
EDUCATION

PhD in Computer Science, Cornell Tech	2021-Present
Research in applied cryptography. Advised by Thomas Ristenpart .	
BCS in Computer Science, University of Waterloo	2016-2021

TALKS

Building the Next Generation of AEAD

Mihir Bellare, Shay Gueron, Viet Tung Hoang, [Sanketh Menda](#), Julia Len, and Thomas Ristenpart
Real World Crypto 2024 — forthcoming

Flexible Authenticated Encryption

[Sanketh Menda](#), Julia Len, Viet Tung Hoang, Mihir Bellare, and Thomas Ristenpart
NIST Workshop on Block Cipher Modes of Operation 2023 — snkth.com/talks/nist2023

Ask Your Cryptographer if Context-Committing AEAD Is Right for You

Mihir Bellare, John Chan, Paul Grubbs, Viet Tung Hoang, [Sanketh Menda](#), Julia Len, Thomas Ristenpart, and Phillip Rogaway
Real World Crypto 2023 — snkth.com/talks/rwc2023

PAPERS

"Is Reporting Worth the Sacrifice of Revealing What I Have Sent?":

Privacy Considerations When Reporting on End-to-End Encrypted Platforms

Leijie Wang, Ruotong Wang, Sterling Williams-Ceci, [Sanketh Menda](#), and Amy X. Zhang
SOUPS 2023 — snkth.com/papers/soups2023

Context Discovery and Commitment Attacks: How to Break CCM, EAX, SIV, and More

[Sanketh Menda](#), Julia Len, Paul Grubbs, and Thomas Ristenpart
Eurocrypt 2023 — snkth.com/papers/eurocrypt2023

Computations with Greater Quantum Depth Are Strictly More Powerful (Relative to an Oracle)

Matthew Coudron and [Sanketh Menda](#)
STOC 2020 — snkth.com/papers/stoc2020

Oracle Separations for Quantum Statistical Zero-Knowledge

[Sanketh Menda](#) and John Watrous
arXiv preprint 2018 — snkth.com/papers/arxiv2018

EXPERIENCE

Graduate Research, Cornell Tech	2021-Present
Leading a project on designing safer cryptographic libraries for encrypting data.	
Contributing to projects on designing more practical authenticated encryption schemes	
Led a project on analyzing commitment security of AEAD, resulting in Eurocrypt and RWC talks.	
Summer Associate, Trail of Bits	May 2023-Aug 2023
Created documentation on a modern zero-knowledge proof construction (IPA).	
Contributed to cryptography audits, from reviewing code to discussing findings.	
Security Developer Co-op, ISARA Corporation	(multiple)
Improved in-repo tooling to ensure correctness of post-quantum TLS implementation.	Sep 2020-Dec 2020
Improved external tooling to test correctness of post-quantum TLS implementation.	Jan 2020-Apr 2020
Improved external tooling to test correctness of post-quantum crypto implementations.	May 2019-Aug 2019

Undergraduate Researcher, Institute for Quantum Computing
Building quantum algorithms to solve problems in topology.
Exploring the mathematics of quantum measurements.
Studying the limits of restricted classes of quantum interactive proofs.

(multiple)
Sep 2018-Dec 2018
Jan 2018-Apr 2018
May 2017-Aug 2017

PROGRAMMING

I am comfortable programming in Rust, Go, C++, Python, and (if it comes to it) C and asm.
I have contributed [privacy features to Firefox](#), and recently released [a rust package](#) for AMFs.

AWARDS

Cornell Tech Outstanding TA Award	2022
Cornell University Fellowship	2021-2022
Waterloo Faculty of Mathematics Scholarship	2017-2021
Waterloo President's Research Award	2018
Waterloo President's Scholarship of Distinction	2017

TEACHING

Teaching Assistant for Cornell CS 5830 Cryptography	Spring 2023
Teaching Assistant for Cornell CS 5830 Cryptography	Spring 2022