

Allan A. Friedman

CONTACT INFORMATION	Brookings Institution 1775 Massachusetts Ave NW Washington DC 20036 USA	Voice: (202) 797-2103 E-mail: afriedman@brookings.edu WWW: http://allan.friedmans.org
RESEARCH INTERESTS	<i>Information technology policy, particularly privacy and security; Telecommunications policy and IT industrial organization; Social network analysis methods and applications; Intellectual property and digital rights management; Cybersecurity and national security policy</i>	
EDUCATION	Harvard University , Cambridge, MA USA PhD, Public Policy (2009) <ul style="list-style-type: none">• Thesis title: “Privacy, Security, and the Dynamics of Networked Information Sharing”• Committee: David Lazer (Chair), L. Jean Camp, Jan W. Rivkin, Michael D. Smith Swarthmore College , Swarthmore, PA USA B.A., Computer Science (2002) <ul style="list-style-type: none">• Concentration in Public Policy• Thesis title: “IT Standards as IT Policy”	
RESEARCH POSITIONS	Brookings Institution , Washington, DC USA <i>Research Director, Center for Technology Innovation</i> 2010-Present <i>Fellow, Governance Studies Program</i> 2010-Present Harvard University , Cambridge, MA USA <i>Postdoctoral Fellow, Center for Research in Computation and Society</i> 2009 - 2010 <ul style="list-style-type: none">• Developed and began interdisciplinary research agenda on IT policy.• Affiliated with the Berkman Center for Internet and Society <i>Research Fellow, Belfer Center for Science and International Affairs</i> 2009 - 2010 <ul style="list-style-type: none">• Began theoretical and empirical research on cybersecurity and international relations on a Harvard-MIT Defense Department grant• Liason between technical and policy research groups. <i>Instructor, Computer Science Department</i> 2007 - 2009 <ul style="list-style-type: none">• Designed a new course on Privacy and Technology (CS199r, then CS105) for the Computer Science Department with Dean Michael Smith and Jim Waldo.• Co-taught interdisciplinary course to 36 undergraduate and graduate students. <i>Fellow, Program on Networked Governance</i> 2005 - 2009	

PEER-REVIEWED
JOURNAL
ARTICLES

Tyler Moore, Allan Friedman, and Ariel Procaccia. "Would a 'Cyber Warrior' Protect Us? Exploring Trade-offs Between Attack and Defense of Information Systems" New Security Paradigms Workshop. (2010)

Luc Wathieu and Allan Friedman. An Empirical Approach to Understanding Privacy Concerns. *Journal of Interactive Marketing*. Under Revision.

David Lazer, Ines Mergel and Allan Friedman. Co-citation of prominent social network articles in sociology journals: The evolving canon. *Connections*. 29:1 (2009).

David Lazer and Allan Friedman. Parallel Problem Solving: The Social Structure of Exploration and Exploitation. *Administrative Science Quarterly*. 52:4 (2007)

Allan Friedman. Good Neighbors Make Good Fences: A Peer-to-peer User Security System. *IEEE Technology and Society*. 26:1 (2007)

Allan Friedman, Roshan Baliga, Deb Dasgupta, Anna Dreyer. Understanding the broadcast flag: a threat analysis model. *Telecommunications Policy* 28 (2004)

BOOK CHAPTERS AND MONOGRAPHS Allan Friedman. Universal National Identifier. in *The Economics of Identity Theft* ed. L. Jean Camp (New York) 2007.

Allan Friedman and L. Jean Camp. Security in Peer to Peer Systems. in *The Handbook of Information Security* ed. Hossein Bidgoli, John Wiley & Sons (Hoboken, New Jersey) 2005.

Luc Wathieu and Allan Friedman. Intelliseek Harvard Business School Case N9-505-061 2005

PEER REVIEWED
CONFERENCE
PAPERS

Allan Friedman, Ethan Bernstein and David Lazer. Organizational Structure, Exploration, and Exploitation on the ELICIT Experimental Platform. 15th International Command and Control Research Conference, Santa Monica CA, June 2010.

Alessandro Acquisti, Allan Friedman and Rahul Telang. Is There a Cost to Privacy Breaches? International Conference on Information Systems, Milwaukee WI, November 2006

Alessandro Acquisti, Allan Friedman and Rahul Telang Is There a Cost to Privacy Breaches? An Event Study Workshop on the Economics of Information Security, Cambridge UK. June 2006

David Lazer and Allan Friedman. Exploration and Exploitation in Networks. Poster Presentation at the National Conference on Digital Government Research, Atlanta , May 2005

David Lazer and Allan Friedman. The parable of the hare and the tortoise: Network structure of exploration and exploitation. American Sociological Association Annual Conference, Philadelphia PA, August 2005

Luc Wathieu and Allan Friedman. An empirical approach to understanding privacy valuation. Workshop on the Economics of Information Security, Cambridge MA, June 2005

Allan Friedman and L. Jean Camp. Making Security Manifest. Second Workshop on Economics and Information Security College Park, MA. May 2003.

ABSTRACT
REVIEWED
CONFERENCE
PRESENTATIONS

Alessandro Acquisti and Allan Friedman. Understanding the Impact of Privacy Breaches. Telecommunications Policy Research Conference, Washington DC, September 2006.

Allan Friedman. The Tragedy of the Network. International Sunbelt Social Network Conference, Vancouver, April 2006

Jean Camp, Allan Friedman, and Alla Genkina. Net Trust: Designing for Human Trust Perception. Trustworthy Interfaces for Passwords and Personal Information. Palo Alto CA, June 2005.

Jean Camp, Allan Friedman, and Warigia Bowman. Voting, Vote Capture & Vote Counting Symposium. Proceedings of the 6th Annual National Conference on Digital Government Research, Atlanta GA, May 2005

Jean Camp and Allan Friedman. Peer Patching. 24th Army Science Conference, Orlando FL, December 2004

Allan Friedman, Roshan Baliga, Deb Dasgupta, and Anna Dreyer. Underlying Motivations in the Broadcast Flag Debate Telecommunications Policy Research Conference, Washington DC, September 2003.

Jean Camp and Allan Friedman. Peer to Peer Security. Telecommunications Policy Research Conference, Washington DC, September 2003.

INVITED
PRESENTATIONS
AND PANELS

Empirical research: obstacles and solutions. Panel Chair and Participant. Workshop on the Economics of Securing Information Infrastructure. Washington DC, October 2006.

Incentives, Markets and Information Security. Panel Chair and Participant. Financial Cryptography and Data Security, Dominica, February 2005

Privacy and Rights Management. Invited Panel Participant. International Conference on Electronic Commerce, Pittsburgh PA, October 2003.

(Inter)national IDs. Panel Chair and Participant, Privacy Enhancing Technologies Workshop: Dresden, Germany, March 2003

Online Banking Privacy: A Slow, Confusing Start to Giving Customers Control over Their Information. Primary Researcher. Center for Democracy and Technology Report, 2001.

PROFESSIONAL
EXPERIENCE

Parity Communications, Inc, Needham, MA

Analyst

April 2009 - present

- Worked as subcontractor to study U.S. Defense Department Command and Control Structure in light of intelligence gathering and social network structure.
- Designed and implemented laboratory models of information sharing patterns.

MITRE Corporation, Washington, DC

Consultant

June 2006 - October 2006

- Identified a modeling strategy for understanding the security of patient information flow and privacy risks in electronic medical record systems.
- Constructed and executed an empirical research pilot program

Hewlett Packard Laboratories, Palo Alto, CA

Research Intern

June 2005 - August 2005

- Applied social science and complex systems tools to IT problems
- Focused on economics of privacy and market-driven technology distribution systems and gave several internal presentations.

Harvard Business School, Cambridge, MA

Research Assistant

2004 - 2007

- Worked with Prof. Luc Wathieu to design and test economic theories of consumer privacy.
- Co-authored HBS case on the use of web information for marketing purposes, and worked on several others.

Harvard Kennedy School, Cambridge, MA

Research Assistant

2002 - 2008

- *With Prof. Jean Camp*: Combined technical expertise with policy analysis to draft reports on Identity in Electronic Authentication and Electronic Voting and Vote Counting; co-wrote several articles.
- *With Prof. David Lazer*: Designed agent-based models to test theories of organizational dynamics.
- *With Prof. Cary Coglianese*: Examined online presence of regulatory agencies and their use of internet technology for greater public participation in new field of E-Rulemaking.

Center for Democracy and Technology, Washington, DC

Policy Intern

June 2001 - August 2001

- Primary researcher of a published report on Online Banking Privacy.
- Chief aid in the launching of CDTs Standards Project examining policy impacts of technical decisions.

Swarthmore Center for Social and Policy Studies, Swarthmore, PA

Research Assistant

2000 - 2002

- Assisted senior faculty on a variety of research topics, both academic and applied.
- Individual research project on technology and civic engagement.

ACADEMIC
SERVICE

General Chair, Workshop on the Economics Information Security (2010)
Program Committee, Fourth Annual IFIP Working Group 11.10 International Conference on Critical Infrastructure Protection (2010)
Program Committee, Security and Privacy in Medical and Home-Care Systems (2009)
Program Committee, MIT-Sandia Workshop on Cyber Data Gap Analysis (2009)
Reviewer, *topiCS: Journal of The Cognitive Science Society* (2008)
External Reviewer, *Financial Cryptography and Data Security* (2007)
Program Committee, Workshop on the Economics of Securing Information Infrastructure(2006)
General Chair, Workshop on the Economics of Information Security (2005)
Reviewer, Fifth ACM Workshop on Digital Rights Management (2005)
Reviewer, *New Media and Society Journal* (2005)
Member, Association for Computing Machinery (ACM)
Member, Culinary Historians of Boston

INVITED
PARTICIPATION IN
EDUCATIONAL
WORKSHOPS

NYU Summer Workshop on the Economics of Information Technology, June 2006
Santa Fe Institute Complex Systems Summer School, Qingdao, China, July 2004
NSF Graduate Webshop for Scientific Research on the Internet, University of Maryland, June 2003