CLIFTON PAUL ROBINSON

CONTACT INFORMATION

Northeastern University
Boston, MA 02118

Email: robinson.c@northeastern.edu
Website: https://cprob.com/

RESEARCH INTERESTS

- Cybersecurity
- Cyber Law & Policy, specifically in regards to the United States
- Network Security
- Deep Learning-based Security Solutions
- Adversarial Jamming Attacks & Mitigation
- Computer Science Learning Integration in K-12 Education

EDUCATIONAL BACKGROUND

BRIDGEWATER STATE UNIVERSITY, Bridgewater, MA USA   2010 - 2014

B.S. in Computer Science & Mathematics
Thesis: *"The Key to Cryptography: The RSA Algorithm"*
Advisors: Prof. Jacqueline Anderson, Prof. Margaret Black
GPA: 3.723 (*Magna Cum Laude*)

NORTHEASTERN UNIVERSITY, Boston, MA USA   2014 - PRESENT

Ph.D. in Cybersecurity / M.S. in Cybersecurity
Advisor: Prof. Tommaso Melodia
Research Area: Wireless Networks & Deep Learning Applications
KCCIS Graduate Fellowship

WORK EXPERIENCE

Doctoral Student (Ph.D.) / Graduate Research Assistant   2021 - PRESENT
Institute for the Wireless Internet of Things, Boston, MA USA

Research Areas: Wireless Network Security, Deep Learning
   Implementations, Communication Security.
Supervisor(s): Prof. Tommaso Melodia, Dr. Salvatore D'Oro

Graduate Teaching Assistant
JAN. 2020 - AUG. 2020

Khoury College of Computer Science, Boston, MA USA

   Courses: CS 3700 - Networks and Distributed Systems
              CS 5700 - Fundamentals of Computer Networking.
   Supervisor(s): Prof. Alden Jackson (CS 3700)
                    Prof. Prasad Saripalli (CS 5700)

Cybersecurity Research Consultant
AUG. 2019 - JUNE 2020

Global Resilience Institute at Northeastern University, Boston, MA USA

   Assisted and consulted on cybersecurity issues on their Critical
      Infrastructure Network (CINet) Project.
   Supervisor: Robert Knake

Undergraduate Research Assistant
JUNE 2017 - AUG. 2017

Undergraduate Research Center, Bridgewater, MA USA

   Research Area: Mathematical cryptography in public-key encryptions,
      specifically the RSA algorithm.
   Adrian Tinsley Program (ATP) for Undergraduate Research Grant
      Recipient.
   Supervisor: Prof. Jacqueline Anderson

RESEARCH PROJECTS

MITRE Corporation & Colosseum WIoT Joint Project
MAY 2022 - PRESENT

The Institute for the Wireless Internet of Things & The MITRE Corporation

   Project Description: Security-driven solutions utilizing the Colosseum
      Wireless Network Emulator.
   Supervisor(s): Prof. Tommaso Melodia, Dr. Pedram Johari

Intelligence Advanced Research Projects Activity (IARPA) Program
DEC. 2021 - PRESENT

The Institute for the Wireless Internet of Things & AiRANACULUS®

   Project Description: Focused on identifying unexpected radio frequency
      (RF) transmissions to detect attempted data breaches.
   Supervisor(s): Prof. Tommaso Melodia, Prof. Francesco Restuccia

CINet - A Critical Infrastructure Network
AUG. 2019 - JUNE 2020

Global Resilience Institute at Northeastern University

   Project Description: Creating and providing a separate, secure

communications network for critical infrastructure owners and
operators.
Supervisor: Robert Knake

Undergraduate Research Assistant
Undergraduate Research Center, Bridgewater, MA USA

JUNE 2017 -
AUG. 2017

Research Area: Mathematical cryptography in public-key encryptions,
specifically the RSA algorithm.
Adrian Tinsley Program (ATP) for Undergraduate Research Grant
Recipient.
Supervisor: Prof. Jacqueline Anderson

PUBLICATIONS

Any paper currently under review for conferences and workshops will be updated upon
acceptance or approval.

1. Robinson, Clifton Paul. (2018). The Key to Cryptography: The RSA Algorithm. In BSU
    Honors Program Theses and Projects. Item 268. Available at:
    https://vc.bridgew.edu/honors_proj/268

TALKS & PRESENTATIONS

The Key to Cryptography: The RSA Algorithm
National Conference on Undergraduate Research 2018 (NCUR), Edmond, OK

April 2018

Poster Presentation

Cyber Law: Past, Present, and Future
Massachusetts Statewide Undergraduate Research Conference

April 2018

Oral Presentation

TEACHING & LECTURES

Academic Lecturer
Northeastern University

Spring 2023*

Course: CY 2550 - Foundations of Cybersecurity
Description: The high-level goal of this course is to introduce the
breadth of topics in the cybersecurity space to students, and begin

training them to apply these ideas through an understanding of defensive mechanisms and attacker strategies.

Head Teaching Assistant   Spring 2020
Northeastern University

Course: CS 3700 - Networks and Distributed Systems
Assisted the professor in grading and creating homework assignments
   and projects.

Guest Lectures
CS 3700 - Networks and Distributed Systems   Spring 2002
   - The Physical Layer
   - The Data Link Layer
   - Bridging
   - Intra-Domain and Inter-Domain Routing
   - The Transport Layer

ACADEMIC MEMBERSHIPS
1. Upsilon Pi Epsilon
2. Pi Mu Epsilon

HONORS & AWARDS
1. **Bridgewater State University**
   a. Dean's List (All Semesters)
   b. Commonwealth Honors
   c. Computer Science Departmental Honors
   d. Mathematics Departmental Honors
   e. Award for Student Excellence
2. **Northeastern University**
   a. Academic Fellowship Recipient

SKILLS

Programming:	**Soft Skills:**
Python	Leadership
Java	Critical Thinking
TensorFlow	Teamwork
LaTeX	Communication