JAMES PAVUR

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EDUCATION

Oxford University, Cybersecurity Center for Doctoral Training,　　　　　**Oxford, United Kingdom**
PhD Researcher　　　　　　　　　　　　　　　　　　　　　　　　*Expected Graduation: September 2021*
Working Thesis Title: *Securing New Space: On Satellite Cybersecurity*

Georgetown University, Walsh School of Foreign Service,　　　　　　　　**Washington, DC**
Bachelor of Science in Foreign Service: Science, Technology, and International Affairs　*Graduated: December 2016*
Dean's Medal (Valedictorian) | GPA: 3.971 | Phi Beta Kappa

PROFESSIONAL EXPERIENCE

Telos Corporation　　　　　　　　　　　　　　　　　　　　　　　　**Washington, DC**
Information Assurance Intern　　　　　　　　　　　　　　　　　*May 2017 – September 2017*
- Audited industrial and building control systems devices against NIST 800-53 standards for GSA's Public Buildings Service
- Created software application to reduce the time to document audit results from 5+ hours to under ten minutes

Students of Georgetown, Incorporated　　　　　　　　　　　　　　　**Washington, DC**
Director of Information Security　　　　　　　　　　　　　　　　*April 2016 – January 2017*
- Directed incident response to a destructive cyberattack and spearheaded subsequent forensic investigation
General Manager of IT　　　　　　　　　　　　　　　　　　　　*March 2015 – April 2016*
- Led a team of 17 professionals providing software development and IT services at the world's largest student-run nonprofit
Senior Developer　　　　　　　　　　　　　　　　　　　　　*February 2014 – February 2015*

Booz Allen Hamilton - Defense and Intelligence Group　　　　　　**Annapolis Junction, MD**
Summer Intern　　　　　　　　　　　　　　　　　　　　　　　*June 2016 – August 2016*
- Discovered 9 previously unknown vulnerabilities in a popular Smart Lock and Smart Home "Internet of Things" system
- Reverse-engineered embedded hardware and Android applications for vulnerability analysis and security research

United States Postal Service, Office of the Inspector General - Computer Crimes Unit　　**Alexandria, VA**
Student Cooperative　　　　　　　　　　　　　　　　　　　　*May 2015 – September 2015*
- Performed forensic acquisitions and investigations of evidentiary media relevant to ongoing criminal investigations

SELECTED PUBLICATIONS

- Pavur, James, and Casey Knerr. "GDPArrrrr: Using Privacy Laws to Steal Identities." In *BlackHat USA '19*. Las Vegas, NV, 2019.
- Pavur, James, Daniel Moser, Martin Strohmeier, Vincent Lenders, and Ivan Martinovic. "A Tale of Sea and Sky: On the Security of Maritime VSAT Communications." To Appear in 2020 IEEE Symposium on Security and Privacy (S&P). Oakland, CA, 2020.
- Pavur, James, and Ivan Martinovic. "The Cyber-ASAT: On the Impact of Cyber Weapons in Outer Space." In 11th International Conference on Cyber Conflict (CyCon), 900:1–18. IEEE, 2019.
- Pavur, James, Daniel Moser, Vincent Lenders, and Ivan Martinovic. "Secrets in the Sky: On Privacy and Infrastructure Security in DVB-S Satellite Broadband." In Proceedings of the 12th Conference on Security and Privacy in Wireless and Mobile Networks, 277–284. WiSec '19. New York, NY, USA: ACM, 2019.

ACTIVITIES AND AWARDS

- **Eagle Scout** (*2013*)
- **Rhodes Artificial Intelligence Laboratory** applying novel AI techniques to interdisciplinary challenges (*Fall 2017 – Present*)
- **Hackathon Competitor** including 1st place at HoyaHaxa with a brain-computer interface for paralysis victims (*Spring 2016*) and 1st place out of more than 500 competitors with a distributed threat intelligence platform at EOS London (Fall 2018)

TECHNICAL SKILLS

- **Proficient in**: Python, PHP, HTML, Javascript, CSS, JQuery, Java, SQL, and C/C++
- **Experienced with:** Wireshark, Volatility Framework, Forensic Toolkit, IDA Pro, Metasploit, Nexpose, Linux Systems Administration, Atlassian collaboration tools (JIRA, Confluence, Stash), and Agile Development