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**APPLIED CYBERSECURITY RESEARCH**

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**Speaker  
Series**

# Understanding and Altering Users' Motivation to Follow Computer Security Advice

A RATIONAL DECISION MODEL APPROACH

*Mohammad Maifi Khan*



**February 9, 2017 | Noon | Maurer Law 335 (lunch provided)**

Can't make it to campus? A live stream will be available at the Innovation Center in room 105

**Usable security researchers have long been interested in what users do to keep their devices and data safe and how that compares to recommendations.** Additionally, experts have long debated and studied the psychological underpinnings and motivations for users to do what they do, especially when such behavior is seen as risky, at least to experts. This talk will survey our work on users' motivation behind their online decisions, and will discuss the key gaps in perception between those who follow common security advice (i.e., update software, use a password manager, use 2FA, change passwords) and those who do not. Finally, findings from one of our recent studies that investigated the effectiveness of informational videos that are designed to provide information about two-step verification (i.e., 2FA) and improve users' adoption rate of 2FA will be presented.



## **Mohammad Maifi Khan**

is an Assistant Professor in the Computer Science and Engineering Department in the School of Engineering at University of Connecticut. He received his B.Sc. Engineering degree in Computer Science and Engineering from BUET, Bangladesh, and MS and PhD degree in Computer Science from University of Illinois, Urbana-Champaign. His research revolves around different aspects of system reliability and usability such as performance modeling and troubleshooting of large scale systems, mitigating the effect of system failures on system usability, and improving user's compliance rate towards recommended online behavior. His published work spans a diverse range of fields, including usable authentication, risk communication, distributed protocol design and troubleshooting, and wireless sensor systems.