Room 101C, McGlothlin Street Hall, Williamsburg, VA 23187

■ nacooper01@email.wm.edu | ★ nathancooper.io | • ncoop57 | ● @ncooper57

Research Interests

Software engineering, machine / deep learning applications for software engineering, information retrieval, and question & answering applications for software engineering.

Education_

College of William and Mary

Williamsburg, VA

Ph.D. IN COMPUTER SCIENCE

2018 - 2023

2015 - 2018

University of West Florida

B.S. IN SOFTWARE ENGINEERING

Pensacola, FL

College of William and Mary

Experience _____

Williamsburg, VA

RESEARCH ASSISTANT

Auburn University

Fall 2018 - Present

Undergraduate Research Assistant

Auburn, AL Summer 2017

University of West Florida

Pensacola, FL

Undergraduate Research Assistant

Fall 2015 - Summer 2018

Honors & Awards

Virginia Space Grant Consortium (VSGC) Fellowship, Researching the application of graph neural

Williamsburg, VA

networks to solve software engineering tasks. (on going)

3rd Place, UWF's CodeFest: Developed a multiple player android app named Discoverers to inspire people to learn more about their planet's geography.

Pensacola, FL

2017 Outstanding Student Award, at UWF

Pensacola, FL

Journal Publications

• N. Wilde, B. Eddy, K. Patel, **N. Cooper**, V. Gamboa, B. Mishra, K. Shah, "Security for Devops Deployment Processes: Defenses, Risks, Research Directions," In International Journal of Software Engineering & Applications (IJSEA), Nov. 2016

Conference Publications

- N. Cooper, C. Bernal-Cárdenas, O. Chaparro, K. Moran, and D. Poshyvanyk, "It Takes Two to Tango: Combining Visual and Textual Information for Detecting Duplicate Video-Based Bug Reports," in Proceedings of the 43nd IEEE/ACM International Conference on Software Engineering (ICSE'21), Virtual (originally Madrid, Spain), 2021.
- A., Mastropaolo, S., Scalabrino, **N. Cooper**, D., Palacio, D., Poshyvanyk, R., Oliveto, and Bavota, G., "Studying the Usage of Text-To-Text Transfer Transformer to Support Code-Related Tasks," in Proceedings of the 43nd IEEE/ACM International Conference on Software Engineering (ICSE'21), Virtual (originally Madrid, Spain), 2021.
- C. Bernal-Cárdenas, N. Cooper, K. Moran, O. Chaparro, A. Marcus, and D. Poshyvanyk, "Translating Video Recordings of Mobile Apps into Replayable Scenarios," in Proceedings of the 42nd IEEE/ACM International Conference on Software Engineering (ICSE'20), Virtual (originally Seoul, South Korea), 2020. (20% acceptance rate)
- B. Eddy, N. Wilde, **N. Cooper**, B. Mishra, V. Gamboa, K. Shah, A. Deleon, N. Shields, "A Pilot Study on Introducing Continuous Integration and Delivery into Undergraduate Software Engineering Courses," In Proceedings of the IEEE 30th Conference on Software Engineering Education and Training (CSEE&T'17), Savannah, Georgia, 2017
- B. Eddy, N. Wilde, **N. Cooper**, B. Mishra, V. Gamboa, K. Patel, K. Shah, "CDEP: Continuous Delivery Educational Pipeline," In Proceedings of the ACM SouthEast Conference (SE'17), Kennesaw, Georgia, 2017

Teaching Experience _____

CS420/520 Neural Networks for Machine Learning (Undergraduate & Graduate)

TEACHING ASSISTANT: GRADED ASSIGNMENTS AND HOSTED OFFICE HOURS

CS435 Software Engineering (Undergraduate)

INVITED LECTURER AND PROJECT LEAD

TEACHING ASSISTANT: GRADED ASSIGNMENTS AND HOSTED OFFICE HOURS

CS241 Data Structures (Undergraduate)

TEACHING ASSISTANT: GRADED ASSIGNMENTS AND HOSTED OFFICE HOURS

ACM Club's Machine Learning Workshop

PRESENTER

Computer Science Tutor

ASSISTED STUDENTS WITH VARIOUS PROGRAMMING LANGUAGES AND PRESENTED AND ORGANIZED FRESHMAN LEVEL

WORKSHOPS FOR STUDENTS IN BEGINNER PROGRAMMING AND DATABASE CLASSES

College of William and Mary

Fall 2019, Spring 2020

College of William and Mary

Fall 2019

College of William and Mary

Fall 2018, Spring 2019

University of West Florida

Fall 2016, Spring 2017

University of West Florida

Spring 2016 - Fall 2017

References

Associate Professor Denys Poshyvanyk (Advisor)

CLASS OF 1953 TERM DISTINGUISHED ASSOCIATE PROFESSOR

• Position: Associate Professor of Computer Science

Email: denys@cs.wm.eduPhone: (757) 221-3476

College of William & Mary