

Symposium on Cryptocurrency and Societal Harm

Stanford Internet Observatory
Journal of Online Trust and Safety

Friday, May 13, 2022
Perry Conference Room • Stanford University
<https://pollev.com/cryptoharm>



Agenda

9:00-9:25 **Breakfast and Registration**

9:25 -9:30 **Introductory Remarks**

9:30-9:40 **Welcome Remarks**
Alex Stamos (Director, Stanford Internet Observatory)

9:40-11:00 **Panel 1: Cryptocurrency Crime, Fraud, and Scams**

Moderator: Jeff Hancock, Ph.D. (Harry and Norman Chandler Professor of Communication, Department of Communication, Stanford University)

The Chainalysis 2022 Crypto Crime Report
Ethan McMahon (Economist, Chainalysis)

Fraud Victimization and Help-Seeking Behaviours in an Online Cryptocurrency Community

Andrew Childs, Ph.D. (Lecturer, School of Criminology and Criminal Justice, Griffith University)

Crime and Cryptocurrency in Australian Courts

Aaron Lane, Ph.D. (Senior Lecturer in Law, Graduate School of Business and Law & Senior Research Fellow, RMIT Blockchain Innovation Hub, RMIT University)

Lisanne Adam, LL.M. (Associate Lecturer in Law, Graduate School of Business and Law, RMIT University)

Investigating Cryptocurrency Crimes

Dave Berry (Criminal Investigator, Santa Clara County Office of the District Attorney – REACT Task Force)

Kenneth Rayner, II (Special Agent, U.S. Secret Service)

11:00-11:10 *Break*

11:10-12:15 Panel 2: Regulation, Privacy, and Private Sector Influence

Moderator: Nathaniel Persily, J.D., Ph.D. (James B. McClatchy Professor of Law, Stanford Law School, Stanford University)

The Merger of DeFi and CeFi? Locating Power and Control across Financial Infrastructures

Malcolm Campbell-Verduyn, Ph.D. (Assistant Professor, Department of International Relations and International Organizations, University of Groningen)

Moritz Huetten (Fellow at the Center for Sustainable Economic and Corporate Policy, Darmstadt Business School, Germany)

Central Bank Digital Currencies and External Stakeholders

Sandra Ahmadi (Ph.D. Student, Department of Political Science, University of Washington)

Cross-National Variation in Cryptocurrency Regulation

Eliza R. Oak (Ph.D. Student, Department of Political Science, Yale University)

12:15-1:15 *Lunch*

1:15-2:30 Panel 3: Cryptocurrency and Violent Groups

Moderator: Renee DiResta (Technical Research Manager, Stanford Internet Observatory, Stanford University)

Righteous Currencies in Extreme Ideologies: IS Coins, TrumpCoins and FreedomCoins

Ayşe Deniz Lokmanoglu, Ph.D. (Postdoctoral Fellow, Center for Communication and Public Policy, Department of Communication, Northwestern University)

Rebels and Money: Understanding the Role of Currencies in the Context of Civil Wars

Kamil Klosek, Ph.D. (Post-Doctoral Researcher, Peace Research Center Prague (PRCP), Charles University)

Typologies of Misuse by Extremist and Terrorist Groups and Challenges in Countering It

Hans-Jakob Schindler, Ph.D. (Senior Director, Counter Extremism Project)

Understanding Cryptocurrency Sanctions

Tom Klein (National Security Fellow, Third Way)

2:30-2:45 *Break*

2:45-3:50 Panel 4: Ransomware Payments and Groups

Moderator: Karen Nershi, Ph.D. (Postdoctoral Fellow, Stanford Internet Observatory, Stanford University)

Ransomware: A Tale of Two Markets

Jack Cable (Independent Security Researcher)

Kris Oosthoek (Ph.D. Candidate, Delft University of Technology (TU Delft))

Georgios Smaragdakis, Ph.D. (Professor of Cybersecurity, Delft University of Technology (TU Delft))

The Political Economy of Ransomware Attacks

Karen Nershi, Ph.D. (Postdoctoral Fellow, Stanford Internet Observatory, Stanford University)

Shelby Grossman, Ph.D. (Research Scholar, Stanford Internet Observatory, Stanford University)

The Growth of Third Party Intrusions as Initial Access Vector in Ransomware Attacks

Allan Liska (Senior Intelligence Analyst, Recorded Future)

3:50-4:00 Closing Remarks

Sarah Guo (Partner, Greylock Partners)

4:00-5:00 Reception

Oksenberg Conference Center, 3rd Floor Encina Hall

Media Policy

Our goal is to both facilitate honest conversation while providing a critical need for public transparency on these matters of critical global importance. We have invited several members of the media to attend all portions of our workshop. When the media members are present during the day you should consider your remarks on-the-record. We are asking the journalists who are present at the evening reception to treat it as off-the-record under all circumstances, and if you have a private conversation, such as during a break, you should clearly discuss the terms under which you are having that discussion. All of our invited journalists are well-respected technology reporters and we are glad that they are interested in better informing the public about this important area.

Speaker Bios



Ethan McMahon (ethan.mcmahon@chainalysis.com)
Ethan McMahon is an Economist for Chainalysis where he conducts research on cryptocurrency economics to better understand how digital assets are used and abused. His work focuses on using economic data to uncover investment opportunities and understand how world events impact cryptocurrency markets. Previously, Ethan worked for companies like Euclidean Capital and Bank of America of Merrill Lynch, conducting investment research and analysis for the public and private sector, and managing algorithmically driven portfolios.



Andrew Childs. Dr. Andrew Childs is a Lecturer in the School of Criminology and Criminal Justice at Griffith University. His primary research interests are in the evolution of cybercrime and illicit markets online, cybercultures and online communities, and digital research methods.



Aaron Lane. Dr Aaron Lane is a Senior Lecturer in Law in the Graduate School of Business and Law and a Senior Research Fellow at the RMIT Blockchain Innovation Hub at RMIT University. An Australian Lawyer, Aaron advises on matters involving cryptocurrency as Special Counsel with Duxton Hill. Aaron is currently a visiting scholar at the Mercatus Centre at George Mason University.



Dave Berry, Criminal Investigator, Santa Clara County Office of the District Attorney – REACT Task Force.

Dave Berry is a Criminal Investigator with the Santa Clara County Office of the District Attorney. He has 18 years of law enforcement experience and is currently assigned to the REACT Task Force, which investigates technology-facilitated crimes at a regional level. He is a Task Force Officer with the U.S. Secret Service Cyber Fraud Task Force out of San Francisco, and previously served as an FBI Police Executive Fellow with the National Cyber Investigative Joint Task Force in Washington, D.C. Investigator Berry has taught technology-related investigative techniques at the local and national level and was on the team awarded HTCIA's 2019 Case of the Year for their successful apprehension of multiple suspects responsible for millions of dollars of cryptocurrency theft through SIM swapping.



Ken Rayner, Special Agent, U.S. Secret Service San Francisco Field Office, DATA – Digital Asset Technology Alliance

Ken Rayner is a Special Agent with the U.S. Secret Service San Francisco Field Office. He has 6 years of law enforcement experience and is currently assigned to the Digital Asset Technology Alliance (DATA) which investigates fraud involving cryptocurrencies and non-fungible tokens (NFTs). Ken represents the U.S. Secret Service on the Federal Bureau of Investigation Joint Terrorism Task Force (FBI-JTTF) for San Francisco. Since 2010, Ken has served in the Army National Guard and currently holds the rank of Captain as a member of the California National Guard. Ken received a Master of Arts in International Affairs with a specialization in Security Studies from Boston University in 2015.



Malcolm Campbell-Verduyn. Malcolm Campbell-Verduyn is assistant professor in International Political Economy at the Department of International Relations and International Organization, University of Groningen, as well as Associate Senior Fellow at the Käte Hamburger Kolleg Centre for Global Cooperation Research University of Duisburg-Essen, Germany. He is the editor of *Bitcoin and Beyond: Cryptocurrencies, Blockchains and Global Governance* (Routledge, 2018).



Sandra Ahmadi. Sandra Ahmadi is a scholar of money. Her primary research concerns central banking and monetary governance. Sandra uses quantitative and qualitative analyses focused on monetary policymakers and other central bank staff as individual decision makers to explore the impacts of behavioral expectations on financial markets and currency policy. Before joining the Department of Political Science at the University of Washington, Sandra worked in underwriting for nearly a decade where she was immersed in the realities of financial markets and their various actors.



Eliza Oak. Eliza Oak is a second-year political science PhD student, also pursuing an MA in Statistics & Data Science, at Yale University. Her work broadly spans comparative politics, international political economy, and quantitative methods. Specifically, she's interested in questions related to the politics of blockchain and other emerging technologies. She has used a variety of methods in her research, including applying machine learning techniques to collect and analyze text and image data, or analyzing original survey and experimental data. Prior to Yale, Eliza worked as a research associate at MIT's Political Methodology Lab, and she holds a BA in political science from BYU.



Ayse D. Lokmanoglu. Ayse D. Lokmanoglu is a Post-Doctoral Fellow at the Center for Communication & Public Policy at Northwestern University. Her work focuses on malign digital campaigns (hate speech, extremism, disinformation) and utilizes qualitative and quantitative approaches to examine harmful narratives and digital messaging. She has published in journals including *Studies in Conflict and Terrorism*, *Cambridge Review of International Affairs*, *International Journal of Communication*, *Health Communication*, *Social Science and Medicine*, and many others.



Kamil Klosek. Kamil Klosek is a postdoctoral researcher situated at the Peace Research Institute Prague (PRCP) located at the Department of Security Studies, Charles University. In his research, he focuses on the economic dimensions of internal armed conflicts including natural resources, foreign direct investments, currencies, and central bank policies, and their impact on conflict dynamics such as military interventions, conflict processes, and conflict outbreak.



Hans-Jakob Schindler. Dr. Hans-Jakob Schindler is the Senior Director of the Counter Extremism Project (CEP), co-chair of the Advisory Board of the Global Diplomatic Forum in London, member of the Board of Directors of Compliance and Capacity Skills International (CCSI) in New York and London and a teaching fellow at the academy for Security in the Economy (ASW Akademie AG) in Essen. In 2013 he joined the ISIL (Da'esh), al-Qaida and Taliban Sanctions Monitoring Team of the United Nations Security Council and served as the Team's Coordinator from 2015 to 2018. Prior to his appointment, he worked as an associated partner for West

Sands, an associated consultant for Stirling Assynt and as Program Director for the Institute for Strategic Dialogue in the United Kingdom. Between 2005 and 2011 he held the position of First Secretary Political Affairs and Liaison to the Security Forces at the German Embassy in Tehran. From 2001 until 2005 he was part of the federal government of Germany's team investigating

al-Qaida in Afghanistan, Pakistan and Central Asia. Having studied in Tübingen, at Georgetown in Washington D.C., and Tel Aviv he holds a Master's and PhD degree in International Terrorism from St. Andrews University.



Tom Klein. Tom is ThirdWay's '21 National Security Fellow, focused on curbing illicit cryptocurrency use as a part of Thirdway's larger Cyber Enforcement Initiative. Previously, Tom conducted academic and digital forensics research for public and private sector clients, often focused on cyber-enabled incidents." Tom is a recent MPP graduate of Oxford's Blavatnik School of Government.



Jack Cable. Jack Cable is a hacker who works at the intersection of cybersecurity and public policy. He most recently was a security architect at the Krebs Stamos Group. Jack has worked on the Cybersecurity and Infrastructure Security Agency's election security team and at the Defense Digital Service. Jack holds a B.S. in computer science from Stanford University, and does research in election security, computer security, and mis/disinformation.



Karen Nershi. Dr. Karen Nershi received her Ph.D. from the Department of Political Science at the University of Pennsylvania. Her dissertation examines cross-national anti-money laundering enforcement using data on cryptocurrency transactions. Her research interests include understanding the impact of new technologies on international relations, politics, and society and using new technology to study traditional questions in political science. At CISAC, Dr. Nershi's research will focus on the societal impact of recent developments in cryptocurrency.



Shelby Grossman. Shelby Grossman is a research scholar at the Stanford Internet Observatory. She was previously an assistant professor of political science at the University of Memphis. Her primary research interests are in online trust and safety and the political economy of development. Her research has been published in *Comparative Political Studies*, *Political Communication*, and *World Politics*, and she has a book published with Cambridge University Press. She earned her PhD in Government from Harvard University in 2016.



Allan “Ransomware Sommelier” Liska, Ransomware Specialist, Recorded Future.

With more than 20 years of experience in ransomware and information security, Allan Liska has improved countless organizations’ security posture using more effective intelligence. Liska provides ransomware-related counsel and key recommendations to major global corporations and government agencies, sitting on national ransomware task forces and speaking at global conferences. Liska has worked as both a security practitioner and an ethical hacker at Symantec, iSIGHT Partners, FireEye, and Recorded Future. Regularly cited in *The Washington Post*, *Bloomberg*, *The New York Times*, and *NBC News*, he is a leading voice in ransomware and intelligence security. Liska has authored numerous books including “*The Practice of Network Security, Building an Intelligence-Led Security Program*,” “*Securing NTP: A Quickstart Guide*,” “*Ransomware: Defending Against Digital Extortion*,” “*DNS Security: Defending the Domain Name System*,” and “*Ransomware: Understand.Prevent.Recover.*”