

Rebecca N. Wright

DIMACS and Department of Computer Science
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Research Interests

Cybersecurity, privacy, applied cryptography, and foundations of networked computing. Designing protocols, systems, and services that perform their specified computational or communication functions even if some participants or underlying components behave maliciously.

Education

Yale University

New Haven, CT

Ph.D. in Computer Science, December 1994. Advisor: Professor Michael J. Fischer.

Dissertation: *Achieving Perfect Secrecy Using Correlated Random Variables*.

M.S. in Computer Science, May 1992.

Columbia University

New York, NY

A.B., May 1988.

Double major in Computer Science and Mathematics.

Professional Experience

Rutgers University

Piscataway, NJ

Professor, Department of Computer Science

July 2010 – present

Director, DIMACS

September 2011 – present

Graduate Faculty, Department of Electrical & Computer Engineering

February 2012 – present

Deputy Director, DIMACS

September 2007 – August 2011

Associate Professor, Department of Computer Science

September 2007 – June 2010

As Director of DIMACS (the Center for Discrete Mathematics and Theoretical Computer Science), set direction, run programs, and obtain funding. Engaged in research in security and privacy with a focus on privacy-preserving distributed protocols, foundations of networked computing, accountability, and voter registration databases.

Stevens Institute of Technology
Hoboken, NJ

Professor
September 2006 – July 2007

Associate Professor
September 2002 – August 2006

Conducted research in privacy and security with a focus on privacy-preserving data mining and other technologies that balance individual needs such as privacy with collective needs such as network survivability and public safety. Introduced privacy-preserving solutions for Bayesian networks, clustering, frequency mining, and k -anonymization. Co-developed a new cybersecurity undergraduate degree program.

Rutgers University
Piscataway, NJ

Visiting Research Associate, DIMACS
March–August 2002

Conducted research in privacy-preserving data mining and in shared-memory protocols resilient to malicious process behavior.

AT&T Labs—Research
Florham Park, NJ

Principal Technical Staff Member
1999 – 2002

Senior Technical Staff Member
1996 – 1999

Developed a broad research program in computer and communications security for distributed computer networks, spanning mathematical and empirical analysis of secure communication and fault-tolerant distributed computing. Specific topics include secure multiparty computation, Byzantine fault tolerance, and public-key infrastructures. Extended the notion of secure multiparty computation to approximation algorithms. Developed efficient solutions for privacy-protecting statistical analysis. Introduced probabilistic quorum systems.

AT&T Bell Laboratories
Murray Hill and Holmdel, NJ

Member of Technical Staff
1994 – 1996

Key contributor in the design and development of the Omega key management service, both as a research project and as a potential AT&T certificate authority (CA) service. Negotiated with Netscape to have Omega recognized as a CA in version 1.1 of Netscape's Web browser, one of the first to support public-key authentication. Developed a formal logic to extend reasoning about cryptographic protocols to include revocation, authentication, and security policies.

Teaching, Advising, and Mentoring

Rutgers University
Piscataway, NJ

2007 – Present

Courses taught:

- 01:198:294 Great Ideas and Applications in CS — Spring 2017, Spring 2018
- 16:198:500 Light Seminar on Secure Computation — Fall 2013
- 16:198:500 Light Seminar on Accountability in Online Life — Fall 2011
- 16:198:500 Light Seminar on Economics of Cybersecurity — Fall 2009
- 16:198:671 Privacy in a Networked World — Fall 2008
- 16:198:500 Light Seminar on Readings in Differential Privacy — Fall 2008
- 16:198:672 Theory of Distributed Computation — Fall 2007

Douglass-SAS-DIMACS Computer Science Living-Learning Community:

Co-founder (in 2016) and faculty advisor (2016–present) for the Douglass-SAS-DIMACS Computer Science Living-Learning Community (CS LLC) for first-year women at Rutgers. LLC participants live in a common residence hall and are provided with an educational, leadership development, and community-building program that supports their progress as Rutgers students and as computer science majors.

Douglass-DIMACS Computing Corps:

Co-founder (in 2012) and faculty advisor (2012–present). The Douglass-DIMACS Computing Corps is a group of women undergraduate students at Rutgers that meet biweekly through the academic year. Throughout the year, undergraduate students work with CS faculty and graduate students to design and carry out fun, educational, and interactive group activities for middle school girls to excite them about computing.

Ph.D. student thesis advising:

Geetha Jagannathan, Ph.D., 2010.

Dissertation: *Data Privacy in Knowledge Discovery*

Darakhshan Mir, Ph.D., 2013.

Dissertation: *Differential Privacy: An Exploration of the Privacy-Utility Landscape*

Jason Perry. Ph.D., 2015.

Dissertation: *Putting Secure Computation to Work*

Neil Lutz. Ph.D., 2017.

Dissertation: *Algorithmic Information, Fractal Geometry, and Distributed Dynamics*

Cong Zhang. Expected completion 2019.

Research areas: *Searchable Encryption*

Daniel Bittner. Expected completion 2021.

Research areas: *Privacy, Applied Cryptography, Machine Learning*

Additional Ph.D. student independent study advising:

Joseph Wegehaupt, Fall 2012, Spring 2013.

Sai Lu, Fall 2011, Spring 2012.

Syeda Arzoo Zehra, Spring 2009, Fall 2009.

Aleksander Nikolov, Fall 2009.

Imdadullah Khan, Winter 2008.

Additional doctoral committees:

Fatma Betül Durak, Rutgers University, 2017.
Erick Chastain, Rutgers University, 2016.
Aaron Segal, Yale University, 2016.
Debayan Gupta, Yale University, 2016.
Liina Kamm, University of Tartu, 2016. (As “opponent”)
Brian Thompson, Rutgers University, 2013.
Saman Zarandioon, Rutgers University, 2012.
Tin Lam, Rutgers University, 2011.
Gayathri Chandrasekaran, Rutgers University, 2011.
Andre Madeira, Rutgers University, 2009.
Justin Brickell, University of Texas at Austin, 2009.
Antonio Nicolosi, New York University, 2007.

Additional qualifying exam committees:

Fatma Betül Durak, Rutgers University, 2016.
Priya Govindan, Rutgers University, 2015.
Zhe Wang, Rutgers University, 2013.
Ana Paula Centeno, Rutgers University, 2012.
Chris Mansley, Rutgers University, 2010.
Chih-Cheng Chang, Rutgers University, 2009.
Brian Thompson, Rutgers University, 2009.
Andre Madeira, Rutgers University, 2008.

Undergraduate research students advised:

Gianna Schwarz, DIMACS REU program, Summer 2017.
Uttara Aggarwal, Fall 2010.
Leilani Gilpin (UC San Diego), DIMACS REU program, Summer 2010.
Swara Kopparty (Harvard), DIMACS REU program, Summer 2010.

Stevens Institute of Technology
Hoboken, NJ

2002 – 2007

Courses taught:

CS465 Privacy in a Networked World — Spring 2005
CS601 Algorithmic Complexity — Spring 2003, Spring 2004, Fall 2005, Spring 2007
CS625 Foundations of Distributed Computing — Fall 2002, Spring 2006
CS668 Foundations of Cryptography — Fall 2003, Fall 2004
CS693 Cryptographic Protocols — Spring 2005

Ph.D. students advised:

Michael de Mare, Ph.D., 2010.
Co-advisor: Stephen Bloom
Dissertation title: *Set Membership Using 3SAT*
Zhiqiang Yang, Ph.D., 2007.
Dissertation title: *Efficient Distributed Protocols for Privacy and Anonymity*
Awarded Outstanding Graduate Student Award, 2005

Geetha Jagannathan. Transferred to Rutgers Fall 2007.
Awarded Outstanding Graduate Student Award, 2006

Masters students advised:

Hiranmayee Subramaniam (M.S., 2003).
M.S. project: *Experimental Analysis of Privacy-Preserving Statistics*

Undergraduate research students advised:

Kelsey Livingston (Smith College) and Jennifer Tam (Tufts University)
Stevens/DIMACS REU project for Summer 2006
Project: *Authentication and Encryption for RFID Technology*

Christopher Guarino, Stevens Undergraduate Scholars' Project, Spring 2003
Project: *Economics and Incentives in Computer Security*

Postdocs supervised:

Sheng Zhong (DIMACS/Stevens postdoc, September 2004 – July 2005)
Sotiris Ioannidis (co-supervised with Susanne Wetzels, February 2005 – June 2007)
Vijay Ramachandran (February 2006 – July 2007)

University of California at Berkeley
Berkeley, CA

July 2006

Lecturer for the UC Berkeley TRUST Center's *Women's Institute in Summer Enrichment* program for graduate students, post-doctoral fellows and professors from all disciplines that are interested in ubiquitous secure technology and the social, political, and economical ramifications that are associated with this technology.

Rutgers University
Piscataway, NJ

August 2003

Organizer and lecturer for *DIMACS Tutorial on Applied Cryptography and Network Security*, August 4–7, 2003, held as part of the *DIMACS 2003–2006 Special Focus on Communication Security and Information Privacy*.

Rutgers University
Piscataway, NJ

Summer 2002

Mentor for student Ursula Whitcher (Swarthmore) in the DIMACS *Research Experience for Undergraduates* program.

AT&T
Florham Park, Murray Hill, and Holmdel, NJ

1994–2002

Maintained a strong commitment to students. Supervised undergraduate students Elizabeth Belding (now a Professor at UC Santa Barbara) and Sara Spalding in summer research projects at AT&T. Member of AT&T's Undergraduate Research Program Committee, 1998–2000. Participated in AT&T's Student Research Day.

Institute for Advanced Studies
Princeton, NJ

Summer 2000

Lecturer for *Cryptographic Complexity Theory*, IAS/Park City Mathematics Institute
Mentoring Program for Women in Mathematics, a program for undergraduate and graduate students and postdoctoral researchers in mathematics.

Rutgers University
Piscataway, NJ

Summer 1995

Research project leader for DIMACS's *Young Scholars Program* for high school students.

Polytechnic University
Brooklyn, NY

Adjunct Faculty
Spring 1996

Taught *Information, Privacy, and Security*, a graduate course on practical and theoretical aspects of computer security.

Awards and Honors

Institute of Electrical and Electronic Engineers, *Fellow*, for Contributions to Applied Cryptography and Privacy, 2018.

Association of Computing Machinery, *Distinguished Member*, for Scientific Contributions to Computing, 2017.

National Academy of Engineering, *Armstrong Endowment for Young Engineers – Gilbreth Lectureship*, 2008.

Association for Computing Machinery, *Recognition of Service Award*, 2006.

Stevens Institute of Technology, *Master of Engineering, Honoris Causa*, 2006.

Stevens Institute of Technology, *Research Recognition Award*, 2004.

National Science Foundation, *University–Industry Postdoctoral Research Associateship in the Mathematical Sciences*, March 1994. (Awarded by NSF but declined by Wright.)

Yale University, *John F. Enders Fellowship*, Summer 1993.

Yale University, *Theres and Dennis M. Rohan Fellowship*, September 1992 – May 1993.

Yale University, *University Fellowship*, September 1989 – May 1992.

National Science Foundation, *Graduate Research Fellowship, Honorable Mention*, 1989.

Barnard College, *Senior Certificate of Distinction*, 1988.

Grants and Gifts

National Science Foundation, *RCN: DIMACS/Simons Collaboration on Lower Bounds in Complexity Theory*, October 2018–September 2021, Principal Investigator, \$499,490.

National Science Foundation, *RCN: DIMACS/Simons Collaboration in Bridging Continuous and Discrete Optimization*, NSF CCF-1740425, September 2017–August 2020, Principal Investigator, \$500,000.

European Commission, *Accelerating EU-US Dialogue for Research and Innovation in Cyber-Security and Privacy (AEGIS)*, EC 740647, May 2017–April 2019, Partner, €500,000, Rutgers portion €22,300.

National Science Foundation, *EAGER: Collaborative: Algorithmic Framework for Anomaly Detection in Interdependent Networks*, NSF CNS-1646856, September 2016–August 2019, Principal Investigator, \$200,057. (This is a collaborative project with another NSF grant awarded simultaneously to the University of Tennessee, for a total, including Rutgers, of \$299,995.)

National Science Foundation, *BD Spokes: PLANNING: NORTHEAST: Collaborative: Planning for Privacy and Security in Big Data*, NSF IIS-1636764, September 2016–March 2019, Principal Investigator, \$89,963. (This is a collaborative project with another NSF grant awarded simultaneously to Pennsylvania State University (later transferred to Boston University), for a total, including Rutgers, of \$99,963.)

National Science Foundation, *REU Site: DIMACS REU in Computing Theory and Applications Impacting Society*, NSF CCF-1559855, April 2016–March 2019, Principal Investigator, \$383,771.

Verisign, *Differential Privacy, Multi-target Search, and Anomaly Detection*, unrestricted gift from Verisign Labs through their University Gift/Collaboration program, November 2015, \$25,000.

Galois, Inc., *Jana: Ensuring Secure, Private and Flexible Data Access*, subcontract on grant from DARPA, September 2015–March 2020, Principal Investigator, \$1,013,723.

National Science Foundation, *Computer Science Living-Learning Community for Women at Rutgers*, NSF DUE-1504775, July 2015–June 2019, Principal Investigator, \$249,999.

National Science Foundation, *RCN: DIMACS/Simons Collaboration in Cryptography*, NSF CCF-1523467, May 2015–April 2019, Principal Investigator, \$500,000.

National Science Foundation, *CIRCLE: Catalyzing and Integrating Research, Collaboration, and Learning in Computing, Mathematics, and their Applications*, NSF CCF-1445755, August 2014–July 2019, Principal Investigator, \$1,059,999.

National Science Foundation, *2014 NSF/DIMACS Workshop for Aspiring PIs in Secure and Trustworthy Cyberspace*, NSF CNS-1441026, May 2014–April 2015, Principal Investigator, \$99,987.

National Science Foundation, *REU Site: DIMACS REU in Computing Theory and Multidisciplinary Applications*, NSF CCF-1263082, April 2013–March 2017, Principal Investigator, \$360,699.

Yale, *Systematization of Secure Computation*, subcontract on grant from DARPA, January 2013–February 2015, Principal Investigator, \$311,784.

National Science Foundation, *BIGDATA: Mid-Scale: ESCE: Collaborative Research: Discov-*

ery and Social Analytics for Large-Scale Scientific Literature, NSF IIS-1247696, January 2013–December 2018, Principal Investigator, \$1,004,784. (This is a collaborative project with two other NSF grants awarded simultaneously to Princeton (later transferred to Columbia) and Cornell, for a total, including Rutgers, of \$2,998,873. Dr. Paul Kantor was the Rutgers PI until his retirement.)

National Science Foundation, *Enhancing the Capacity for Information Assurance Education Through Interdisciplinary Collaboration*, NSF DGE-1241315, November 2012–October 2015, Co-Principal Investigator, \$292,670.

National Science Foundation, *Workshop for Aspiring PIs in Secure and Trustworthy Cyberspace*, NSF CNS-1265542, October 2012–September 2013, Principal Investigator, \$99,992.

Applied Communication Sciences, *SPADE: Secure and Private Database Execution*, subcontract on grant from **IARPA**, October 2011–March 2013, Principal Investigator, \$203,857.

Applied Communication Sciences, *EPP-SCOT: Encrypted Private Publish-Subscribe using Conditional Oblivious Transfer*, subcontract on grant from **IARPA**, October 2011–March 2013, Principal Investigator, \$64,814.

National Science Foundation, *Three New DIMACS Special Focus Programs*, NSF CCF-1144502, September 2011–August 2017, Principal Investigator, \$698,995.

National Science Foundation, *Distributed Computing with Adaptive Heuristics*, NSF CCF-1101690, September 2011–August 2015, Principal Investigator, \$398,267.

University of California – San Diego, *US and China Workshop Series to Build a Collaborative Framework for Developing Shared Software Infrastructure*, subcontract on grant from **National Science Foundation**, September 2011–August 2012, Principal Investigator, \$21,623.

National Science Foundation, *Efficient Privacy Methods using Linear Programming*, NSF CCF-1018445, September 2010–August 2014, Co-Principal Investigator, \$499,274.

National Science Foundation, *CMISS: DIMACS Project on CS/Math in Service to Society*, NSF CCF-1032010, September 2010–August 2014, Principal Investigator, \$800,000.

National Science Foundation, *Accountability and Identifiability*, NSF CNS-1018557, August 2010–July 2014, Principal Investigator, \$249,991. (This is a collaborative project with another NSF grant awarded simultaneously to Yale, for a total, including Rutgers, of \$499,991.)

National Science Foundation, *The Value of Computational Thinking Across Grade Levels*, NSF DRL-1020201, July 2010–June 2015, Co-Principal Investigator, \$2,105,009.

National Science Foundation, *Second INCO-TRUST Workshop*, NSF CNS-1040356, July 2010–June 2013, Principal Investigator, \$90,907.

National Science Foundation, *REU Site: DIMACS/DIMATIA U.S./Czech International REU Program*, NSF CNS-1004956, March 2010–February 2014, Principal Investigator, \$621,583.

National Science Foundation, *First INCO-TRUST Workshop*, NSF CNS-0925990, October 2009–September 2010, Principal Investigator, \$49,121.

National Science Foundation, *AUSTIN – An Initiative to Assure Software Radios have Trusted Interactions*, NSF CNS-0910557, September 2009–August 2012, Co-Principal Investigator, \$410,000. (This is a collaborative project with NSF grants awarded simultaneously to U. Mass–Amherst and Virginia Polytechnic Institute, for a total, including Rutgers, of \$1,000,000.)

National Science Foundation, *Computer Science and Decision Making*, NSF CCF-0916782, September 2009–August 2013, Co-Principal Investigator, \$300,000.

Rutgers University Academic Excellence Fund, *The Rutgers University Research Initiative on Cybersecurity Economics*, July 2009–June 2010, Principal Investigator, \$60,000.

United States – Israel Binational Science Foundation. *Interdisciplinary Workshop on Data Privacy*, 20080208-00004698, February 2008–January 2009, Co-Principal Investigator, \$30,000.

National Science Foundation, *DIMACS Special Focus on Algorithmic Foundations of the Internet*, NSF CNS-0721113, October 2007–September 2011, Co-Principal Investigator, \$311,867.

National Science Foundation, *Mitigating Exploits of the Current Interdomain Routing Infrastructure*, NSF CNS-0716511 (to Stevens) and NSF CNS-0753061 (to Rutgers), September 2007–August 2011, Principal Investigator, \$259,035. (This award was transferred from Stevens to Rutgers in 2008. This is a collaborative project with another NSF grant awarded simultaneously to Tulane and also transferred to Rutgers, for a total, including Rutgers, of \$422,800.)

Galois Connections, Inc., *Automated Wide-Area Network Configuration from High-Level Specifications*, subcontract on *Phase-1 DARPA-STTR contract*, September 2006–September 2007, Principal Investigator, \$8,735.

Sun Microsystems, *Sun Academic Excellence Award*, T-US-837331-B, July 2006, Co-Principal Investigator, \$24,658.

National Science Foundation, *Incentive-Compatible Protocols*, NSF CNS-0524139 (to Stevens) and NSF CNS-0751674 (to Rutgers), September 2005–August 2009, Principal Investigator, \$212,500. (This award was transferred from Stevens to Rutgers in 2007. This is a collaborative project with another NSF grant awarded simultaneously to SUNY Buffalo, for a total, including Rutgers, of \$425,000.)

National Science Foundation, *Cybersecurity Laboratory: Translating Theory into Practice*, NSF DUE-0516788, September 2005–August 2008, Co-Principal Investigator, \$125,001.

Stevens Wireless Network Security Center, *Prototyping of Privacy-Preserving Bayes Network Structure*, August 2004–August 2005, Principal Investigator, \$90,000.

National Science Foundation, *Capacity Building through Interdisciplinary Degrees in Cybersecurity*, NSF DUE-0417085, July 2004–June 2007, Co-Principal Investigator, \$297,003.

National Science Foundation, *Sensitive Information in a Wired World*, NSF CNS-0331584 (to Stevens) and NSF CNS-0822269 (to Rutgers), October 2003–September 2009, Principal Investigator, \$888,001. (This award was transferred from Stevens to Rutgers in 2008. This is a collaborative project with four other NSF grants awarded simultaneously to Stanford, Yale, NYU and University of New Mexico, for a total, including Stevens, of \$12,500,000.)

New Jersey Institute of Technology Center for Wireless Networking and Internet Security, *Practical Optimizations to Privacy-Preserving Statistics Computation*, subcontract on grant from **New Jersey Commission on Science and Technology**, September 2003–December 2003, Principal Investigator, \$13,640.

Stevens Wireless Network Security Center, *Privacy-Preserving Data Mining for Homeland Security*, August 2002–August 2004, Principal Investigator, \$205,851.

Professional Activities

Mathematics and Physical Sciences Scientific Advisory Board, *Simons Foundation*, 2018–present.

Fellows Committee, *IEEE Computer Society*, 2018.

Advisory Board, *CISPA-Stanford Center for Cybersecurity*, 2017–present.

Privacy and Technology Advisory Board, *Electronic Registration Information Center (ERIC)*, 2014–present.

Board, *Committee on the Status of Women in Computing Research of the Computing Research Association (CRA-W)*, 2012–present.

Scholar Selection Director, SWSIS Scholarships for Women Studying Information Security, 2014–present. A joint project of the Committee on the Status of Women in Computing Research (CRA-W) and Applied Computer Security Associates (ACSA).

Advisory Committee, *Computer Research Association Center for Evaluating the Research Pipeline (CERP)*, 2012–present.

Committee on State Voter Registration Databases, *The National Academies*, 2007–2010.

Computing Innovations Fellows Selection Committee, *a project of the Computing Community Consortium and the Computing Research Association*, 2009.

Board of Directors, *International Association for Cryptologic Research (IACR)*, 2001–2005. (2001–2002, appointed position. 2002–2005, elected position.)

Advisory Board, Columbia University Computer Science Department, 2008–2010.

Founder, *ProfessHers mailing list*. **Moderator**, 2008–2016. Sponsored by the Committee on the

Status of Women in Computing Research of the Computing Research Association (CRA-W).

Founder, *ny-sec mailing list*. **Moderator**, 2003–2007.

Editorial Boards:

- **Editorial Board**, *PeerJ Computer Science*, 2015–present.
- **Editorial Board**, *Transactions on Data Privacy* (sponsored by the Artificial Intelligence Research Institute of the Spanish Higher Research Council, the UNESCO Chair in Data Privacy, and the Catalan Association of Artificial Intelligence), 2008–present.
- **Editorial and Advisory Board**, *International Journal of Information and Computer Security*, 2004–2017.
- **Editorial Board**, *Journal of Computer Security*, 2001–2011.
- **Editorial Board**, *The Handbook of Information Security*, Wiley, Hossein Bidgoli, editor, 2005.

Conference and Workshop Organizational Leadership:

- **Steering Committee**, *ACM Conference on Computer and Communications Security*, 2018–present.
- **Local Arrangements Co-Chair**, *57th Annual IEEE Symposium on Foundations of Computer Science*, October 9–11, 2016.
- **Local Arrangements Co-Chair**, *55th Annual IEEE Symposium on Foundations of Computer Science*, October 19–21, 2014.
- **Chair**, *2014 NSF/DIMACS Workshop for Aspiring PIs in Secure and Trustworthy Cyberspace*, August 17, 2014.
- **Co-Chair**, *DIMACS/BIC/A4Cloud/CSA International Workshop on Trustworthiness, Accountability and Forensics in the Cloud*, June 6–7, 2013.
- **Local Arrangements Co-Chair**, *53rd Annual IEEE Symposium on Foundations of Computer Science*, October 20–23, 2012.
- **Chair**, *NSF/DIMACS Workshop for Aspiring PIs in Secure and Trustworthy Cyberspace*, October 15, 2012.
- **U.S. Chair**, *INCO-TRUST Workshop on International Cooperation in Security and Privacy: International Data Exchange with Security and Privacy—Applications, Policy, Technology, and Use*, May 3–5, 2010. Sponsored by the National Science Foundation and the European Commission.
- **U.S. Chair**, *INCO-TRUST Workshop on International Co-operation in Trustworthy Systems: Security, Privacy and Trust in Large-Scale Global Networks and Services as Part of the Future Internet*, March 31–April 1, 2009. Sponsored by the National Science Foundation and the European Commission.
- **Steering Committee**, *Information Security Conference*, 2006–2010.
- **Tutorials Chair**, *12th ACM Conference on Computer and Communications Security*, 2005.

- **U. S. Chair**, *2nd Japan/US Workshop on Critical Information Infrastructure Protection*, June 26–27, 2005. Sponsored by the National Science Foundation and the Japan Science and Technology Agency.
- **DIMACS Executive Committee**, *Stevens Institute of Technology representative*, 2005–2007.
- **General Chair**, *Crypto 2002*.
- **Rump Session Chair**, *Financial Cryptography 2001*.
- **Invited session organizer**, “Computer Security,” *Grace Murray Hopper Celebration of Women in Computing*, Cape Cod, MA, September 14–16, 2000.
- **DIMACS Projects Committee**, 1996–2002.

Conference and Workshop Program Committees:

- *2nd International Symposium on Cyber Security, Cryptography, and Machine Learning*, Be’er Sheva, Israel, June 21–22, 2018.
- *Symposium and Bootcamp on the Science of Security*, Raleigh, NC, April 10–11, 2018.
- *Grace Hopper Celebration of Women in Computing, Security/Privacy track*, Houston, TX, October 19–21, 2016.
- *32nd International Conference on Data Engineering*, Helsinki, Finland, May 16–20, 2016.
- *Symposium and Bootcamp on the Science of Security*, Urbana-Champaign, IL, April 21–22, 2015.
- *ACM Symposium on Principles of Distributed Computing*, Paris, France, July 15–19, 2014.
- *Symposium and Bootcamp on the Science of Security*, Raleigh, NC, April 8–9, 2014.
- *Fourth International Conference on Web Science*, Evanston, IL, June 22–24, 2012.
- *6th Workshop on the Economics of Networks, Systems, and Computation*, San Jose, CA, June 6, 2011.
- *9th International Conference on Cryptology and Network Security*, Kuala Lumpur, Malaysia, December 12–14, 2010. **Program Co-Chair**.
- *12th International Symposium on Stabilization, Safety, and Security of Distributed Systems*, New York, NY, September 20–22, 2010. **Track Co-Chair**, Security.
- *The World Wide Web Conference*, Raleigh, NC, April 26–30, 2010. **Area Chair**, Security and Privacy.
- *Engaging Data: First International Forum on the Application and Management of Personal Electronic Information*, Cambridge, MA, October 12–13, 2009.
- *30th IEEE Symposium on Security and Privacy*, Oakland, CA, May 17–19, 2009.
- *15th ACM Conference on Computer and Communications Security*, Alexandria, VA, October 27–31, 2008.
- *1st ACM Workshop on Security and Artificial Intelligence*, Alexandria, VA, October 27, 2008.
- *17th ACM Conference on Information and Knowledge Management*, Napa, CA, October 26–30, 2008. **Track Chair**.

- *2nd ACM SIGKDD International Workshop on Privacy, Security, and Trust in KDD*, Las Vegas, NV, August 24, 2008.
- *8th Privacy Enhancing Technologies Symposium*, Leuven, Belgium, July 23–25, 2008.
- *28th International Conference on Distributed Computing Systems*, Beijing, China, June 17–20, 2008.
- *Interdisciplinary Studies in Privacy and Security*, New Brunswick, NJ, May 12, 2008.
- *International Workshop on Practical Privacy-Preserving Data Mining*, Atlanta, GA, April 26, 2008.
- *16th Usenix Security Symposium*, Boston, MA, August 6–10, 2007.
- *11th Pacific-Asia Conference on Knowledge Discovery and Data Mining*, Nanjing, China, May 22–25, 2007.
- *13th ACM Conference on Computer and Communications Security*, Alexandria, VA, October 30 – November 3, 2006. **Program Chair.**
- *2006 IEEE Symposium on Security and Privacy*, Oakland, CA, May 21–24, 2006.
- *15th International World Wide Web Conference*, Edinburgh, Scotland, May 2006.
- *12th ACM Conference on Computer and Communications Security*, Alexandria, VA, November 7–11, 2005.
- *11th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, Chicago, IL, August 21–24, 2005.
- *Crypto 2005*, Santa Barbara, CA, August 14–18, 2005.
- *Fifth SIAM International Conference on Data Mining*, Newport Beach, April 21–23, 2005. **Vice Program Chair.**
- *13th Usenix Security Symposium*, San Diego, CA, August 9–13, 2004.
- *Eurocrypt 2004*, Interlaken, Switzerland, May 2–May 6, 2004.
- *Eighth International Financial Cryptography Conference*, Key West, FL, February 9–12, 2004.
- *ACM Workshop on Privacy in the Electronic Society*, Washington DC, October 30, 2003.
- *Seventh International Financial Cryptography Conference*, Guadeloupe, French West Indies, January 27–30, 2003. **Program Co-Chair.**
- *ACM Workshop on Privacy in the Electronic Society*, Washington DC, November 21, 2002.
- *ACM Workshop on Scientific Aspects of Cyber Terrorism*, Washington DC, November 21, 2002.
- *15th IEEE Computer Security Foundations Workshop*, Nova Scotia, June 24–26, 2002.
- *Eurocrypt 2002*, Amsterdam, Netherlands, April 28–May 2, 2002.
- *Sixth International Financial Cryptography Conference*, Bermuda, March 11–14, 2002.
- *Eighth Annual ACM Conference on Computer and Communications Security*, Philadelphia, PA, November 5–8, 2001.
- *14th IEEE Computer Security Foundations Workshop*, Nova Scotia, June 11–13, 2001.

- *Tenth International World Wide Web Conference*, Hong Kong, May 2001.
- *Crypto 2000*, Santa Barbara, CA, August 20–24, 2000.
- *Seventh Annual ACM Conference on Computer and Communications Security*, Athens, Greece, November 1–4, 2000.
- *Crypto '97*, Santa Barbara, CA, August 17–21, 1997.
- *Third ACM Conference on Computer and Communications Security*, New Delhi, India, March 14–16, 1996.

Workshop and Special Focus Organizing Committees:

- *DIMACS / Northeast Big Data Hub Workshop on Overcoming Barriers to Data Sharing including Privacy and Fairness*, Rutgers University, Piscataway, NJ, October 23-24, 2017.
- *DIMACS / Northeast Big Data Hub Workshop on Privacy and Security for Big Data*, Rutgers University, Piscataway, NJ, April 24-25, 2017.
- *DIMACS Big Data Initiative on Privacy and Security*, 2016-2018.
- *DIMACS Special Focus on Cryptography*, 2015-2018.
- *DIMACS/RUCIA Workshop on Information Assurance in the Era of Big Data*, Rutgers University, Piscataway, NJ, February 6, 2014.
- *CCICADA/DIMACS Brainstorming Workshop on Cybersecurity Education*, Rutgers University, Piscataway, NJ, October 7, 2013.
- *Dagstuhl Workshop on Privacy-Oriented Cryptography*, Schloss Dagstuhl – Leibniz-Zentrum für Informatik, Germany, September 16–21, 2012.
- *DIMACS Special Focus on Cybersecurity*, 2011-2017.
- *Security and Privacy Day*, Rutgers University, Piscataway, NJ, May 15, 2009.
- *BSF/DIMACS/DyDAn Workshop and Working Group on Data Privacy*, Rutgers University, Piscataway, NJ, February 4–7, 2008.
- *DIMACS/DyDAn Workshop on Mathematical and Computational Methods for Information Security*, Texas Southern University, Houston, TX, December 7, 2007.
- *Workshop on Privacy Aspects of Data Mining*, Omaha, NE, October 28, 2007. Held in conjunction with the Seventh IEEE International Conference on Data Mining.
- *AIM Workshop on Generic Case Complexity*, American Institute of Mathematics, Palo Alto, CA, August 13–17, 2007.
- *DIMACS Special Focus on Algorithmic Foundations of the Internet*, 2007-2014.
- *IBM Research / Stevens Institute of Technology / Columbia University Security and Privacy Day*, IBM Research, Hawthorne, NY, November 13, 2006.
- *Stevens / Columbia / IBM Research Security and Privacy Day*, Stevens Institute of Technology, Hoboken, NJ, November 14, 2005.
- *Workshop on Privacy and Security Aspects of Data Mining*, Houston, TX, November 27, 2005. Held in conjunction with the Fifth IEEE International Conference on Data Mining.
- *DIMACS/PORTIA Workshop and Working Group on Privacy-Preserving Data Mining*, Rutgers University, Piscataway, NJ, March 15–17, 2004.

- *3rd Stevens Symposium on Cybersecurity and Trustworthy Software*, Stevens Institute of Technology, Hoboken, NJ, March 26, 2004.
- *Workshop on Foundations of Computer Security*, Copenhagen, Denmark, July 25–26, 2002. Held in conjunction with the 17th IEEE Symposium on Logic in Computer Science.
- *DIMACS Workshop on Networks Threats*, Rutgers University, Piscataway, NJ, December 4–6, 1996.

Grant Proposal Review:

- *National Science Foundation*, 20 grant proposal review panels, two site visits, and several ad hoc reviews, 2002–present.
- *Natural Sciences and Engineering Research Council of Canada*, 2014.
- *Canada Foundation for Innovation*, 2004, 2012.
- *Lawrence Livermore National Labs*, Strategic Initiative review, 2008.
- *Austrian Science Fund*, 2007.
- *American Mathematical Society for National Security Agency*, Mathematical Sciences Program, 2006, 2008.
- *Israel Science Foundation*, 2006.
- *Oak Ridge Institute for Science and Education*, 2002.
- *Hong Kong Research Grants Council*, 2001.

Referee for various journals, including *Journal of Cryptology*, *Data and Knowledge Engineering*, *Distributed Computing*, *International Journal of Information Security*, *IEEE Transactions on Engineering Management*, and *Journal of the ACM*.

Rutgers Committees:

- *Computer Science Department committees*
 - Executive Committee, 2009–2013, 2015–2017. (Elected position.)
 - Faculty Search Committee, 2010–2011. (Co-chair.)
 - Publicity Committee, 2008–2009.
 - Peer Evaluation Committee, 2007–2008. (Elected position.)
 - Teaching Effectiveness Committee, 2007–2008.
- *Other Rutgers committees*
 - School of Graduate Studies Executive Council, 2018–present
 - School of Arts and Sciences Rules of Procedure Committee, 2015–2016.
 - School of Engineering Dean Evaluation Committee, 2013–2014.
 - Strategic Planning Committee on Envisioning Tomorrow’s University, 2013.
 - Computing Coordination Council, 2009–present.
 - School of Arts and Sciences Committee on Faculty Development, 2011.
 - School of Engineering, Dean Search Committee, 2008–2009.

Stevens Institute Committees:

- *Computer Science Department committees*
 - Faculty Search Committee, 2006–2007. (Chair).
 - PhD Committee, 2003–2007. (Chair, 2006–2007).
 - Quals Committee, 2003–2007.
 - Web Coordinator, 2002–2006.
- *Other Institute committees*
 - Faculty Council, 2006–2007. (Elected position.)
 - Board of Trustees Strategy Committee, 2006–2007. (Elected position.)
 - Committee on Committees, 2004–2006. (Elected position. Chair, 2005–2006.)
 - Undergraduate Academic Standards Committee, 2003–2005. (Elected position. Chair, 2004–2005.)
 - Board of Trustees Faculty Development Committee, 2004–2005.

Selected Invited Talks

Hasso Plattner Institute Cybersecurity Symposium on Big Data and Artificial Intelligence: Driving the Future of Cybersecurity, *Protecting Your Digital Identities*, Keynote Speaker, New York, NY, September 25–26, 2018.

CRA-W Distinguished Lecture Series, *Privacy in Today's World*, New Jersey Women in Computing Celebration, Kean College, Union, NJ, April 4, 2018.

Muhlenberg College Lectures & Forum and Math/CS Colloquium, *Privacy in Today's World*, February 9, 2018.

2017 ACM CCS Workshop on Women in Cyber Security, *Privacy in Today's World*, Keynote Speaker, Dallas, TX, October 30, 2017.

Federal Privacy Research and Development Interagency Working Group, *Differentially Private Anomaly Detection*, Invited Briefing, August 1, 2017.

CRA-W Virtual Undergraduate Town Hall Series, *Privacy in Today's World & Getting Involved in CS Extra-curricular Activities*, online presentation hosted by Computing Research Association – Women, April 18, 2017.

The 15th International Information Security for South Africa Conference, *Differential Privacy in Practice*, Keynote Speaker, Johannesburg, South Africa, August 17–18, 2016.

Celebration of Ada Lovelace Day, *How Safe is Your Information Online*, Hofstra University, Hempstead, NY, October 14, 2014.

The New Jersey Governor's School of Engineering and Technology, *Privacy in a Data-Rich World*, Keynote Speaker, Rutgers School of Engineering, Piscataway, NJ, July 16, 2014.

Privacy in a Big Data World – A Symposium of the National Academies Board on

Research Data and Information, *Changing Landscapes in Privacy in a Big Data World*, Washington, DC, September 23, 2013.

Center for Interdisciplinary Studies in Security and Privacy INSPIRE(d) Seminar, *Differentially Private Modeling of Human Mobility at Metropolitan Scales*, NYU Polytechnic University, Brooklyn, NY, May 8, 2013.

Security and Privacy Day, *Differentially Private Modeling of Human Mobility at Metropolitan Scales*, Stevens Institute of Technology, Hoboken, NJ, May 17, 2013.

The 5th International Workshop on Privacy and Anonymity in the Information Society, *Privacy and Accountability in the Information Society*, **Keynote Speaker**, Berlin, Germany, March 30, 2012.

Women in Theory, *Privacy and Accountability in the Information Society*, Princeton University, Princeton, NJ, June 23–27, 2012.

Secure Knowledge Management Workshop, *Strategic Policies for Cyberdeterrence: A Game-Theoretic Framework*, Rutgers University, Piscataway, NJ, October 21–22, 2010.

China Computer Federation Conference on Future Computing, *Economics of Cybersecurity*, **Keynote Speaker**, Changsha, China, June 17–18, 2010.

Security and Privacy Day, *Strategic Policies for Cyberdeterrence: A Game-Theoretic Framework*, Stevens Institute of Technology, Hoboken, NJ, May 28, 2010.

Workshop on Cryptographic Protocols and Public-Key Cryptography, *Rationality and Traffic Attraction: Incentives for Honest Path Announcements in BGP*, Bertinoro, Italy, May 24–29, 2009.

Dagstuhl Workshop on Model-Based Design of Trustworthy Health Information Systems, *The Cancer Institute of New Jersey's Tissue Repository: A Privacy and Security Case Study*, Schloss Dagstuhl, Germany, February 11–14, 2009.

Columbia University Security Seminar, *Privacy-Preserving Data Mining: Extending the Boundary*, Columbia University, New York, NY, April 23, 2008.

Gilbreth Lectures for Young Engineers, National Meeting of the National Academy of Engineering, *Privacy in a Networked World*, Irvine, CA, February 7, 2008.

Frontiers of Engineering Symposium of the National Academy of Engineering, *Privacy in a Networked World*, Redmond, WA, September 24–26, 2007.

Workshop on Cryptographic Protocols, *Privacy-Preserving Imputation of Missing Data*, Bertinoro, Italy, March 4–9, 2007.

IPAM Workshop on Locally Decodable Codes, Private Information Retrieval, Privacy-Preserving Data-Mining, and Public Key Encryption with Special Properties, *Privacy-*

Preserving Bayesian Network Learning and Other Recent Results in Privacy-Preserving Data Mining, University of California, Los Angeles, CA, October 25–28, 2006.

Workshop on Computational Methods for Security in a Web Environment, *Privacy-Preserving Data Mining*, Universidad de Tarapacá, Arica, Chile, July 23–27, 2006.

TAMI/Portia Privacy and Accountability Workshop, *Accountability in Privacy-Preserving Data Mining*, Massachusetts Institute of Technology, Cambridge, MA, June 28–29, 2006.

Workshop on Data Surveillance and Privacy Protection, *Progress on the PORTIA Project in Privacy-Preserving Data Mining*, Harvard University Center for Research on Computation and Society, Cambridge, MA, June 3, 2006.

Five-College Speaker Series on Information Assurance, *Privacy-Preserving Data Mining in the Fully Distributed Model*, University of Massachusetts, Amherst, MA, October 17, 2005.

MADNES Workshop on Secure Mobile Ad-Hoc Networks and Sensors, *Privacy-Preserving Data Mining in the Fully Distributed Model*, **Keynote Speaker**, Singapore, September 21–22, 2005.

CS-Statistics Workshop on Privacy and Confidentiality, *Privacy-Enhancing k -Anonymization of Customer Data*, Bertinoro, Italy, July 9–15, 2005.

University of Tsukuba Laboratory of Cryptography and Information Security, *Privacy-Enhancing k -Anonymization of Customer Data*, University of Tsukuba, Tsukuba, Japan, June 24, 2005.

1st International Interdisciplinary Congress of Scientific Research, *The PORTIA project: Privacy, Obligations, and Rights in Technologies of Information Assessment*, Boca Chica, Dominican Republic, June 8–9, 2005.

10th Meeting of the Science, Technology, and Law Panel of the National Academies, *The Use of Commercial Databases for National Security: Privacy, Evaluation, and Accuracy*, Washington DC, 18 March, 2005.

U.S.–Japan Experts Workshop on Critical Information Infrastructure Protection, *Privacy-Preserving Bayesian Network Structure Computation on Distributed Heterogeneous Data*, National Science Foundation, Washington, DC, September 28–29, 2004.

Stanford University Crypto and Database Privacy Group Meetings, *Privacy-Preserving Bayesian Network Structure Computation on Distributed Heterogeneous Data*, Stanford University, Palo Alto, CA, August 13, 2004.

Polytechnic University Computer and Information Science Department, *Privacy-Protecting Statistics Computation: Theory and Practice*, Polytechnic University, Brooklyn, NY, April 2, 2004.

Responding to Terror and Ensuring Privacy: Can We Design Technologies and Policies That Do Both?, *Cryptographic Methods for Privacy-Preserving Computation on Data*, co-hosted

by the Heritage Foundation and the Center for Democracy and Technology, Washington, DC, December 1, 2003.

New Jersey Institute of Technology Electrical and Computer Engineering Department, *Privacy-Protecting Statistics Computation: Theory and Practice*, New Jersey Institute of Technology, Newark, NJ, November 24, 2003.

IEEE LICS'03 Workshop on Foundations of Computer Security, *Privacy in Today's World: Solutions and Challenges*, Ottawa, Canada, June 26–27, 2003.

Carnegie Mellon University Privacy in DATA Workshop, *Privacy-Protecting Statistics Computation: Theory and Practice*, Carnegie Mellon University, Pittsburgh, PA, March 27–28, 2003.

New Jersey Institute of Technology Workshop on Homeland and Cyber Security, *Privacy-Preserving Data Mining*, Newark, NJ, April 16–17, 2003.

U. Penn Computer Security Seminar, *Privacy in Today's World: Solutions and Challenges*, University of Pennsylvania, Philadelphia, PA, March 18, 2003.

CUNY Graduate Center Computer Science Department, *Privacy in Today's World: Solutions and Challenges*, CUNY Graduate Center, New York, NY, February 20, 2003.

Yale Computer Science Department, *Tight Bounds for Shared Memory Systems Accessed by Byzantine Processes*, Yale University, New Haven, CT, October 10, 2002.

Dagstuhl Workshop on Cryptography, *Tight Bounds for Shared Memory Systems Accessed by Byzantine Processes*, Schloss Dagstuhl, Germany, September 22–27, 2002.

CCR/DIMACS Workshop on Mining Massive Data Sets and Streams: Mathematical Methods and Algorithms for Homeland Defense, *Protecting Privacy in Data-Mining Applications*, Institute for Defense Analysis, Princeton, NJ, June 20–22, 2002.

Mathematical Foundations of Programming Semantics XVIII, *Reasoning about Trust and Insurance in a Public Key Infrastructure*, Special session on Security, New Orleans, LA, March 23–26, 2002.

Monte Verita Workshop on Cryptographic Protocols, *Private Function Evaluation with Sublinear Communication*, Monte Verita, Switzerland, March 18–23, 2001.

IBM T.J. Watson Research, *Efficient Fault-Tolerant Certificate Revocation and Reasoning about Trust and Insurance in a Public Key Infrastructure*, IBM Watson Research Center, Hawthorne, NY, December 7, 2000.

SRI International, *Secure Multiparty Computation of Approximations*, SRI International, Palo Alto, CA, May 25, 2000.

Florida State University Computer Science Department, *Secure Multiparty Computation*

of Approximations, Florida State University, Tallahassee, FL, April 11, 2000.

Third Annual Algebra Weekend, *Secure Multiparty Computation*, **Plenary Speaker**, University of Missouri, Columbia, MO, October 2–3, 1999.

Joint Seminar of the Amherst College Mathematics and Computer Science Departments, the U. Mass Computer Science Department, and the Five College Theory Seminar, *Experimental Performance of Shared RSA Modulus Generation*, Amherst College, Amherst, MA, September 29, 1998.

Hong Kong University of Science and Technology Computer Science Department Theory Seminar, *Secure Communication in Minimal Connectivity Models*, Hong Kong University of Science and Technology, Hong Kong, February 1998.

Dagstuhl Workshop on Cryptography, *Secure Communications over Echo Lines*, Schloss Dagstuhl, Germany, September 22–26, 1997.

DIMACS Special Year on Networks Seminar, *Probabilistic Quorum Systems*, AT&T Labs, Murray Hill, NJ, February 21, 1997.

Hong Kong University of Science and Technology Department of Computer Science, *The Omega Key Management Service*, Hong Kong University of Science and Technology, Hong Kong, November 10, 1995.

Columbia University Theory Seminar, *Achieving Perfect Secrecy Using Correlated Random Variables*, Columbia University, New York, NY, October 20, 1994.

IBM Communication in Distributed Systems Seminar, *Achieving Perfect Secrecy Using Correlated Random Variables*, IBM Watson Research Center, Hawthorne, NY, May 6, 1994.

Princeton University Computer Science Department, *Achieving Perfect Secrecy Using Correlated Random Variables*, Princeton University, Princeton, NJ, April 6, 1994.

Harvard University Computer Science Department, *Achieving Perfect Secrecy Using Correlated Random Variables*, Harvard University, Cambridge, MA, March 21, 1994.

Yale University Computer Science Liaison Program, *Applying Game Theory to Cryptography*, Yale University, New Haven, CT, October 15–16, 1992.

IBM Communication in Distributed Systems Seminar, *Secret Communication Among Friends*, IBM Watson Research Center, Hawthorne, NY, January 21, 1991.

DIMACS Workshop in Structural Complexity and Cryptography, *Secret Key Exchange Using a Random Deal of Cards*, Rutgers University, Piscataway, NJ, December 3–6, 1990.

DIMACS Workshop on Distributed Computing and Cryptography, *Experimental Work on Database Encryption*, Princeton, NJ, October 4–6, 1989.

Panel Participation

Invited Briefing to the U.S. Senate’s Diversity in Tech Caucus, Washington, DC, June 22, 2016. Representing CRA-W.

INET NY 2011 – It’s Your Call: What Kind of Internet Do You Want?, *New Privacy Models*, New York, NY, June 14, 2011. Panelist.

Engaging Data: First International Forum on the Application and Management of Personal Electronic Information, *Ensuring Data Protection: Technical Methods*, Massachusetts Institute of Technology, Cambridge, MA, October 12–13, 2009. Panelist.

Privacy Workshop: Implementing Privacy Protections in Government Data Mining, *Technologies for Privacy-Protective Data Mining*, Department of Homeland Security Privacy Office, Washington, DC, July 24–25, 2008. Panelist.

NY Systems/Networking Summit, *Hot Research Topics in Security*, New York University, New York, NY, November 17, 2006. Panelist.

Privacy and Technology Workshop: Exploring Government Use of Commercial Data for Homeland Security, *How Can Technology Help Protect Individual Privacy While Enabling Government Agencies to Analyze Data?*, Department of Homeland Security Privacy Office, Washington, DC, September 8–9, 2005. Panelist.

New Jersey Statewide Symposium on Homeland Security, *Large-Scale Cyber Attacks*, Rutgers University, Newark, NJ, October 12, 2004. Panelist and panel moderator.

DIMACS Workshop on Design and Formal Verification of Security Protocols, *Design vs. Verification: Is Verification the Wrong Approach?*, Rutgers University, Piscataway, NJ, September 3–5, 1997. Panelist.

McGraw-Hill Companies, *On-Line Privacy Forum*, McGraw-Hill Companies, New York, NY, November 4, 1996. Panelist.

Patents

Off-line generation of limited-use credit card numbers, A. Rubin and R. Wright, US patent US2002-0073045 A1, issued 6/13/2002.

Publications: Journal papers

- [1] “From Keys to Databases – Real-World Applications of Secure Multi-Party Computation,” D. Archer, D. Bogdanov, Y. Lindell, L. Kamm, K. Nielsen, J. Pagter, N. Smart, and

- R. Wright, *The Computer Journal*, Vol. 61, No. 12, 2018, pp. 1749–1771.
- [2] “Privacy-preserving Machine Learning as a Service,” E. Hesamifard*, H. Takabi, M. Ghasemi§, and R. Wright, *Proceedings on Privacy Enhancing Technologies*, Vol. 2018, No. 3, 2018, pp. 123–142.
- [3] “Dynamics at the Boundary of Game Theory and Distributed Computing,” A. Jaggard, N. Lutz*, M. Schapira, and R. Wright, *ACM Transactions on Economics and Computation (TEAC)*, Vol. 5, No. 3, 2017, Article 15.
- [4] “A Practical Differentially Private Random Decision Tree Classifier,” G. Jagannathan*§, K. Pillaipakkamnatt, and R. Wright, *Transactions on Data Privacy*, Vol. 5, No. 1, 2012, pp. 273–295.
- [5] “Communication-Efficient Privacy-Preserving Clustering,” G. Jagannathan*, K. Pillaipakkamnatt, R. Wright, and D. Umamo†, *Transactions on Data Privacy*, Vol. 3, No. 1, 2010, pp. 1–25.
- [6] “Private Multiparty Sampling and Approximation of Vector Combinations,” Y. Ishai, T. Malkin, M. Strauss, and R. Wright, *Theoretical Computer Science*, Vol. 410, No. 18, 2009, pp. 1730–1745.
- [7] “Privacy-Preserving Imputation of Missing Data,” G. Jagannathan and R. Wright*, *Data & Knowledge Engineering*, Vol. 65, No. 1, 2008, pp. 40–56.
- [8] “Secure Multiparty Computation of Approximations,” J. Feigenbaum, Y. Ishai, T. Malkin, K. Nissim, M. Strauss, and R. Wright, *ACM Transactions on Algorithms*, Vol. 2, No. 3, 2006, pp. 435–472.
- [9] “Privacy-Preserving Computation of Bayesian Networks on Vertically Partitioned Data,” Z. Yang* and R. Wright, *IEEE Transactions on Knowledge and Data Engineering*, Vol. 18, No. 9, 2006, pp. 1253–1264.
- [10] “Statewide databases of registered voters,” P. Hawthorn, B. Simons, C. Clifton, D. Wagner, S. Bellovin, R. Wright, A. Rosenthal, R. Poore, L. Coney, R. Gellman, and H. Hochheiser, *Communications of the ACM*, Vol. 49, No. 4, 2006, pp. 26–28.
- [11] “Experimental Analysis of a Privacy-Preserving Scalar Product Protocol,” Z. Yang* R. Wright, and H. Subramaniam†, *International Journal of Computer Systems Science and Engineering*, Vol. 21, No. 1, 2006, pp. 47–52.
- [12] “Tight Bounds for Shared Memory Systems Accessed by Byzantine Processes,” N. Alon, M. Merritt, O. Reingold, G. Taubenfeld, and R. Wright, *Distributed Computing*, Vol. 18, No. 2, 2005, pp. 99–109.
- [13] “PORTIA: Privacy, Obligations, and Rights in Technologies of Information Assessment,”

*Ph.D. student at the time work was performed.

†M.S. student at the time work was performed.

‡Undergraduate student at the time work was performed.

§Postdoctoral researcher at the time work was performed.

- D. Boneh, J. Feigenbaum, A. Silberschatz, and R. Wright, *Bulletin of the IEEE Computer Society Technical Committee on Data Engineering*, Vol. 27, No. 1, 2004, pp. 10–18.
- [14] “An Authentication Logic with Formal Semantics Supporting Synchronization, Revocation, and Recency,” S. Stubblebine and R. Wright, *IEEE Transactions on Software Engineering*, Vol. 28, No. 3, 2002, pp. 256–285.
- [15] “Experimental Performance of Shared RSA Modulus Generation,” R. Wright and S. Spalding[‡], *Algorithmica*, Vol. 33, No. 1, 2002, pp. 89–103.
- [16] “Depender Graphs: A Method of Efficient Fault-Tolerant Certificate Distribution,” R. Wright, P. Lincoln, and J. Millen, *Journal of Computer Security*, Vol. 9, No. 4, 2001, pp. 323–338.
- [17] “Probabilistic Quorum Systems,” D. Malkhi, M. Reiter, A. Wool, and R. Wright, *Information and Computation*, Vol. 170, No. 2, 2001, pp. 184–206.
- [18] “Secure Communication in Minimal Connectivity Models,” M. Franklin and R. Wright, *Journal of Cryptology*, Vol. 13, No. 1, 2000, pp. 9–30.
- [19] “The Ω Key Management Service,” M. Reiter, M. Franklin, J. Lacy, and R. Wright, *Journal of Computer Security*, Vol. 4, No. 4, 1996, pp. 267–287.
- [20] “Bounds on Secret Key Exchange Using a Random Deal of Cards,” M. Fischer and R. Wright*, *Journal of Cryptology*, Vol. 9, No. 2, 1996, pp. 71–99.

Publications: Book chapters

- [21] “Privacy in a Networked World,” R. Wright, *Frontiers of Engineering: Reports on Leading-Edge Engineering from the 2007 Symposium*, The National Academies Press, (2008), pp. 5–12.
- [22] “Cryptography,” R. Wright, *Encyclopedia of Physical Science and Technology (Third Edition)*, Elsevier Academic Press, (2001), Robert A. Myers, editor, pp. 61–77.
- [23] “Finite-State Approximation of Phrase-Structure Grammars,” F. Pereira and R. Wright*, *Finite-State Language Processing*, (1997), MIT Press, Cambridge, MA, Emmanuel Roche and Yves Schabes, editors, pp. 149–173.
- [24] “An Application of Game-Theoretic Techniques to Cryptography,” M. Fischer and R. Wright*, *Advances in Computational Complexity Theory*, DIMACS Series in Discrete Mathematics and Theoretical Computer Science, Volume 13, American Mathematical Society, (1993), Jin-Yi Cai, editor, pp. 99–118.
- [25] “Cryptographic Protection of Databases and Software,” J. Feigenbaum, M. Liberman, and R. Wright, *Distributed Computing and Cryptography*, DIMACS Series in Discrete Mathemat-

*Ph.D. student at the time work was performed.

†M.S. student at the time work was performed.

‡Undergraduate student at the time work was performed.

§Postdoctoral researcher at the time work was performed.

ics and Theoretical Computer Science, Volume 2, American Mathematical Society, (1991), Joan Feigenbaum and Michael Merritt, eds, pp. 161–172.

Publications: Books and journal special issues edited

- [26] *Cryptology and Network Security – 9th International Conference, CANS 2010*, Lecture Notes in Computer Science, Vol. 6467, Springer, (2010), Swee-Huay Heng, Rebecca N. Wright, Bok-Min Goi, editors.
- [27] *Special Issue on Computer and Communications Security*, ACM Transactions on Information and System Security, Vol. 12, No. 2, (2008), Rebecca N. Wright and Sabrina De Capitani di Vimercati, editors.
- [28] *Special Issue on Privacy and Security Aspects of Data Mining*, International Journal of Information and Computer Security, Vol. 2, No. 1, Inderscience Publishers (2008), Stan Matwin, LiWu Chang, Rebecca N. Wright, and Justin Zhan, editors.
- [29] *Proceedings of the 13th ACM Conference on Computer and Communications Security*, ACM Press, (2006), Rebecca N. Wright, Sabrina De Capitani di Vimercati, and Vitaly Shmatikov, editors.
- [30] *Proceedings of Financial Cryptography '03*, Lecture Notes in Computer Science, Vol. 2742, Springer-Verlag, (2003), Rebecca N. Wright, editor.
- [31] *Network Threats*, DIMACS Series in Discrete Mathematics and Theoretical Computer Science, Volume 38, American Mathematical Society, (1998), Rebecca N. Wright and Peter G. Neumann, editors.

Publications: Refereed conferences and workshops

- [32] “Living-Learning Community for Women in Computer Science at Rutgers,” R. Wright, J. Stout, G. Cochran, T. Nyugen, and C. Sanchez Gomez, *Proceedings of the 50th ACM Technical Symposium on Computer Science Education (SIGCSE)*, 2019, to appear.
- [33] “Using Noisy Binary Search for Differentially Private Anomaly Detection,” D. Bittner*, A. Sarwate, and R. Wright, *Cyber Security Cryptography and Machine Learning — Proceedings of the 2nd International Symposium on Cyber Security Cryptography and Machine Learning (CSCML)*, Lecture Notes in Computer Science, Vol. 10879, Springer, 2018, pp. 20–37.
- [34] “Computer Science Living-Learning Community for Women at Rutgers: Initial Experiences and Outcomes (Abstract Only),” R. Wright, J. Stout, G. Cochran, T. Nyugen, and C. Sanchez Gomez, *Proceedings of the 49th ACM Technical Symposium on Computer Science Education (SIGCSE)*, 2018, p. 1075.
- [35] “Differentially Private Noisy Search with Applications to Anomaly Detection (Abstract),” D.

*Ph.D. student at the time work was performed.

†M.S. student at the time work was performed.

‡Undergraduate student at the time work was performed.

§Postdoctoral researcher at the time work was performed.

- Bittner*, A. Sarwate, and R. Wright, *Proceedings of the 10th ACM Workshop on Artificial Intelligence and Security (AISec)*, 2017, p. 53. ([33] is an extended version of this paper.)
- [36] “Differentially Private Online Active Learning with Applications to Anomaly Detection,” M. Ghassemi*, A. Sarwate, and R. Wright, *Proceedings of the 9th ACM Workshop on Artificial Intelligence and Security (AISec)*, 2016, pp. 117–128.
- [37] “Self-stabilizing Uncoupled Dynamics,” A. Jaggard, N. Lutz*, M. Schapira, and R. Wright, *Algorithmic Game Theory — Proceedings of the 7th International Symposium on Algorithmic Game Theory (SAGT)*, Lecture Notes in Computer Science, Vol. 8768, Springer, 2014, pp. 74–85.
- [38] “Systematizing Secure Computation for Research and Decision Support,” J. Perry*, D. Gupta*, J. Feigenbaum, and R. Wright, *Proceedings of the 9th Conference for Security and Cryptography for Networks (SCN)*, Lecture Notes in Computer Science, Vol. 8642, Springer, 2014, pp. 380–397.
- [39] “Uncovering Facebook Side Channels and User Attitudes,” S. Lu*, J. Lindqvist, and R. Wright, *Proceedings of the Workshop on Web 2.0 Security and Privacy*, online proceedings only, 2014.
- [40] “Open vs. Closed Systems for Accountability,” J. Feigenbaum, A. Jaggard, and R. Wright, *Proceedings of Symposium and Bootcamp on the Science of Security (HotSoS)*, 2014.
- [41] “Strange Bedfellows: How and When to Work with Your Enemy,” A. Jaggard and R. Wright, *Proceedings of the 22nd International Workshop on Security Protocols*, Lecture Notes in Computer Science, Vol. 8809, Springer, 2014, pp. 263–267.
- [42] “Practical and Privacy-Preserving Policy Compliance on Outsourced Data,” G. Di Crescenzo, J. Feigenbaum, D. Gupta*, E. Panagos, J. Perry*, and R. Wright, *Proceedings of 2nd Workshop on Applied Homomorphic Cryptography and Encrypted Computing*, Lecture Notes in Computer Science, Vol. 8438, Springer, 2014, pp. 181–194.
- [43] “DP-WHERE: Differentially Private Modeling of Human Mobility,” D. Mir*, S. Isaacman, R. Cáceres, M. Martonosi, and R. Wright, *Proceedings of IEEE International Conference on Big Data*, 2013, pp. 580–588.
- [44] “Privacy-Preserving Publish/Subscribe: Efficient Protocols in a Distributed Model,” G. Di Crescenzo, B. Coan, J. Schultz, S. Tsang, and R. Wright, *Proceedings of the 8th International Workshop on Data Privacy Management (DPM)*, 2013, pp. 114–132.
- [45] “The Design Space of Probing Algorithms for Network-Performance Measurement,” A. Jaggard, S. Kopparty[‡], V. Ramachandran, and R. Wright, *Proceedings of ACM SIGMETRICS*, 2013, pp. 105–116.

*Ph.D. student at the time work was performed.

†M.S. student at the time work was performed.

‡Undergraduate student at the time work was performed.

§Postdoctoral researcher at the time work was performed.

- [46] “Efficient and Private Three-Party Publish/Subscribe,” G. Di Crescenzo, J. Burns, B. Coan, J. Schultz, J. Stanton, S. Tsang, and R. Wright, *Proceedings of the 7th International Conference on Network and System Security (NSS)*, 2013, pp. 278–292.
- [47] “A Differentially Private Estimator for the Stochastic Kronecker Graph Model,” D. Mir* and R. Wright, *Proceedings of the 2012 Workshop on Privacy and Anonymity in the Information Society*, 2012, pp. 167–176.
- [48] “Towards a Formal Model of Accountability,” J. Feigenbaum, A. Jaggard, and R. Wright, *Proceedings of the 2011 New Security Paradigms Workshop (NSPW)*, 2011, pp. 45–56.
- [49] “Accountability and Deterrence in Online Life,” J. Feigenbaum, J. Hendler, A. Jaggard, D. Weitzner, and R. Wright, *Proceedings of the Third International Conference on Web Science (WebSci)*, 2011.
- [50] “Brief Announcement: Distributed Computing with Rules of Thumb,” A. Jaggard, M. Schapira[§], and R. Wright, *Proceedings of the 30th Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC)*, 2011, pp. 333–334.
- [51] “Pan-private Algorithms via Statistics on Sketches,” D. Mir*, S. Muthukrishnan, A. Nikolov*, and R. Wright, *Proceedings of the 30th ACM Symposium on Principles of Database Systems (PODS)*, 2011, pp. 37–48.
- [52] “Distributed Computing with Adaptive Heuristics,” A. Jaggard, M. Schapira[§], and R. Wright, *Proceedings of Innovations in Computer Science*, 2011, pp. 417–443. ([3] is an extended version of this paper.)
- [53] “A Practical Differentially Private Random Decision Tree Classifier,” G. Jagannathan*, K. Pillaipakkamnatt, and R. Wright, *Proceedings of the Ninth IEEE International Conference on Data Mining – Workshops*, 2009, pp. 114–121. ([4] is an extended version of this paper.)
- [54] “A Differentially Private Graph Estimator,” D. Mir* and R. Wright, *Proceedings of the Ninth IEEE International Conference on Data Mining – Workshops*, 2009, pp. 122–129. [Note: Some of the results in this paper are incorrect.]
- [55] “Privacy-Preserving Evaluation of Generalization Error and Its Application to Model and Attribute Selection,” J. Sakuma and R. Wright, *Advances in Machine Learning – Proceedings of the First Asian Conference on Machine Learning (ACML)*, Lecture Notes in Computer Science, Vol. 5828, Springer, 2009, pp. 338–353.
- [56] “Interstate Voter Registration Database Matching: The Oregon-Washington 2008 Pilot Project,” R. M. Alvarez, J. Jonas, W. Winkler, and R. Wright, *Proceedings of the 2009 Electronic Voting Workshop / Workshop on Trustworthy Elections*, 2009. (Electronic proceedings only.)
- [57] “The Impact of Communication Models on Routing-Algorithm Convergence,” A. Jaggard,

*Ph.D. student at the time work was performed.

†M.S. student at the time work was performed.

‡Undergraduate student at the time work was performed.

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