

# Matthew Gregoire

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## EDUCATION

### UNC CHAPEL HILL

PH.D. IN COMPUTER SCIENCE

Dec 2023 - Present

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 | Cisco

May 2022 - August 2022

Worked on a software development team in an industry setting to transition a legacy system to a new platform.

- Implemented, tested, and documented changes to the codebase
- Documented a legacy API interface
- Saw agile software engineering from an industry perspective

### 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.

## PERSONAL PROJECTS

### 8-BIT COMPUTER

Summer 2019

Built a fully programmable 8-bit computer using integrated circuits, wires, and breadboards, and designed a corresponding assembly language. Based on tutorials by Ben Eater. Full project description on GitHub.

## 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