

Lightning Introductions

**Sociotechnical Cybersecurity
Workshop 2
August 8-9, 2017**

Rebecca Annis - University of Maryland



I hope this workshop will help bridge the gaps between the academic, industry, and governmental approaches to cybersecurity so that the different groups can move forward together effectively.



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Jim Blythe - University of Southern California



USCViterbi

School of Engineering
Information Sciences Institute

I hope to contribute experience in combining findings from social science with computational models to attempt to uncover security circumventions, their motivation and also their consequences in an organization. The first step to learning from all users to improve security.

George Burruss - University of South Florida



Improve how industry and government collect and share data on cybercrime so that we can understand its causes and evaluate how we respond to the problem.



Florida Center for
Cybersecurity
at the University of South Florida



Deanna Caputo - MITRE



*I hope this workshop will leverage **human behavior** to reduce cybersecurity risk using the **behavioral sciences** to understand and strengthen the **human firewall**.*

I hope to represent well the opportunities for the behavioral sciences to improve cybersecurity research.

MITRE

Kathleen Carley - Carnegie Mellon University



Experience in how dynamic network analytics can be used to address cyber-security issues, and deep understanding of the relationship between social media and security.



John D'Arcy - University of Delaware



Understanding of how individual characteristics and certain contextual factors contribute to cybersecurity failures within organizations, particularly those involving insiders.



Alfred Lerner College
of Business & Economics
DEPARTMENT OF ACCOUNTING & MIS



Sauvik Das - Carnegie Mellon University



I hope to contribute a perspective that
marries HCI, social psychology and
cybersecurity, with some understanding
of both academic and industry goals.



Khari Douglas - CCC



I hope that we can refine a compelling set of grand challenges that could impact the cybersecurity agenda at the national level





Ann Drobnis - CCC

Cybersecurity is becoming more and more of a buzzword in the policy world, but no one knows what to do. I hope to use our work to engage with policymakers so that we can educate and engage in a positive manner.



<http://cra.org/ccc/about/ccc-council-members/ann-drobnis/>



Stephanie Forrest - Arizona State University



I bring many years of experience modeling complex adaptive systems and proposing interdisciplinary solutions to cybersecurity problems. A successful workshop will shift our thinking to ask: “what interventions and practices will actually improve cybersecurity?”

Jens Grossklags - Technical University of Munich



Cyber-(in)-security decision-making is shaped by incentives on many individuals and organizational levels. Let's make incentives work in our favor.



Seda Gürses - Princeton University



Outsourcing of organizational IT to external service providers is likely to require the service developers to take on socio-technical cybersecurity issues.

I would like to think together about how we can bring socio-technical cybersecurity issues into the development, deployment and maintenance of (scalable) services?

Peter Harsha - CRA



A little policy context, where needed.



CRA

Computing Research
Association



CRA

Government Affairs
For America!

(Unofficial logo)

<http://cra.org/blog>



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Shuyuan Mary Ho - Florida State University

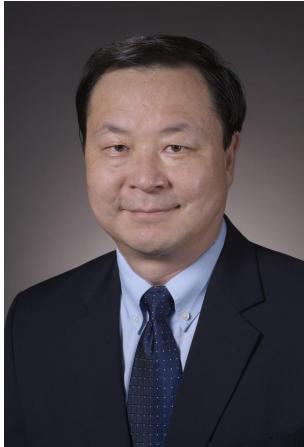


**FLORIDA STATE
UNIVERSITY**



Sociotechnical cybersecurity research requires unique consideration of dynamic context and scenario-based human factors research and engineering. Basic research can provide key revelations to our understanding of human behavior, human-computer interaction, and cyberinfrastructure that supports our mission of enabling a secure cyberspace.

Qing Hu - The City University of New York



How organizations effectively protect digital assets against external and internal threats by building integrated multilayered defence using cybersecurity technology, organizational governance, control processes, and science based management policies and procedures.



Thomas Holt - Michigan State University



I will add information as to the practices of cybercriminals, the economic threats that they pose, and ways to improve the state of reporting of cybercrime to industry and law enforcement agencies.

MICHIGAN STATE
UNIVERSITY

Erin Kenneally - Department of Homeland Security



Homeland
Security

I can impart my experiences in academia, industry and the government in the technology-law-ethics domain to help synthesize and steer issues and solutions for the grand challenges at play.

I hope the workshop advances pragmatic vision and actions for any/all of the challenge problems areas to help move stakeholders beyond groundhog day conversations about the cybersecurity challenges. A cross-disciplinary sociotechnical dialogue is a necessary prerequisite.

Bart Knijnenburg - Clemson

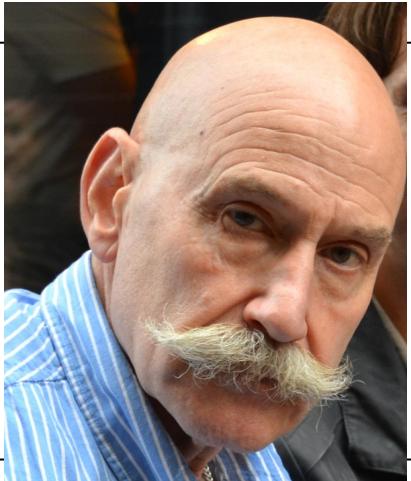


I investigate personal and interpersonal decision-making practices, and develop technologies to support these practices.

I hope this workshop will contribute a roadmap towards a society where the privacy and security interests (and practices) of consumers, businesses, and governments are more aligned.



Ross Koppel - University of Pennsylvania



Emphasize need for multiple methods —ethnographic, surveys, statistics, simulations, log reviews, etc--to understand users' needs for cybersecurity circumvention. Help IT depts be more responsive & provide understandable guidelines. Recognize workflow & tasks trump cybersecurity rules.



Brian LaMacchia - Microsoft



I hope that this workshop will lead to more interdisciplinary research on the economic, legal and social factors of cybersecurity and, eventually, improve industry's secure software development processes.

Microsoft Research

David Maimon - Maryland



- I can contribute knowledge about scientific evaluations of attackers', defenders' and targets' behaviors in cyberspace
- I hope this workshop will pave the way for future designs of adaptive and sensitive cyber environments that nudge computer users' behaviors in a desired and effective way



DEPARTMENT OF
Criminology & Criminal Justice
BE JUST



Keith Marzullo - University of Maryland



I would like to help the ICT R&D agencies frame their cybersecurity programs to include more explicit socio-technical concerns and approaches.



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Damon McCoy - New York University



I hope to contribute an understanding of how attackers, defenders, and victims interact at an economic, social, and technical level.



Ghita Mezzour - International University of Rabat/University of Maryland



-I hope to contribute my experience doing data-drive cyber security research.

-I also hope to contribute my experience studying the effect of various social and technical factors on cyber crime and cyber warfare in different countries.



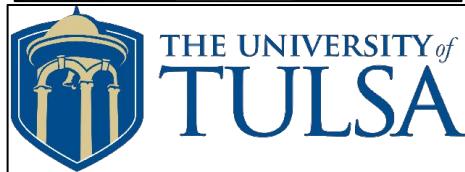
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MARYLAND



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Tyler Moore - The University of Tulsa



I hope the workshop will advance the notion that for cybersecurity to be scientific, it must engage the social sciences. The grand challenges should demonstrate to the community what a *social* science of security looks like.

David Mussington - University of Maryland



I hope to contribute an awareness of cyber's impact on international security; I hope that the workshop will conclude that governance questions are a worthy grand challenge.



Stefan Savage - UC San Diego



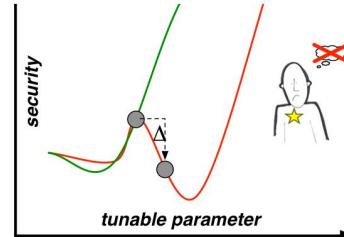
What do you hope to contribute to this workshop and/or how do you hope this workshop will impact the cybersecurity landscape?

UC San Diego

Sean Smith - Dartmouth College



Contribute: insights from deep dives into real world (e.g. health, power, finance)



Goal: move from fantasy-based security to evidence-based security, taking into account what humans *actually* do.



Dartmouth

Susan Squires - University of North Texas



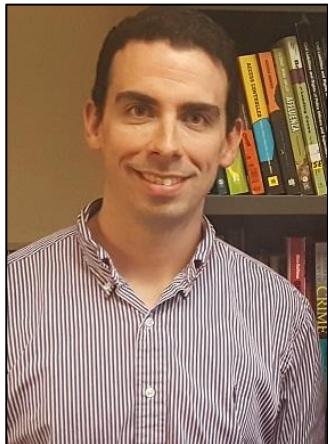
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UNIVERSITY *of*
NORTH TEXAS



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Kevin Steinmetz - Kansas State University



I My goal is to ensure that the ideas developed at this workshop remain mindful of social structural, cultural, and political economic concerns. In particular, I hope to contribute a macro-structural view of information security and crime.

**KANSAS STATE
UNIVERSITY**

Timothy Summers - University of Maryland



I hope that we encourage each other to push the boundaries of how we think of cybersecurity and the impact of sociotechnical cybersecurity to humanity.



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Marie Vasek - University of New Mexico



I hope to contribute a view of cybersecurity through the incentives and strategies of both malicious actors and their victims.



THE UNIVERSITY *of*
NEW MEXICO

Susan Winter - University of Maryland



I would like to see this workshop enhance interdisciplinary socio-technical cybersecurity research and practice.



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Jamie Winterton - Arizona State University



I hope this workshop will help build a bridge between technologists and non-technical users, and create links between industry and academic research.

I hope to contribute a broadly interdisciplinary view of cybersecurity research, as well as experience with industry/academic partnerships.

Rebecca Wright - Rutgers University



- I hope this workshop will contribute meaningfully to the understanding of the necessity and the difficulty of incorporating a sociotechnical approach to cybersecurity.
- I bring a technical understanding of various aspects of security and privacy, and a respect for the importance of human, social, organizational, and economic factors.



Heng Xu - The Pennsylvania State University



PennState

- I bring the theoretical/empirical understanding of identifying means of having privacy safeguards in place at different levels: individual, family, group, and organization.
- I hope this workshop will contribute to the growing interdisciplinary cybersecurity research at the intersections of social sciences, computer sciences, and data sciences.

Fen Zhao - NSF



What do you hope to contribute to this workshop and/or how do you hope this workshop will impact the cybersecurity landscape?