

ANDREW MORIN

Research Assistant Professor
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EDUCATION

Ph.D. Computer Science, University of Tulsa 2023
Advisor: Prof. Tyler Moore
Dissertation: “Security Shocks and Cryptocurrency Market Manipulations”

M.S. Computer Science, University of Tulsa 2021

B.S. Computer Science, University of New Mexico 2019

PROFESSIONAL EXPERIENCE

Research Assistant Professor — School of Cyber Studies, The University of Tulsa
2023 - Present

Energy Fellow — Center for Energy Studies, The University of Tulsa
2024 - Present

Research Assistant — Security Economics Lab, The University of Tulsa
2019 - 2023

EXTERNAL FUNDING

Gas Pipeline Security Pilot Study — U.S. Army Engineer Research and Development Center
Role: Senior Personnel. Duration: Jan, 2023 - Dec, 2024. Award Amount: \$3,750,000

VR for Smart Installation Experimentation and Security Analysis — U.S. Army Engineer Research and Development Center
Role: Senior Personnel. Duration: Jan, 2023 - December, 2024. Award Amount: \$3,750,000

Adaptive OT Threat Analysis Technology — U.S. Army Engineer Research and Development Center
Role: Research Assistant. Duration: Sep, 2021 - Dec, 2022. Award Amount: \$2,200,000

Examining the Impact of Cybersecurity Shocks on Cryptocurrency Platforms — NSF SaTC-BSF
Role: Research Assistant. Duration: Aug, 2019 - Aug, 2021. Award Amount: \$445,792

TEACHING EXPERIENCE

Introduction to Cyber Security (CYB-3073) Fall 2023
School of Cyber Studies, The University of Tulsa

Analytics Programming (QM-7103) School of Finance and Operations Management, The University of Tulsa	Fall 2021, Fall 2022
Blockchain and Fintech Security (CYB-7863) School of Cyber Studies, The University of Tulsa	Spring 2022, Summer 2022, Summer 2023, Summer 2024
Introduction to R Lab (Open to CYB PhD Students) The University of Tulsa	Spring 2024

RESEARCH INTERESTS

Cybersecurity Cost Modeling, Cryptocurrencies, Security Economics, Critical Infrastructure Security, Distributed Ledger Technology

STUDENTS ADVISED

Vincent Gonzales (PhD Cyber Studies) Funding: U.S. Army ERDC Projects	Fall 2023 - Current
Wellington Gwavava (PhD Cyber Studies) Funding: Cyber Fellows	Fall 2023 - Current
Bruno Kweka (PhD Cyber Studies) Funding: Presidential Scholarship	Fall 2023 - Current

REFEREED CONFERENCE PAPERS

Andrew Morin, Tyler Moore. How Cryptocurrency Exchange Interruptions Create Arbitrage Opportunities. In *2023 IEEE European Symposium on Security and Privacy Workshops (EuroS&PW)*, June 2023

Andrew Morin, Tyler Moore. Towards Cost-Balanced Intrusion Detection in OT Environments. In *IEEE Conference on Communications and Network Security Cyber Resilience Workshop*, October 2022

Andrew Morin, Tyler Moore, Eric Olson. Breaking the Stablecoin Buck: Measuring the Impact of Security Breach and Liquidation Shocks. In *21st Workshop on the Economics of Information Security (WEIS)*, June 2022

Andrew Morin, Marie Vasek, Tyler Moore. Detecting Text Reuse in Cryptocurrency Whitepapers. In *IEEE International Conference on Blockchain and Cryptocurrency, ICBC 2021, Sydney, Australia, May 3-6, 2021, pages 1-5*. IEEE, May 2021

OTHER PAPERS

Alex Howe, Andrew Morin, Mauricio Papa, Tyler Moore. A cost-sensitive approach for managing intrusion alerts in OT environments. Under Review at *The 19th International Conference on Critical Information Infrastructures Security*

Andrew Morin, Tyler Moore, Eric Olson. Breaking the Stablecoin Buck: The Attenuating Impact of Security Breach Shocks at Cryptocurrency Exchanges Under Review at *Journal of Cyber Security*

Andrew Morin, Tyler Moore. The Impact of Cryptocurrency Spot Price Volatility on Derivative Markets. Under Review at *Journal of Banking and Finance*

Vince Gonzales, Andrew Morin, Tyler Moore. Interview Framework for Eliciting Cyber Security Control Requirements and Benefits of Secure Smart Installations. In Preparation

Wellington Gwavava, Andrew Morin. A Comparison of Security Operation Center Performance Metrics and Supervisory Evaluations. In Preparation

JOURNAL REVIEWER

Management Science, International Review of Financial Analysis, Journal of Cyber Security

REFERENCES

Tyler Moore, Tandy Professor of Computer Science, and Chairperson for School of Cyber Studies, The University of Tulsa, Tulsa, OK 74104,
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Nicolas Christin, Professor of Computer Science, Engineering & Public Policy, and Cylab, Carnegie Mellon University, Pittsburgh, PA 15213,
nicolasc@andrew.cmu.edu

Eric Olson, Associate Professor of Finance, The University of Tulsa, Tulsa, OK 74104,
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Marie Vasek, Assistant Professor of Computer Science, University College London, Gower Street, London WC1E 6BT,
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