Email: zzpolariszz.research@outlook.com
Website: zzpolariszz.github.io
Phone: +44 7470858976
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Endong Liu

Education

PhD @ University of Birmingham, UK 2024 – 2028
Co-supervised by Dr. Pascal Berrang and Prof. Mark Dermot Ryan
Research Interests: Blockchain Forensics, Privacy Enhancing Technologies, and AI for Compliance and Privacy

MSc @ University College London, UK 2021 – 2022
Information Security, Distinction

BSc @ Beijing Jiaotong University, China 2016 – 2020
Computer Science and Technology

Publications

Blockchain Privacy Compliance **Evasion Under Blockchain Sanctions**

Endong Liu, Mark Ryan, Liyi Zhou, Pascal Berrang

Core A* *Proceedings of the ACM Web Conference 2026 (WWW '26)*

A quantitative study of sanctions-evasion behaviour on permissionless blockchains, using the OFAC-sanctioned on-chain mixer Tornado Cash as a case study. The work models on-chain activities and fund-obfuscation patterns following the sanctions and proposes real-time tracking and scoring methods to support practical compliance analysis.

Blockchain Privacy Measurement **Talking Transactions: Decentralized Communication through Ethereum IDMs**

Xihan Xiong, Zhipeng Wang, Qin Wang, **Endong Liu**, Pascal Berrang, William Knottenbelt

Preprint *arXiv Preprint, 2025*

A large-scale empirical analysis of messages embedded in the Ethereum transaction input data field. The study demonstrates that the Ethereum can be also used as a decentralised communication medium.

Grants

Identifying Money Laundering on the Blockchain 2025 – 2026

Co-founder @ Block Forensics Lab / SynapTrack

UK Research and Innovation (UKRI), Innovate UK, CyberASAP Y9 Phase 2, **£59,952**
UK Research and Innovation (UKRI), Innovate UK, CyberASAP Y9 Phase 1, **£12,656**

Building on the research *Evasion Under Blockchain Sanctions*, this project translates academic findings into an AML detection system in decentralised finance. It aims to strengthen financial-crime prevention in the real world. The system combines real-time fund tracking, artificial intelligence and machine learning, transaction analytics, cross-chain transaction monitoring, and explainable risk reports powered by large language models. It helps compliance teams, cryptocurrency exchanges, financial institutions, and regulators identify and investigate suspicious fund flows more efficiently and accurately.

Services

Graduate Teaching Assistant, Module Security & Networks @ University of Birmingham 2024, 2025
Programme Committee Member, Core A* ACM Web Conference 2026
Artifact Evaluation Committee Member, USENIX Workshop on Offensive Technologies 2024
External Reviewer, Core A* USENIX Security Symposium 2025, 2026
External Reviewer, Core A Privacy Enhancing Technologies Symposium 2025
Invited Speaker, Web3 Scholars Conference 2026