

Maritza Johnson

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Education

Columbia University , New York, NY Ph.D. Candidate, Computer Science Adviser: Steven M. Bellovin	expected May 2012
Columbia University , New York, NY M.S., Computer Science	2008
Texas A&M University , College Station, TX Ph.D. Candidate, Computer Science	2006
University of San Diego , San Diego, CA B.A., Computer Science	2005

Research Interests

Computer security, human-computer interaction, security policy management user interfaces, data privacy.

Research Experience

Columbia University 9/2006 – present
Ph.D. Candidate with Professor Steven M. Bellovin

I am researching security policy management user interfaces. Our research aims to understand and measure the shortcomings of existing mechanisms with the goal of designing an improved user interface.

National Institute of Science and Technology, Gaithersburg 6/2011 – 8/2011
Research Intern

With Serge Egelman, conducted a survey of online social network users to measure privacy concerns and investigate how users address their privacy concerns.

IBM T.J. Watson Research, Hawthorne 5/2009 – 12/2009
Research Intern

With Clare-Marie Karat and John Karat, designed a policy template authoring tool and conducted a user study to evaluate the usability of the tool.

Microsoft Research, Redmond 6/2008 – 8/2008
Research Intern

With Stuart Schechter, designed and implemented a novel file-sharing mechanism to address usability issues in an existing mechanism. Implementation difficulties motivated our NSPW 2009 paper Laissez-Faire File Sharing.

Updated: January 15, 2012

AT&T Labs
Research Intern

6/2007 – 8/2007

With Norm Schryer and Tom Killian, investigated methods of displaying outgoing browser activity to the user. Focused on designing a browser extension capable of correlating http activity with the user's browsing history.

Texas A&M University
Graduate Research Assistant

9/2005 – 5/2006

With Professor Andruid Kerne, performed research as a member of the Interface Ecology Lab. Contributed to the development of a location-aware team coordination game to promote awareness.

Texas A&M University
Undergrad Research Assistant, CRAW-DMP

6/2004 – 8/2004

With Yoonsuck Choe, investigated various properties of the *c.elegan* neural network.

Fellowships, Honors, and Awards

Future of Privacy Forum's Best "Privacy Papers for Policy Makers" Competition (2011)
AT&T Labs Fellowship (2007-2010)
Columbia University Computer Science Service Award (2008 – 2011)
Graduate Diversity Fellow, Texas A&M University (2005 – 2006)
NSF Fellowship Honorable Mention (2005)
USD Award for Academic Excellence in Computer Science (2005)
CRA-W Distributed Mentor Project Participant (2004)
Hispanic National Merit Scholar (2002)

Publications

Conference Papers

Maritza Johnson, John Karat, Clare-Marie Karat, and Keith Grueneberg. Optimizing a policy authoring framework for security and privacy policies. SOUPS '10: Proceedings of the 6th Symposium on Usable Privacy and Security, 2010.

Maritza Johnson, John Karat, Clare-Marie Karat, and Keith Grueneberg. Usable policy template authoring for iterative policy refinement. POLICY '10: Proceedings of the IEEE International Workshop on Policies for Distributed Systems and Networks, 2010.

Elli Androulaki, **Maritza Johnson**, Binh Vo and Steven Bellovin. Cybersecurity through an Identity Management System. First International Forum on the Application and Management of Personal Electronic Information, 2009.

Maritza Johnson, Chaitanya Atreya, Adam Aviv, Mariana Raykova, Steven M. Bellovin, and Gail Kaiser. RUST: A Retargetable Usability Testbed for Web Site Authentication Technologies. UPSEC '08: Proceedings of the 1st Conference on Usability, Psychology, and Security, 2008.

Zachary O. Toups, Ross Graeber, Andruid Kerne, Louis Tassinary, Sarah Berry, Kyle Overby, **Maritza Johnson**. A Design for Using Physiological Signals to Affect Team Game Play. ACI '06: Proceedings of Augmented Cognition International, 2006.

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Workshop Papers

Michelle Madejski, **Maritza Johnson**, Steven M. Bellovin. A Study of Privacy Setting Errors in an Online Social Network. SESOC '12: Proceedings of the 4th IEEE International Workshop on Security and Social Networking, 2012.

Maritza Johnson, Steven M. Bellovin, Robert W. Reeder, and Stuart Schechter. Laissez-faire file sharing: Access control designed for individuals at the endpoints. NSPW '09: Proceedings of the New Security Paradigms Workshop, 2009.

Position Papers

Serge Egelman and **Maritza Johnson**. How Good is Good Enough? The Sisyphean struggle for optimal privacy settings. CSCW Workshop: Reconciling Privacy with Social Media, 2012.

Maritza Johnson, Steven M. Bellovin, Angelos D. Keromytis. Computer Security Research with Human Subjects: Risks, Benefits, and Informed Consent. 2nd Workshop on Ethics in Computer Security Research, 2011.

Maritza Johnson and Steven M. Bellovin. Policy Management for E-Health Records. HealthSec 2010, Usenix Security Workshop, 2010.

Maritza Johnson and Steven M. Bellovin. Security Assurance for Web Device APIs. Security for Access to Device APIs from the Web, W3C Workshop, 2008.

Technical Reports

Michelle Madejski, **Maritza Johnson**, and Steven M. Bellovin. The Failure of Online Social Network Privacy Settings. Tech Report CUCS-010-11, Columbia University, February 2011.

Shreyas Srivatsan, **Maritza Johnson**, and Steven M. Bellovin. Simple-VPN: Simple IPsec Configuration. Tech Report CUCS-020-10, Columbia University, July 2010.

Hang Zhao, **Maritza Johnson**, Chi-Kin Chau, Steven M. Bellovin. Source Prefix Filtering in ROFL. Tech Report CUCS-033-09, Columbia University, July 2009.

Teaching Experience

Instructor, Object Oriented Programming and Design with Java, Columbia University, Summer 2010.

Teaching Assistant, Security Architecture and Engineering, Columbia University, Fall 2008.

Teaching Assistant, Computer Networks, Columbia University, Fall 2007.

Invited Talks

Invited panelist. Public Perceptions about Information Aggregation, Sixth Law and Information Society Symposium: Big Data, Big Issues. March 2012.

Invited panelist. Internet Research, Columbia University Institutional Review Board Educational Conference: Current IRB Challenges and Practical Solutions. March 2011.

Service

Board member, Columbia University Institutional Review Board (September 2011 – present).
Program Committee, WECSR 2012.
Program Committee, NSPW 2010.

Member, W3C Web Security Context Working Group (2006 – 2010).
Budget and Finance Chair, Graduate Student Advisory Council (2009 – 2011).
President, Columbia Women in Computer Science (2008 – 2009).
Vice President, Columbia Women in Computer Science (2006 – November 2008).
Vice President, Aggie Women in Computer Science (2005 – 2006).
Computer Science Representative, Columbia Women in Science (2006 – 2011).
Organization Committee, Columbia Girl's Science Day (2006).

Reviewer: CCS 2010-2011, IEEE Security and Privacy, CHI 2009, SOUPS 2008, iTrust 2008, APWG 2007, UPSEC 2007-2008.
Student Volunteer: Grace Hopper 2006-2007.