professor Salil Vadhan	Feb. 2021 – Aug. 2022
University of Vermont – Secure Multiparty Computation (MPC)	Remote work
NSF REU – Professors Joseph Near and Christian Skalka	May – Aug. 2020
TEACHING	
Boston University CS 330: Introduction to Analysis of Algorithms	Boston, MA
Teaching Fellow – write problem sets, teach discussion sections, hold office hours	Sep. – Dec. 2023
Harvard CS 208: Applied Privacy for Data Science	Cambridge, MA
Teaching Fellow – assisted with problem set design, graded problem sets, held office hours	Jan. – May 2022
Harvard CS 20: Discrete Mathematics for Computer Science	Cambridge, MA
Teaching Fellow – provided some in-class instruction, graded problem sets, held office hours	Jan. 2020 – May 2021
Harvard CS 50: Introduction to Computer Science	Cambridge, MA
Course Assistant – led office hours and tutorials to support the 800-plus students in the course	Aug. – Dec. 2019
AmeriCorps Member	Wilmington, DE
Summer Learning Collaborative (SLC) Reading Corps	May – Aug. 2018

PAPERS (authors alphabetical)

Conferences

• Widespread Underestimation of Sensitivity in Differentially Private Libraries and How to Fix It. Silvia Casacuberta, Michael Shoemate, Salil Vadhan, Connor Wagaman.

ACM CCS '22. Preliminary version at the TPDP 2022 workshop (spotlight talk). [CCS] [arXiv]

Workshops

- Time-Aware Projections: Truly Node-Private Graph Statistics under Continual Observation.
 Palak Jain, Adam Smith, Connor Wagaman.
 Preliminary version at the TPDP 2023 workshop (poster). In submission.
- Augmenting Fairness with Welfare: A Framework for Algorithmic Justice.
 Sílvia Casacuberta, Isaac Robinson, Connor Wagaman.
 Preliminary version at the 2023 European Workshop on Algorithmic Fairness (in-depth talk).

Senior Thesis

• Finite-Precision Arithmetic Isn't Real: The Impact of Finite Data Types on Efforts to Fulfill Differential Privacy on Computers.

Connor Wagaman.

Senior thesis, Harvard University (highest honors). Advised by Professor Salil Vadhan.

TALKS and PRESENTATIONS

- Time-Aware Projections: Truly Node-Private Graph Statistics under Continual Observation
 - o Northeastern University Theory Seminar, March 2024
 - Boston University Algorithms and Theory Seminar, March 2024
 - o Boston-Area Retreat for the Collaborative Agreement with the US Census Bureau, September 2023
- Augmenting Fairness with Welfare: A Framework for Algorithmic Justice
 - Harvard Bridging Privacy Working Group, August 2023 (joint with Sílvia Casacuberta, Isaac Robinson)
- Widespread Underestimation of Sensitivity in Differentially Private Libraries and How to Fix It
 - o Northeastern University NDS2 Seminar, April 2023 (joint with Sílvia Casacuberta)
 - Boston University Security Seminar, December 2022
 - o ACM CCS '22, November 2022 (joint with Sílvia Casacuberta)
 - o TPDP 2022 workshop at ICML 2022, July 2022 (spotlight talk)
 - Harvard Privacy Tools DP Seminar, May 2022 (joint with Sílvia Casacuberta)

SERVICE

Organizer

Boston-Area Differential Privacy Reading Group

Boston, MA

Aug. 2023 - present

Boston University Algorithms and Theory Seminar

Boston, MA

Student Co-organizer

Jan. 2023 - present

AWARDS

- Boston University Hariri Institute Graduate Student Fellow. July 2023 present
- Boston University Chair's Fellowship. August 2022
- Google Bug Hunters Honorable Mention, for results in "Widespread Underestimation of Sensitivity in Differentially Private Libraries and How to Fix It". July 2022