

Matthew Gregoire

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EDUCATION

UNC CHAPEL HILL

PH.D. IN COMPUTER SCIENCE

Aug. 2021 - May 2026

M.S. IN COMPUTER SCIENCE

Dec 2023

B.S. IN COMPUTER SCIENCE

B.S. IN MATHEMATICS

May 2021

Cum. GPA: 3.98 / 4.0

Dean's List (All semesters)

NORTH CAROLINA SCHOOL OF SCIENCE AND MATH

May 2017 | Durham, NC

Cum. GPA: 5.54 / 4.0

LINKS

Website

GitHub: [MatthewGregoire42](#)

LinkedIn: [MatthewGregoire](#)

COURSEWORK

GRADUATE

Logical Foundations

Cryptography

Computer Security

Privacy Enhancing Technologies

Algorithms

UNDERGRADUATE

Software Engineering

Quantum Computing

Operating Systems

CS Education Research

SKILLS

PROGRAMMING

Languages:

Python • Rust • Java • C • C++

TypeScript • JavaScript

Verilog • MATLAB

Tools:

\LaTeX • Bash • Jupyter • Git

SQL • MongoDB • ReactJS

Firebase • Kubernetes • Coq

numpy • matplotlib • qiskit

OTHER

Play Chess and Go casually.

Can solve a Rubik's cube in under fifteen seconds.

EXPERIENCE

GRADUATE TECHNICAL INTERN | KALEIDO

Summer 2025

- Identified and patched critical security errors in a central bank digital currency scheme proposed by researchers at UC Berkeley.
- Formally modeled and verified the security of three privacy domains in the Linux Foundation's Paladin project.
- Wrote a whitepaper describing Paladin.

GRADUATE TECHNICAL INTERN | CISCO

Summer 2022

In an agile development team, worked to sunset a legacy data storage system and migrate to a new platform.

- Implemented, tested, and documented changes to the codebase.
- Updated bash scripts and managed resources in kubernetes.
- Wrote and documented JavaScript for production.

TEACHING ASSISTANT | UNC CS DEPARTMENT

Fall 2018 – Spring 2021, Fall 2023

Assisted 1,000 students across four undergraduate courses: intro programming, discrete structures, computer organization, and cryptography.

- Worked to design the syllabus and electronics labs for Computer Organization
- Wrote and graded questions for quizzes and final exams
- Helped students understand concepts and assignments in office hours

PUBLICATIONS

Gregoire, M., Pierce, M., & Eskandarian, S. (2025). Onion Franking: Abuse Reports for Mix-Based Private Messaging. *Network and Distributed Systems Security*, 2025.

Gregoire, M., Thomas, R., & Eskandarian, S. (2024). CheckOut: User-Controlled Anonymization for Customer Loyalty Programs. *Proceedings on Privacy Enhancing Technologies Symposium*, 2024(3) (pp. 224–245).

Ryan, K., Gregoire, M., & Sturton, C. (2023, October). SEIF: Augmented Symbolic Execution for Information Flow in Hardware Designs. In *Proceedings of the 12th International Workshop on Hardware and Architectural Support for Security and Privacy* (pp. 1-9).

Deutschbein, C., Meza, A., Restuccia, F., Gregoire, M., Kastner, R., & Sturton, C. (2022). Toward hardware security property generation at scale. *IEEE Security & Privacy*, 20(3), 43-51.

RECOGNITIONS

- 2020 Completion of Qiskit Global Summer School in Quantum Computing
- 2019 Best Use of BlockStack API, PackHacks Hackathon
- 2017 NC State Champion, David Ricardo Economics Challenge
- 2017 Bowman-Brockman Scholar, NCSSM
- 2015 First Place, FIRST Robotics North Carolina Regional