

Simson L. Garfinkel, Ph.D.

Department of Computer Science
Naval Postgraduate School
1411 Cunningham Road, GE-234
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Research Interests

- Automated Computer Forensics
- Usable Security
- Privacy and Information Policy
- Personal Information Management
- Terrorism

Education

Massachusetts Institute of Technology, Cambridge, MA, 2005

Ph.D. in Computer Science and Engineering

Dissertation: *Design Principles and Patterns for Computer Systems that are Simultaneously Secure and Usable.*

Supervised by David D. Clark and Robert C. Miller.

Honorable mention for the 2005 George M. Sprowls award for the best doctoral theses in computer science.

Columbia University School of Journalism, New York, 1988

S.M. in Journalism with honors

Master's thesis: *Tenant Screening Services in the United States.*

Supervised by Steven Ross.

Winner of the 1988 Elisabbeta DiCagno Award "for the best investigative story on environmental protection or human rights."

Massachusetts Institute of Technology, Cambridge, MA, 1987

S.B. Chemistry; S.B. Political Science; S.B. program in Science, Technology and Society

Bachelor's thesis: *Radio Research, McCarthyism and Paul F. Lazarsfeld [OCR]*

Supervised by Peter Buck.

Research and Professional Experience

Sponsored Research

Principal Investigator, DARPA Sector Discrimination Seedling, November 2008--September 2009.

Principal Investigator, NIST/NPS Interagency Agreement M92367, "Support of NIST Computer Forensics Testing Program," November 2008--January 2009.

Principal Investigator, NPS/ITACS, "S/MIME Research," October 2008--September 2009.

Principal Investigator, Joint IED Defeat Organization (JIEDDO), NPS Award NR: R92NL--106, "Detecting Network Membership with Cross-Drive Analysis," December 2007--September 2008.

Senior Research Staff, NSF Award 0730389, [EXP-SA: Prediction and Detection of Network Membership through Automated Hard Drive Analysis](#), August 1, 2007--July 31, 2010. Patrick Wolfe, Principle Investigator.

Positions Held

[Naval Postgraduate School, United States Navy](#) Sept. 2006 --

Associate Professor. Interests include computer forensics; security and usability; cyberlaw.

[Center for Research on Computation and Society, Harvard University](#) Sept. 2005 --- August 2008

Post-doctoral fellow. Interests include computer forensics; security and usability.

[Computer Science Department, University of Auckland, NZ](#) August 2005

Honorary Research Scholar. Research on cross-drive forensics.

[Computer Science and Artificial Intelligence Laboratory, MIT](#) Sept. 2002 --- June 2005

Doctoral student. Research on security and usability; secure messaging; computer forensics; and Radio Frequency Identification (RFID) policy.

[Broadband2Wireless, Inc.](#) May 2000 --- July 2001

Network Architect, Chief Scientist, and Advisory Board Member. Technical lead for startup nation-wide wireless ISP. Responsibilities included network design, implementation, automation, creation of proprietary technology and algorithms, hiring, and supervision of technical staff.

[MIT Lincoln Laboratory](#) Spring 1998, Spring 1999

Consultant. Developed novel Internet attacks for [1998 and 1999 DARPA Intrusion Detection Evaluations](#).

[Sandstorm Enterprises, Inc.](#)

Founder (1998), CTO (1998-2001), Treasurer (2000-)

Conceived and organized Sandstorm Enterprises, a software development firm specializing in computer forensic tools. Negotiated startup funding. Lead developer of two products.

[Daniel J. Evans School of Public Affairs, University of Washington, Seattle](#) January 1997 --- June 1997

Visiting Scholar. Completed *Web Security, Privacy and Commerce* and wrote *Database Nation*.

[Vineyard.NET, Inc](#) July 1995 --- September 2002

Co-Founder. Launched first Internet Service Provider on Martha's Vineyard with \$5000 in personal investment. Grew company to 1500 subscribers with annual revenue of \$500,000. Negotiated sale of company to Broadband2Wireless, Inc in January 2001.

[Simson Garfinkel & Associates, Inc.](#) May 1992 --- February 1993

Founder. Conceived and organized company to develop and market [SBook](#), an AI-based address book application for NeXTSTEP-based computers. Lead developer. Supervised two employees. Negotiated sale of company to Sarrus Software, Inc.

[NeXT Computer, Inc.](#) May 1990, August 1991

Developer. Created a kernel-resident CDROM subsystem (ISO 9660 with Rock Ridge extensions) for NeXTSTEP 3.0.

N/Hance Systems, Dedham, MA, March 1988 --- June 1991
Chief Scientist. Developed and marketed Write Once File System.

IRIS Project, Brown University, June 1987 --- August 1987
System programmer. Designed and implemented a CDROM File system NFS Server.

Polaroid, Inc. January 1987 --- September 1990
Consultant. Designed and implemented a physician's medical imaging workstation. Novel technology included a write-once file system, custom-built window system, and DSP image processing code. Demonstrated workstation at trade shows and deployed within Polaroid for supporting research. Produced a [video of the working system](#).

Weizmann Institute of Science, Israel June 1986 --- August 1986
Summer Researcher. Designed and implemented a multitasking laboratory data acquisition system.

MIT Media Laboratory February 1985 --- June 1987
Undergraduate Researcher. Designed and implemented a file system for CDROM and WORM.

Chemistry Department, MIT April 1984 --- August 1984
Undergraduate Researcher. Designed and developed software for controlling an ultraviolet spectroscope and assisting in the analysis of experimental results for the Department's third-year undergraduate laboratory.

Office of Computing Services, Bryn Mawr College September 1981 --- June 1982
Undergraduate Researcher. Designed and implemented graphics libraries in APL and FORTRAN. Developed visualization software for the Physics department's molecular modeling package.

Teaching Experience

Naval Postgraduate School, Fall 2007--
Associate Professor

- Fall 2008: CS4920: Automated Document and Media Exploitation
- Winter 2008: CS3773: Java as a Second Language
- Fall 2007: CS3610: Information Crime, Law and Ethics

Usenix Association, Spring 2006--
Tutorial Instructor

- Network Forensics & Disk Forensics, LISA 08, San Diego, CA
- Computer Forensics & Forensics Lab, USENIX Security 2008, San Jose, CA
- Computer Forensics, USENIX 2007, San Jose, CA
- Computer Forensics, LISA 2007, Dallas, TX

Harvard University Extension School, Spring 2006
Instructor. Created and taught CSCI E-180: Building Programs with Graphical Interfaces

Harvard University Extension School, Fall 2005
Instructor. [CSCI E-170: Security, Privacy and Usability](#).

Harvard University Extension School, Fall 2004

Instructor. Created and taught [CSCI E-170: Security, Privacy and Usability](#).

Northeastern University School of Computer Science and Information Science, Summer 2004

Part-time Lecturer. Created and taught [CSG 357: Computer Security, Privacy and Usability](#).

Massachusetts Institute of Technology, Spring 2004

Teaching Assistant. Prepared teaching materials including lecture notes and problem sets for [MIT 6.033: Computer System Engineering](#). Lectured on many occasions. Supervised by Jerry Saltzer, David Karger, and Frans Kaashoek.

Massachusetts Institute of Technology, Fall 2003

Teaching Assistant. Prepared problem sets and maintained website for MIT 6.857: Network and Computer Security. Supervised by Ron Rivest.

University of Aizu, Japan, December 1993

Created and taught a one-week course on NeXTSTEP Programming

Academic Publications

Papers in Refereed Journals and Magazines

1. Garfinkel, S., and Migletz, J., [The new XML Office Document Files](#), (to appear in) *IEEE Security & Privacy Magazine*
2. Garfinkel, S. [Providing Cryptographic Security and Evidentiary Chain-of-Custody with the Advanced Forensic Format, Library, and Tools](#) *The International Journal of Digital Crime and Forensics, Volume 1, Issue 1, January-March 2009.*
3. Garfinkel, S., ["Sharp Figures, Fuzzy Purpose"](#) (review of *Security Data Visualization: Graphical Techniques for Network Analysis* by Greg Conti), *IEEE Security & Privacy Magazine*, March/April 2008 (Vol. 6, No. 2), p. 5
4. Palankar, M., Iamnitchi, A., Ripeanu, M., and Garfinkel, S. ["Amazon S3 for Science Grids: a Viable Solution?"](#), *International Workshop on Data-Aware Distributed Computing (DADC'08)*, June 23-27, 2008, Boston, MA
5. Garfinkel, S., ["Carving Contiguous and Fragmented Files with Fast Object Validation"](#), *Digital Investigation, Volume 4, Supplement 1, September 2007, Pages 2--12.*
6. Garfinkel, S. ["Complete Delete vs. Time Machine Computing."](#) *Operating Systems Review, ACM Special Interest Group on Operating Systems, January 2007.*
7. Garfinkel, S., and Smith, M., ["Data Surveillance"](#) (Guest Editor's Introduction), *IEEE Security and Privacy, November/December 2006*
8. Garfinkel, S., ["Forensic Feature Extraction and Cross-Drive Analysis."](#) *Digital Investigation, Volume 3, Supplement 1, September 2006, Pages 71--81.*
9. Garfinkel, S., ["AFF: A New Format for Storing Hard Drive Images."](#) *Communications of the ACM, February, 2006.*
10. *The Common Evidence Format Working Group* (Carrier, B., Casey, E., Garfinkel, S., Kornblum, J., Hosmer, C., Rogers, M., and Turner, P.) ["Standardizing Digital Evidence Storage."](#) *Communications of the ACM, February, 2006.*
11. Garfinkel, S., Juels, A., Pappu, R., ["RFID Privacy: An Overview of Problems and Proposed Solutions."](#) *IEEE Security and Privacy, Volume 3, Issue 3, pp. 34-43, May-June 2005.*
12. Garfinkel, S. ["Email-Based Identification and Authentication: An Alternative to PKI?"](#), *IEEE Security and Privacy, November/December 2003.*
13. Garfinkel, S. ["Leaderless Resistance Today"](#), *First Monday*, 8:3, March 3rd, 2003.

14. Garfinkel, S. and Shelat, A., "[Remembrance of Data Passed: A Study of Disk Sanitization Practices](#)," *IEEE Security and Privacy*, January/February 2003.
15. Garfinkel, S. L., "[Public Key Cryptography](#)," *IEEE Computer*, Volume 29, Issue 6, June 1996, pages 101-104.
16. Stallman, R., and Garfinkel, S., "[Against Software Patents](#)," *Communications of the ACM*, Volume 35, Issue 1 (January 1992), pages 17-22, 121.
17. Stallman, R., and Garfinkel, S., "[Against User Interface Copyright](#)," *Communications of the ACM*, Volume 33, Issue 11 (November 1990), pages 15-18.

Papers in Proceedings of Refereed Conferences

1. Farrell, P., Garfinkel, S., White, D., "[Practical Applications of Bloom filters to the NIST RDS and hard drive triage](#)", *Annual Computer Security Applications Conference 2008*, Anaheim, California, December 2008.
(Acceptance rate: 24%, 42/173)
2. Garfinkel, S., "[IRBs and Security Research: Myths, Facts and Mission Creep](#)", *Usability, Psychology and Security 2008 (Co-located with the 5th USENIX Symposium on Networked Systems Design & Implementation (NSDI '08))*, San Francisco, CA, April 2008. [[slides](#)]
3. Garfinkel, S., "[Carving Contiguous and Fragmented Files with Fast Object Validation](#)", *Digital Forensics Workshop (DFRWS 2007)*, Pittsburgh, PA, August 2007.
(Acceptance rate: 47%, 17/36)
4. Kristic, I., and Garfinkel S., "[The One Laptop per Child Security Model](#)," *Symposium on Usable Security and Privacy*, Pittsburgh, PA, July 2007. ACM Press.
(Acceptance rate: 32%, 13/41)
5. Garfinkel, S., "[Anti-Forensics: Techniques, Detection and Countermeasures](#)", *The 2nd International Conference on i-Warfare and Security (ICIW)*, Naval Postgraduate School, Monterey, CA, March 8-9, 2007.
(Acceptance rate: 55%)
6. Uri Braun, Simson Garfinkel, David A. Holland, Kiran-Kumar Muniswamy-Reddy, and Margo I. Seltzer, "[Issues in Automatic Provenance Collection](#)", *International Provenance and Annotation Workshop (IPAW'06)*, Chicago, IL, May 3-5, 2006.
7. Garfinkel, S., "[Forensic Feature Extraction and Cross-Drive Analysis](#)," *The 6th Annual Digital Forensic Research Workshop Lafayette, Indiana*, August 14-16, 2006.
(Acceptance rate: 43%, 16/37)
8. Garfinkel, S., Malan, D., "[One Big File is Not Enough: A Critical Evaluation of the Dominant Free-Space Sanitization Technique](#)," *The 6th Workshop on Privacy Enhancing Technologies*, Robinson College, Cambridge, United Kingdom, June 28 - June 30, 2006. (Also in G. Danezis and P. Golle (Eds.): *PET 2006*, LNCS 4258, pp. 135--151, 2006, (c) Springer-Verlag Berlin Heidelberg 2006)
(Acceptance rate: 26%, 24/91)
9. Wu, M., Miller, R. C., Garfinkel, S., "[Do Security Toolbars Actually Prevent Phishing Attacks?](#)" *CHI 2006*, April 22-28, 2006, Montreal, Quebec, Canada. Nominated for best conference paper.
(Acceptance rate: 23%)
10. Garfinkel, S., Malan, D., Dubec, K., Stevens, C, Pham, C., "[Disk Imaging with the Advanced Forensics Format, Library and Tools](#)," *The Second Annual IFIP WG 11.9 International Conference on Digital Forensics*, National Center for Forensic Science, Orlando, Florida, USA January 29 - February 1 2006.
(Acceptance rate: 54%, 27/50)
11. Garfinkel, S., Miller, R., "[Johnny 2: A User Test of Key Continuity Management with S/MIME and Outlook Express](#)", presented at the *Symposium on Usable Privacy and Security (SOUPS 2005)*, July 6-8, 2005, Pittsburgh, PA.
(Acceptance Rate: 26%)
12. Garfinkel, S., Schiller, J., Nordlander, E., Margrave, D., and Miller, R., "[How To Make Secure Email Easier To Use](#)", *CHI 2005: Technology, Safety, Community*, Portland, Oregon, April 2-7,

2005.
(Acceptance rate: ~25%)
13. Garfinkel, S., Schiller, J., Nordlander, E., Margrave, D., and Miller, R., "[Views, Reactions and Impact of Digitally-Signed Mail in e-Commerce](#)", [Financial Cryptography and Data Security Ninth International Conference](#), February 28-March 3, 2005, Roseau, The Commonwealth of Dominica.
 14. Garfinkel, S. "[Best Practices for Usable Security In Desktop Software](#)", [DIMACS Workshop on Usable Privacy and Security Software](#), July 7 - 8, 2004. DIMACS Center, CoRE Building, Rutgers University, Piscataway, NJ. [[ppt](#)]
 15. Garfinkel, S., "[The Pure Software Act: A Proposal for Mandatory Software Labeling](#)" (abstract), [DIMACS Workshop on Usable Privacy and Security Software](#), July 7 - 8, 2004. DIMACS Center, CoRE Building, Rutgers University, Piscataway, NJ
 16. Wu, M., Garfinkel, S., Miller, R., "[Secure Web Authentication with Mobile Phones](#)", [DIMACS Workshop on Usable Privacy and Security Software](#), July 7 - 8, 2004. DIMACS Center, CoRE Building, Rutgers University, Piscataway, NJ.
 17. Garfinkel, S. "[Enabling Email Confidentiality through the use of Opportunistic Encryption](#)", presented at the [2003 National Conference on Digital Government Research](#), May 2003, Boston, MA. [[ppt](#)]
 18. Wu, M., Garfinkel, S., Miller, R., "[Secure Web Authentication with Mobile Phones](#)", [Proceedings of the MIT Student Oxygen Workshop, 2003](#).
 19. Garfinkel, S. "[Adopting Fair Information Practices to Low Cost RFID Systems](#)", paper presented at Privacy in Ubicomp'2002 workshop, Gotenborg, Sweden, September 29th, 2002.
 20. Cunningham, Robert K., Richard P. Lippmann, David J. Fried, Simson L. Garfinkel, Isaac Graf, Kris R. Kendall, Seth E. Webster, Dan Wyschogrod, and Marc A. Zissman, "[Evaluating Intrusion Detection Systems without Attacking your Friends: The 1998 DARPA Intrusion Detection Evaluation](#)," in [Proceedings ID'99, Third Conference and Workshop on Intrusion Detection and Response](#), San Diego, CA: SANS Institute, 1999. [[abstract](#)] [[PDF](#)]
 21. Lippmann, R. P., R. K. Cunningham, D. J. Fried, S. L. Garfinkel, A. S. Gorton, I. Graf, K. R. Kendall, D. J. McClung, D. J. Weber, S. E. Webster, D. Wyschogrod, M. A. Zissman, "The 1998 DARPA/AFRL Off-Line Intrusion Detection Evaluation," [First International Workshop on Recent Advances in Intrusion Detection](#), Louvain-la-Neuve, Belgium, 1998. [[abstract](#)]

Refereed Book Chapters

1. Garfinkel, S. "Using S/MIME," in [Phishing and Countermeasures : Understanding the Increasing Problem of Electronic Identity Theft](#), Ed. Markus Jakobsson and Steven Myers. Wiley. 2006
2. Poe, Mya & Simson Garfinkel. "Security and Privacy in the Wireless Composition Classroom," in [Going Wireless: A Critical Exploration of Wireless and Mobile Technologies for Composition Teachers and Scholars](#). Ed. Amy C. Kimme Hae. Hampton Press. 2006.
3. Garfinkel, S. "RFID in Ubiquitous Commerce," in [Ubiquitous and Pervasive Commerce](#), Ed. George Roussos, Springer SMB, November 2005.
4. Garfinkel, S. "Sanitization and Usability," in [Usability and Security](#), Ed. Lorrie Cranor and Simson Garfinkel, O'Reilly, 2005.

Other Selected Publications

1. Garfinkel, S. [Right on Time? The Security Implications of the Humble Computer Clock](#), CSO Magazine, March 2, 2009
2. Garfinkel, S., and Rosenberg., B., "[Face Recognition: Clever or Creepy?](#)", Technology Review, February 27, 2009.
3. Garfinkel, S., and Cox, D., "[Finding and Archiving the Internet Footprint](#)," invited paper, British Library's Digital Lives Conference, London, England, February 2009.
4. Garfinkel, S. "[Data Fusion](#)," [Scientific American](#), September 2008.
5. Garfinkel, S. "[Document and Media Exploitation](#)," [ACM Queue](#), November/December 2007.

6. Garfinkel, S. "[An Evaluation of Amazon's Grid Computing Services: EC2, S3 and SQS](#)", Technical Report TR-08-07, School for Engineering and Applied Sciences, Harvard University, Cambridge, MA. July 2007.
7. Garfinkel, S. "[Commodity Grid and Computing with Amazon's S3 and EC2](#)," ;LOGIN:, February 2007, pp. 7-13, Usenix.
8. Garfinkel, S., [Massively Multiplayer Games As a Source of Terrorist Simulant Data](#), August 2003.
9. Garfinkel, S., [A Web Service for File Fingerprints: The Goods, the Bads, and the Unknowns](#), January 2003.
10. Garfinkel, S., Robertson, H., Elledge, C., Levine, J., [Syncframe: a Multi-Peer Synchronization Framework](#) December 2002.
11. Garfinkel, S., [Network Forensics: Tapping the Internet](#), The O'Reilly Network, April 26, 2002.
12. Shipley, P., Garfinkel, S., [An Analysis of Dial-Up Modems and Vulnerabilities](#), Spring 2001.
13. Garfinkel, S. "[Risks of Social Security Numbers](#)", *Communications of the ACM*, p. 146, October 1995.
14. Garfinkel, S. "[The Story of the Write Once File System](#)." IRIS Project, Brown University, August 1st, 1987
15. Garfinkel, S. [An Introduction to Computer Security](#), The Practical Lawyer, Volume 33, Number 6 and 7, September and October, 1987.
16. Garfinkel, S. and Love, S., "[A File System for Write-Once Media](#)," MIT Media Laboratory, October 1985.
17. Garfinkel, S. "[Game of LIFE on the IBM PC](#)." Dr. Dobb's Journal, Volume 8, Issue 6, June 1983.

Books

1. [Security and Usability](#), edited by Lorrie Cranor and Simson Garfinkel. 2005. (O'Reilly & Associates, Inc.)
2. [RFID : Applications, Security, and Privacy](#), edited by Simson Garfinkel and Beth Rosenberg. 2005. (Addison-Wesley Professional)
3. [Practical UNIX and Internet Security, 3rd Edition](#), co-authored with Gene Spafford and Alan Schwartz. 2003. (O'Reilly & Associates, Inc.)
4. [Building Cocoa Applications](#), with Michael K. Mahoney. 2002. (O'Reilly & Associates, Inc.)
5. [Web Security, Privacy and Commerce](#), with Gene Spafford. 2001. (O'Reilly & Associates, Inc.)
6. [Database Nation: The Death of Privacy in the 21st Century](#), 2000. (O'Reilly & Associates, Inc.)
7. [Architects of the Information Society](#), Edited by Hal Abelson. 1999 (MIT Press.) [\[chapter 1\]](#)
8. [Stopping Spam](#), co-authored with Alan Schwartz. 1998. (O'Reilly & Associates, Inc.)
9. [Web Security and Commerce](#), with Gene Spafford. 1997. (O'Reilly & Associates, Inc.)
10. [Practical UNIX and Internet Security](#), co-authored with Gene Spafford 1996. (O'Reilly & Associates, Inc.)
11. [PGP: Pretty Good Privacy](#). 1995. (O'Reilly & Associates, Inc.)
12. [The UNIX-HATERS Handbook](#), editor, with Daniel Weise and Steven Strassmann. 1994 (IDG Press)
13. [NeXTSTEP Programming](#) , with Michael Mahoney. 1992 (Springer-Verlag)
14. [Practical UNIX Security](#), with Gene Spafford. 1991 (O'Reilly & Associates, Inc.)

Patents

[United States Patent 7,023,854](#) (Granted April 4, 2006), Garfinkel, Packet interception system including arrangement facilitating authentication of intercepted packets. Filed November 17, 1999 (Continuation of Patent 6,678,270).

[United States Patent 6,993,661 \[pto\]](#) (Granted January 31, 2006), Garfinkel, System and method that provides for the efficient and effective sanitizing of disk storage units and the like Filed August 9, 2001.

[United States Patent 6,744,864 \[pto\]](#) (Granted June 1, 2004), Garfinkel, Adaptive Dialing System and Method. Filed May 18, 2000.

[United States Patent 6,678,270 \[pto\]](#) (Granted January 13, 2004), Garfinkel, Packet interception system including arrangement facilitating authentication of intercepted packets. Filed March 12, 1999.

[United States Patent 6,490,349 \[pto\]](#) (Granted December 3, 2002), Garfinkel et al., System and Method for Scan-Dialing Telephone Numbers and Classifying Equipment Connected to Telephone Lines Associated therewith. Filed December 19, 1998.

Fellowships, Honors and Awards

2005 George M. Sprowls Award for the best doctoral theses in computer science, Honorable Mention, awarded for "Design Principles and Patterns for Computer Systems That Are Simultaneously Secure and Usable" supervised by Robert Miller and David Clark.

[2005 Best Regular Column, Contributed](#) (Gold) (Northeast Region, Under 80,000 circulation), awarded by the American Society of Business Publication Editors (ASBPE), for the "Machine shop" series in [CSO Magazine](#). (Award granted for the July and September 2004 columns.)

[2005 Jesse H. Neal National Business Journalism Award](#), for Best Regularly Featured Department or Column, awarded to [CSO Magazine's](#) "Machine Shop" column, by Simson Garfinkel (edited by Elaine Cummings, designed by Chandra Tallman with Steve Traynor).

[2004 Best Regular Column, Contributed](#) (Gold) (National, Under 80,000), awarded by the [American Association of Business Publishers and Editors](#) (ASBPE), for the "Machine shop" series in [CSO Magazine](#). (Award granted for the April and May 2003 columns.)

[2004 Best Regular Column, Contributed](#) (Gold) (East Coast Region, Under 80,000 circulation), awarded by the American Society of Business Publication Editors (ASBPE), East Coast Region, for the "Machine Shop" series in [CSO Magazine](#).

[2004 Jesse H. Neal National Business Journalism Award](#), for Best Regularly Featured Department or Column, awarded to [CSO Magazine's](#) "Machine Shop" column, by Simson Garfinkel (edited by Elaine Cummings, designed by Chandra Tallman with Steve Traynor). [\[front\]](#) [\[back\]](#)

[2004 Jesse H. Neal National Business Journalism Award](#), Grand Neal Runner-up, 2nd place, [CSO Magazine](#), "Machine Shop."

[2003 Best Regular Column, Contributed](#) (Silver) (East Coast Region, Under 80,000 circulation), awarded by the American Society of Business Publication Editors, (ASBPE) for the "Machine Shop" series in [CSO Magazine](#).

2002-2005 MIT Presidential Fellowship, for study in the field of Computer Science at the Massachusetts Institute of Technology Laboratory for Computer Science.

2000 Best COMPUTERS IN SOCIETY book, Third Annual BookBytes Awards, awarded for [Database Nation: The Death of Privacy in the 21st Century](#).

[1999 Best Feature Series](#) (**West Coast Region, Circulation over 80,000**), awarded by the awarded by the American Society of Business Publication Editors, for the "Privacy in the Internet Age" feature series appearing in PC World Magazine.

[1997 Award of Merit](#) for Practical UNIX and Internet Security, International Technical Publications Competition, awarded by the Society for Technical Communication.

[1996 Award of Distinguished Technical Communication](#) (highest award) for Practical UNIX and Internet Security, STC Boston/NNE Technical Publications Competition, awarded by the Society for Technical Communication.

1994 Object Honors for best Training & Education product, awarded by SHL System House Ltd. for the book NeXTSTEP Programming .

[1991 Award of Merit](#) for Practical UNIX Security, awarded by Society for Technical Communication, Boston and Northern New England Chapters, in the 1990-1991 Competition for Technical Publications.

[1990 Award of Merit](#) for review article on Write Once File Systems, 1990 Society for Technical Communication, Boston and Northern New England Chapters, for 1989-1990 Competition for Technical Publications.

[1988 Elisabbeta DiCagno Award](#). "For the best investigative story on environmental protection or human rights." awarded by the Faculty of Journalism of Columbia University for masters' project on tenant screening databases.

[1987 Mark of Excellence Contest](#), first place, Newspaper Column Writing, Society of Professional Journalists Sigma Delta Chi, Region One.

[1987 Mark of Excellence Contest](#), second place, Non-Fiction Magazine Article, Society of Professional Journalists Sigma Delta Chi, Region One.

Invited Presentations (selected)

- ["IRBs and Computer Science Research"](#), presented at the Public Responsibility in Medicine and Research (PRIM&R) 2008 Advancing Ethical Research Conference, November 17--19, 2008, Orlando, FL.
- ["Common-Mode Failures: What can you do with 236 used hard drives?"](#), presented at FINSEC 2005, sponsored by the MSI Training Institute, New York, New York. December 7, 2005
- ["Ensure Proper Data Management with Discarded IT Assets"](#), presented to the Retail Data Systems Forum, November 3, 2005.
- ["Technology vs. Spam"](#), presentation to the FCC Technological Advisory Council, February 23, 2004.
- ["Speculating about Tomorrow's Threats."](#) Workshop on Network Threats, Washington, DC. November 2003
- "Privacy in the Post-9/11 world", John Marshall Law School, January 2002.
- "Web Security: Is our Time Running out?" ISSA NE Annual Meeting, November 2001.
- "Privacy in the 21st Century," Pop!Tech, Camden, Maine, October 2001.
- "Wireless Threats to Privacy and Security," July 2001,
- "A Survey of Broadband ISP Privacy Policies," May 2001
- "Introduction to Online Privacy," New Orleans, December 2000.

- "Wireless Communication Security," Computer Security Day, Celebramos Juntos el Día Internacional de la Seguridad en C'omputo, Mexico City, Mexico, November 2000.
- "An Introduction to Privacy and Data Protection," October 2000.
- "Linux Security," O'Reilly Open Source Conference, June 2000.
- "Data Protection," May 2000.
- "Thirty Years of Spam," Brightlight Spam Summit, Washington, DC, May 2000
- "Biometrics and Privacy," April 2000.
- "Extending the Privacy Bubble," The Internet Security Conference, Boston, MA, October 1999.
- "Technical Solutions to Minimize Security Exposures," Information Systems Security Association, 14th Annual Meeting, California, September 27, 1999.
- "Linux Security", O'Reilly OpenSource Conference, Monterey, California, August 1999.
- "How to build a website that really sucks," VERIO/Hiway Webhosting Conference, June 1999.
- "Web Security and Privacy," Smart Card Forum, June 1999.
- "Information Warfare in the 21st Century," GartnerGroup Information Security Conference, April 12-14, 1999, Chicago.
- "What's Next for SPAM?" SPAM Roundtable, March 1999, California.
- "Combating Telephone Intrusions," SANS Intrusion Detection 99, February 1999, San Diego, California.
- "Introduction to Information Warfare," presented at the TTI Vanguard conference on Risk, Security and Trust, May 14-15, 1998, Trianon Palace Versailles, France.
- "Web Technology: Usability, Security, Reliability & Commerce," Thursday, November 20, 1997, Brown University Department of Computer Science, Industrial Partners Program.
- "Privacy In the Next Century", October 21, 1997, University of Oswego, featured speaker at the [Digital Age](#) conference at SUNY Oswego.
- "[Computer Security Workshop](#)", October 17, 1997, SUNY Oswego, day-long conference on computer security.
- "Berkeley Roundtable on Software Innovation", April 26, 1996, speaking about software patents.
- "Internet Service Providers", Sixth Conference on Computers, Freedom & Privacy, March 29, 1996.
- "Online Communities" and "Privacy", New York Macintosh User's Fair, March 23, 1996.
- "Information at Whose fingertips?" PC Expo 95, speaking on cryptography.
- "Managing Internet Security." I/S Analyzer Case Studies, June 8th, 1995. Chicago.
- "Roadmap to the Big 1995 Cyberstories," Telecommunication Policy Roundtable--Northeast, January 18, 1995.
- "The Future of Object-Oriented Programming," Object Oriented Computing for the Natural Sciences, EMBL, Germany, November 1994.
- "The Software Patent Crisis," Connecticut Patent Law Association, October 5, 1994.
- "Electronic Publishing Problems," MIT, December 1993.

Professional Service

Current:

- **NPS IT Task Force** (2007--)
- **NPS Institutional Review Board (IRB)** (2007--)
- [Symposium on Usable Security and Privacy \(SOUPS\)](#) (2005--2009)
Tutorial instructor (2005);
Co-coordinator, workshop on user studies. (2006);
Program Co-chair, (2008--2009);

- **IEEE Security and Privacy Magazine**, (2003---)
Co-editor, Special issue on Security and Privacy, 2004.
Frequent reviewer for submitted articles.

Program Committees:

- Usability, Psychology, and Security (USEC07; UPSEC 2008)
- Digital Forensics Research Workshop (DFRWS 2007, 2008)
- Symposium on Usable Security and Privacy (SOUPS 2006, 2007, 2008)
- IDTrust 2009
- Privacy Enhancing Technologies Symposium (PETS 2007, 2008)
- Second Annual IFIP WG 11.9 International Conference on Digital Forensics
- RFID Privacy Workshop (2003)

Past:

- [Workshop on Data Surveillance and Privacy Protection](#) (2006)
Program Chair
- **Institute Security Advisory Committee**, MIT (2004---2005)
Member, Advisory Committee
- [RFID Privacy Workshop](#) August 2003 --- November 2003
Chair. Conceived and organized a conference on RFID privacy issues which took place at MIT on November 15, 2003. Arranged funding, solicited papers and presentations, served on the Program Committee, coordinated media coverage, and hosted event. Over 200 people, with speakers from across the globe, attended. Articles based on the workshop appeared in Wired News, ZD Net, and other prominent publications.
- [Liberty Science Center](#), Jersey City, NJ.
Member, Advisory Board, Communication Exhibition (2003---2006)
- [MIT Educational Council](#), Cambridge, MA.
Educational Counselor (working with MIT admissions staff to recruit MIT undergraduates and conduct interviews.) (2003---2005)
- **Information Technology Advisory Committee**, Belmont, MA. (2002--2007)
Secretary, Appointed by Town Selectmen in 2002; appointment renewed 2005. [\[appointment\]](#)
[\[minutes\]](#)
- **The Computer Museum**, Boston, MA. Volunteer (1992---1995)
Volunteer. Curated historic photography collection.

Corporate Affiliations

Current:

- [Basis Technology](#), Consulting Scientist. (2003---)
- [Technology Review Magazine](#), Columnist, Contributing Editor (Web and Print) (1998---)

Past:

- [Sandstorm Enterprises, Inc.](#), Founder, Treasurer, Member of the Board. (1998---2008)
- [Intellivid, Inc.](#), Member, Advisory Board (2003---2008)
- [CSO Magazine](#), Editor At Large, "[Machine Shop](#)," (2002---2007)

- **The Boston Globe**, Columnist, "Simson Says," (August 1996---April 2000)
 - **ePrivacy Group**, Founder, Advisor. (2000-2004)
 - **WIRED Magazine**, Contributing Writer, (1993---2001)
 - **Privada**, Member, Advisory Board. (1998-1999)
 - **HotWired**, Technology Columnist, (1996---1997)
 - **Internet Underground**, Editor At Large, (1996)
 - **SunExpert Magazine**, Senior Editor, (1994---1996)
 - **NeXTWORLD Magazine**, Senior Editor, (1991---1994)
 - **The Christian Science Monitor**, Science & Technology staff writer, (1989---1990)
 - **The Jerusalem Post**, Contributing Writer, (Summer 1986)
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Professional Societies

- [Association of Computing Machinery \(ACM\)](#), Member, 1984-
- [International High Technology Crime Investigation Association \(HTCIA\)](#), Member, 2006-
- [Institute of Electrical and Electronic Engineers \(IEEE\)](#), Member, 2002-
- [International Association of Privacy Professionals \(IAPP\)](#), Member, 2002-
- [Information Systems Security Association \(ISSA\)](#), Member, 2001-
- [National Association of Science Writers \(NASW\)](#), Member, 1988-
- [Sigma XI, The Scientific Research Society](#), Member, 2003-

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