

# Cybersecurity @ CNU

COVA CCI Annual Update and Stakeholder Meeting

31 July 2024

Dr. Anton Riedl ([riedl@cnu.edu](mailto:riedl@cnu.edu))

Department of Physics, Computer Science and Engineering



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# Agenda

- New Cyber Faculty
- Student Numbers
- Program Updates
- Student Engagement
- Outbound Success
- CCI Impact



# New Cyber Faculty



**Yan Lu (Fall 23)**

Machine/Deep Learning,  
Image Processing, Remote Sensing,  
Physics-informed Machine  
Learning, Trustworthy AI



**Abhishek Phadke (Fall 24)**

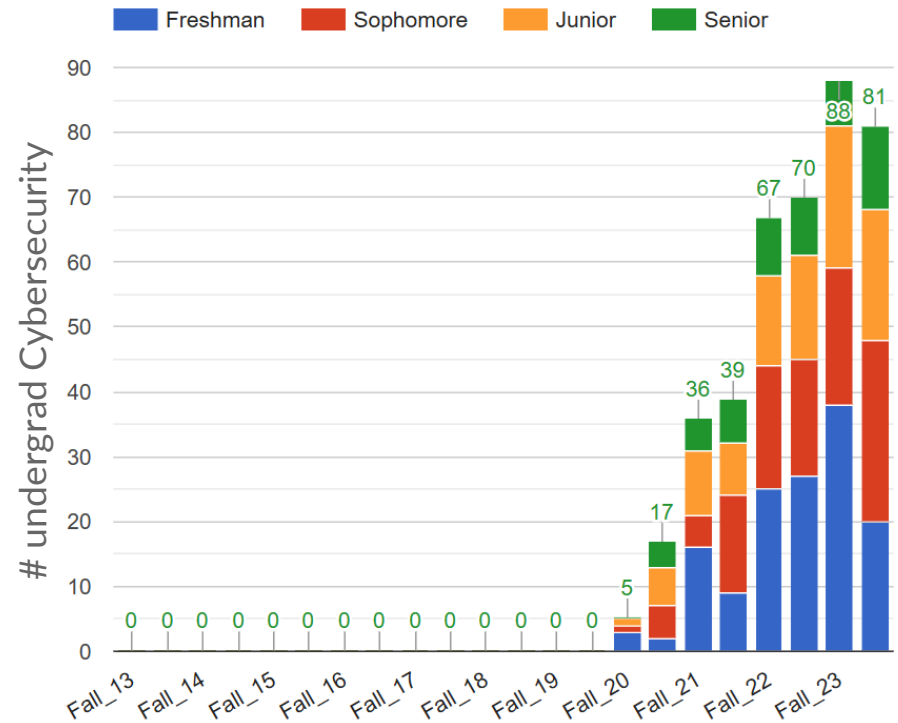
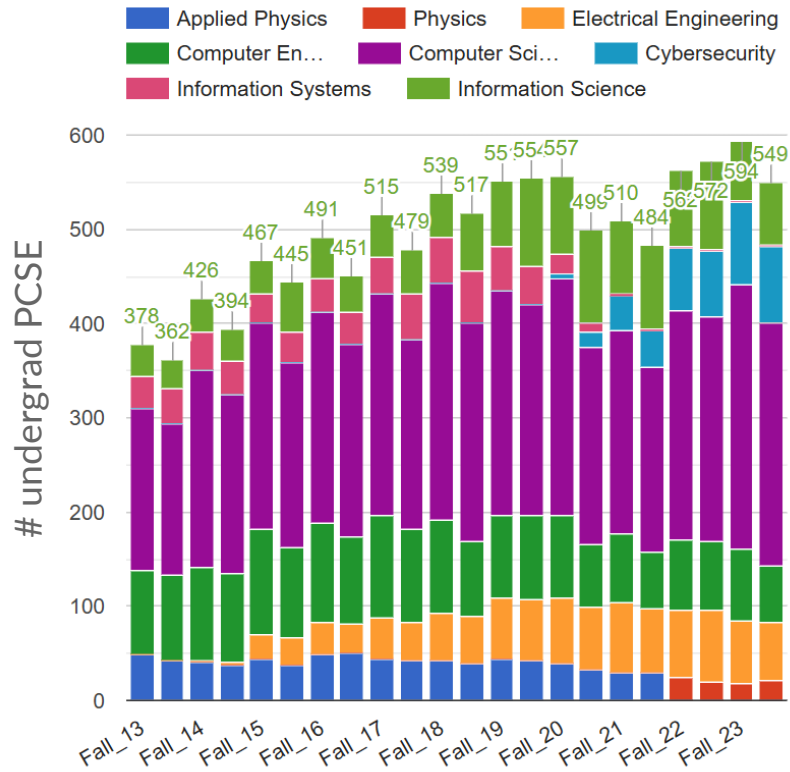
Resilience of FANETs,  
Cyber Physical Systems,  
Blockchain Applications,  
Energy and Smart Grids, IoT



**Ayan Roy (Fall 24)**

Security and Privacy in Intelligent  
Transportation Systems,  
IDS/IDPS, In-vehicle Networks,  
Cyber-Physical Systems Security,  
IoT

# Number of Undergraduates (PCSE & Cybersecurity)



# Program Updates

- Started Minor in Cybersecurity in Fall 2023 (Major started in Fall 2020)
- 49 students registered for CYBR 198 in the Fall
- Working on adding electives to core, and expanding graduate level cybersecurity courses
- Focus on aligning curriculum with NSA/DHS CAE
  
- New VM/GPU servers for cybersecurity & data science
- *Project Ares* acquired using CCI infrastructure grant for cyber student hands on activities
- *New Science and Engineering Research Center* will provide additional spaces



# Student Engagement

- Undergraduate research (including CCI programs)
- Regular presentations at monthly ISC2 meetings
- Competed in MACCDC for 6th year
- Hosted Cyberforge 2023 at CNU; will host again in 2025
- Coastal Virginia Cybersecurity Student Association



## CYBERFORGE 2025

Christopher Newport University

March 22-23, 2025

8am - 4pm



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# Outbound Success

## Graduates Statistics (2023 Careers Outcome Report)

- 100% employment within 6 months after graduation
- \$82,500 median salary

## Employers (internships, fulltime)

- Mix of job and company types
  - Software engineer, penetration tester, business analyst, cybersecurity researcher, investigative analyst, ...
  - Analytical Services and Materials, Booz Allen, Ferguson, Frontier Technologies, Mission Technologies, Psionic Technologies, Microsoft, MITRE, NCIS, Northrop Grumman, Tribal Tech, ZenPoint Solutions, ...
- Good number of students stay local



# CCI Impact

## Faculty

- Funding (Navigating Cybersecurity Compliance Challenges for the Maritime Industry in Southeast Virginia, NSF CC\* Infrastructure grant)
- Participation (COVA SHARE Faculty Coordinator/Director, Cyberforge)
- Networking

## Students

- Undergraduate research
- Student engagement (conferences, professional meetings, student associations)
- Networking

