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EDUCATIONAL BACKGROUND

Degree	Year	University	Field
Ph.D.	2008	Pennsylvania State University State College, PA <i>Dissertation:</i> Characterizing the Impact of Ridigity on the Security of Cellular Telecommunications Networks <i>Advisors:</i> Thomas F. La Porta and Patrick D. McDaniel	Computer Science & Engineering
M.S.	2004	Pennsylvania State University State College, PA	Computer Science & Engineering
B.S.	2002	University of Richmond Richmond, VA <i>Minors:</i> Biology, Business Admin	Computer Science

EMPLOYMENT HISTORY

Title	Organization	Years
Associate Professor	University of Florida	August 2014–Present
Associate Professor	Georgia Institute of Technology	March 2014–August 2014
Assistant Professor	Georgia Institute of Technology	2008–March 2014
Research Assistant	Pennsylvania State University	2004–2008
Teaching Assistant	Pennsylvania State University	2004

CURRENT FIELDS OF INTEREST

My research focuses on the security of cellular/telephony networks and mobile systems. The security of these systems generally relies on their closed nature and trust in the honest behavior of users. However, with the recent disintegration of these assumptions and with over than six billion subscribers around the world, cellular and mobile systems represent the next great expansion in global critical infrastructure and, because of their unique characteristics, require new and different approaches to security.

Recognizing this, my research focuses on three specific themes: (1) developing efficient techniques to allow telephony providers and customers to authenticate the origin of incoming calls; (2) measuring and improving the security of emerging mobile financial systems and (3) efficient and strong privacy-preserving techniques for mobile devices.

This work is guided by the idea that the meeting of smart networks and smart devices, a scenario not seen in the traditional Internet, can lead to significant improvements in the security of users and the availability and integrity of services. I have a strong interest in solutions that can be deployed in both the short and long terms, and am actively engaging both industry and government in this capacity. My

research, if successful, will help to not only improve the general security of networked devices, but also to maintain the historical reliability of telephony networks as they become the dominant digital access technology.

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