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EMPLOYMENT HISTORY

Yale University, New Haven, CT	
<i>Grace Murray Hopper Professor of Computer Science</i>	04/2008 – present
<i>Professor (Adjunct) of Law</i>	07/2016 – 06/2017
<i>Department Chair, Computer Science</i>	07/2014 – 06/2017
<i>Henry Ford II Professor of Computer Science</i>	01/2006 – 03/2008
<i>Professor of Computer Science</i>	07/2000 – 12/2005
AT&T Labs – Research, Florham Park, NJ	
<i>Member of Research Staff</i>	1996 – 6/2000
<i>Department Head, Algorithms and Distributed Data</i>	1998 – 1999
AT&T Bell Laboratories, Murray Hill, NJ	
<i>Member of Technical Staff</i>	1986 – 1995

EDUCATION

Stanford University, Ph.D. in Computer Science	1986
Thesis Advisor: A. C. Yao	
Harvard University, A.B. in Mathematics	1981
Thesis Advisor: B. Mazur	
Yale University, M.A. Privatum	2001

CITIZENSHIP: United States

AWARDS

Member, Connecticut Academy of Science and Engineering	2013 – Present
AAAS Fellow	2012 – Present
Connecticut Technology Council “Women of Innovation” Award	2012
ACM Fellow	2001 – Present
AMS Winter Meeting Plenary Speaker	1999
ICM Invited Lecturer	1998

RESEARCH INTERESTS

Security, Privacy, Anonymity, and Accountability
Internet Algorithmics
Computational Complexity

EDITORIAL BOARDS

<i>PeerJ, Computer Science</i> , Board Member	2015 – Present
<i>ACM Trans. Economics and Computation</i> , Board Member	2011 – 2016
<i>J. Cryptology</i> , Editor-in-Chief	1997 – 2002
<i>SIAM J. Computing</i> , Board Member	1993 – 2002
<i>J. Algorithms</i> , Board Member	1992 – 1996
<i>J. Cryptology</i> , Board Member	1990 – 1996
<i>IEEE Trans. on Information Theory</i> , Guest Editor	1996
<i>J. Computing and System Sciences</i> , Guest Editor	1991, 1998
<i>J. Cryptology</i> , Guest Editor	1989 – 1990
<i>Communications of the ACM</i> , Guest Editor	1988 – 1989

PROGRAM-COMMITTEE CHAIR

<i>ACM Symposium on Theory of Computing</i>	2013
<i>NetEcon</i> (Co-Chair with Y. R. Yang)	2008
<i>ACM Conference on Electronic Commerce</i> (Co-Chair with M. Seltzer)	2004
<i>ACM Workshop on Digital Rights Management</i>	2002
<i>IEEE Conference on Computational Complexity</i>	1998
<i>Crypto</i>	1991

PROGRAM-COMMITTEE MEMBER

<i>Crypto</i>	1989, 1993, 1996
<i>Eurocrypt</i>	1992, 1999
<i>Financial Cryptography</i>	1999, 2000
<i>Workshop on Applied Homomorphic Cryptography</i>	2016
<i>ACM Conference on Computer and Communications Security</i>	1993, 1994, 2005
<i>IEEE Computer Security Foundations</i>	2000, 2012
<i>ACM Workshop on Security and Privacy in Digital Rights Management</i>	2001
<i>PETS Workshop on Surveillance and Technology</i>	2015
<i>ACM Symposium on Theory of Computing</i>	1991, 1994, 1999, 2001, 2008
<i>IEEE Conference on Computational Complexity</i> (Then called “Structure in Complexity Theory”)	1993
<i>Intl. Colloquium on Automata, Languages, and Programming</i>	2011
<i>Intl. Computing and Combinatorics Conference</i>	1998
<i>ACM/SIAM Symposium on Discrete Algorithms</i>	1999
<i>ACM Symposium on Principles of Distributed Computing</i>	2004, 2009
<i>Workshop on Internet and Network Economics</i>	2005, 2008
<i>ACM Conference on Electronic Commerce</i>	2011
<i>ACM Conference on Economics and Computation</i>	2014
<i>ACM Web Science</i>	2012
<i>NetDB</i>	2007
<i>World Wide Web Conference</i>	2009

PROGRAM-COMMITTEE MEMBER, Continued

USENIX Workshop on Free and Open Communication on the Internet 2013
ACM "Turing 50" Celebration 2017

DIMACS-WORKSHOP CHAIR

Data Mining in the Internet Age (Co-chair with R. Agrawal,
P. Raghavan, and J. Ullman) 2000
Management of Digital IP (*Co-chair with D. Boneh and R. Venkatesan*) 2000
Massive Data Sets in Telecommunications 1997
Trust Management and Public-Key Infrastructure (Co-chair with
E. Brickell and D. Maher) 1996
Complexity of Computer-Aided Verification (*Co-chair with R. Brayton*
and A. Emerson) 1996
Structural Complexity and Cryptography (Co-chair with E. Allender
and J.-Y. Cai) 1990
Distributed Computing and Cryptography (Co-chair with M. Merritt) 1989

ELECTED POSITIONS

ACM Sigecom Vice Chair 2005 – 2011
ACM Sigact Executive-Committee Member 2005 – 2009
Association for Women in Mathematics (AWM),
Member at Large 2000 – 2004

OTHER PROFESSIONAL SERVICE

CRISP (Center for Security and Privacy Research Darmstadt),
Scientific Advisory-Board Member 2016 – Present
ACM SIGEcom Test of Time Award, Selection-Committee Member 2014 – 2016
ACM Fellows, Selection-Committee Member 2012 – 2015
Knuth Prize, Selection-Committee Member 2009 – 2012
NSF Network Science and Engineering (NetSE), Council Member 2008 – 2009
NSF Cyber-Trust PI Meeting, Local Arrangements Chair 2008
Web Sciences Research Institute, Scientific Council Member 2006 – 2010
NetEcon, Steering Committee Member 2006 – Present
ACM Conference on Electronic Commerce, General Chair 2006
Member, SIGACT Committee for the Advancement of Theoretical
Computer Science 2005 – 2007
DIMACS Special Focus on Computation and the Socio-Economic
Sciences, Steering-Committee Member 2004 – 2007
International Association for Cryptologic Research,
Fellows-Selection-Committee Member 2003 – 2006
American Association for the Advancement of Science Symposium,
Session Organizer and Chair: *Incentive Compatibility in Internet
Computation* 2003

OTHER PROFESSIONAL SERVICE, Continued

Member, NAS Computer Science and Telecommunications Board	2002 – 2007
ACM Conference on Electronic Commerce, Tutorial Co-chair (with B. Grosz)	2003
ACM Workshop on Digital Rights Management, General Co-chair (with T. Sander)	2003
ACM Grace Murray Hopper Award, Selection-Committee Member	2001 – 2006
Institute for Mathematics and Its Applications (IMA), Member of Board of Directors	1999 – 2002
DIMACS Special Focus on Next-Generation Networks, Co-chair (with S. Muthukrishnan)	2000 – 2003
Advisory-Board Member, Johns Hopkins University Computer Science	1999 – 2000
National Research Council Panel Member, Intellectual Property Protection in the Emerging Information Infrastructure	1998 – 1999
DIMACS Special Year on Massive Data Sets, Steering-Committee Member	1997 – 1998
DIMACS Research and Educational Institute (DREI '97): Three-week course and workshop on cryptology and security, Co-director (with S. Rudich)	1997
IEEE Conference on Computational Complexity, Steering-Committee Member	1994 – 1997
DIMACS Special Year on Logic and Algorithms, Steering-Committee Member	1995 – 1996
DIMACS Project-Committee Chair	1994 – 1996
National Academy of Sciences “Frontiers of Science” Symposium, Session organizer and chair: <i>Security and Privacy in the Information Economy</i>	1996
NSF Conference on Women in Science, Panel Member: <i>Past, Present, and Future Challenges</i>	1995
National Academy of Sciences “Frontiers of Science” Symposium, Participant	1995
American Association for the Advancement of Science Symposium, Session organizer and Chair: <i>Information Security: Principles and Public Policy</i>	1995
Computing Research Association Committee on the Status of Women, Charter Member	1991 – 1996
Grace Hopper Celebration of Women in Computing, Panel Member: <i>Science Policy</i>	1994
NSF, Member of Twelve Proposal-Evaluation Panels	1993 – 2015

GRANTS

NSF and ONR, N00014-980219 <i>ONR/NSF/AWM Workshops for Women Graduate Students and Postdoctoral Mathematicians</i> Co-PI (with S. Lenhart (PI) of Univ. Tennessee, C. Gordon of Dartmouth Univ., and G. Ratcliff of Univ. Missouri) \$230,000	01/97 – 12/99
Army Research Office, DAAG55-98-1-0393 <i>Checkers, Self-Testers, and Self-Correctors for Reactive Systems</i> Co-PI (with S. Kannan (PI) and I. Lee of Univ. Pennsylvania) \$270,000	07/98 – 07/01
DARPA, AF F39502-99-1-0512 <i>Scalable Trust of Next-Generation Management (STRONGMAN)</i> Co-PI (with J. Smith (PI) of Univ. Pennsylvania and M. Blaze and J. Ioannidis of AT&T) \$1,405,000	07/99 – 06/02
ONR, N00014-01-1-0388 & AFOSR F49620-01-1-0157 <i>Workshop Grant in support of AWM Workshops for Women Graduate students and Postdoctoral Mathematicians</i> Co-PI (with S. Lenhart (PI) of Univ. Tennessee, S.Geller of Texas A & M, E. Schaefer of Marymount Univ., and G. Ratcliff of Univ. Missouri) \$259,000	01/01 – 12/03
ONR, N00014-01-1-0795 <i>Software Quality and Infrastructure Protection for Diffuse Computing</i> Co-PI (with A. Scedrov (PI) and J. Smith of Univ. Pennsylvania, J. Mitchell of Stanford Univ., J. Halpern of Cornell Univ., P. Lincoln of SRI, and C. Dwork of Microsoft) \$5,000,000	05/01 – 04/06
ONR, N00014-01-1-0447 <i>A Game-Theoretic Treatment of Denial of Service</i> \$51,000	06/01 – 12/01
NSF, CCR-0105337 <i>Massive Data Streams: Algorithms and Complexity</i> PI (with S. Kannan of Univ. Pennsylvania) \$256,300	06/01 – 05/04
NSF, CCR-TC-0208972 <i>GRIDLOCK: A New Scalable Approach to Unifying Computer and Communications Security</i> PI (with A. Keromytis of Columbia Univ. and J. Smith of Univ. Pennsylvania) \$600,000	07/02 – 07/05
NSF, ITR-0219018 <i>Foundations of Distributed Algorithmic Mechanism Design</i> \$485,000	08/02 – 07/05

GRANTS, Continued

NSF, ANIR-NR-0207399 <i>Incentive-Compatible Designs for Distributed Systems</i> PI (with A. Krishnamurthy and R. Yang of Yale Univ. and S. Shenker of ICSI) \$425,000	08/02 – 08/05
NSF, ITR-0331548 <i>Sensitive Information in a Wired World</i> Yale PI (with D. Boneh (PI), H. Garcia-Molina, J. Mitchell, and R. Motwani of Stanford; R. Kannan and A. Silberschatz of Yale; S. Forrest (PI) of Univ. New Mexico; H. Nissenbaum (PI) of NYU; and R. Wright (PI) of Rutgers) \$12,500,000	10/03 – 09/10
US-Israel BSF, 2002065 <i>Decentralized Resource Allocation: Incentives and Computation</i> US PI (with N. Nisan (Israeli PI) of Hebrew University) \$120,000	10/03 – 09/07
ONR, N00014-04-1-0725 <i>Trustworthy Infrastructure, Mechanisms, and Experimentation for Diffuse Computing</i> Co-PI (with A. Scedrov (PI) and S. Zdancewic of Univ. of Pennsylvania, J. Mitchell of Stanford Univ., J. Halpern of Cornell Univ., and P. Lincoln of SRI) \$1,000,000	06/04 – 05/06
NSF, CNS-0428422 <i>An Economic Approach to Security</i> PI (with D. Bergemann of Yale Univ. and S. Shenker of ICSI) \$699,400	09/04 – 08/08
HSARPA, ARO-W911NF-05-1-0417 <i>Incrementally Deployable Security for Interdomain Routing</i> Co-PI (with J. Rexford (PI) of Princeton Univ.) \$407,483	08/05 – 04/08
NSF, IIS-0534052 and IIS-0534198 <i>New Privacy Frameworks for Collaborative Information Sharing</i> Co-PI (with V. Shmatikov (PI) of Univ. Texas) \$361,690	01/06 – 12/08
ARO, W911NF-06-1-0316 <i>Cyber-Threat Analytics</i> Yale PI (subcontract from SRI International, P. Porras (PI)) Yale budget: \$92,852	07/06 – 07/08
IARPA, FA8750-07-0031 <i>End-to-end, semantic accountability</i> Co-PI (with D. Weitzner (PI), H. Abelson, T. Berners-Lee, and G. Sussman of MIT, and J. Hendler of RPI) \$2,081,164	06/07 – 05/10

GRANTS, Continued

NSF, CCF-0728500 and CCF-0728443 <i>Foundations of Next-Generation Routing</i> Co-PI (with S. Shenker (PI) of ICSI) \$271,000	09/07 – 08/11
NSF, CNS-0716158, CNS-0716172, and CNS-0716223 <i>Massive-Dataset Algorithmics for Network Security</i> Co-PI (with V. Shmatikov (PI) of Univ. Texas and S. Kannan of Univ. Pennsylvania) \$250,000	10/07 – 09/10
ONR, N00014-09-10757 <i>Proactively Removing the Botnet Threat</i> PI (with S. Bellovin, A. Keromytis, and S. Stolfo of Columbia, V. Shmatikov and M. Walfish of Univ. Texas, and B. Ford of Yale) \$883,627	04/09 – 09/10
NSF, CNS-1016875 and CNS-1018557 <i>Accountability and Identifiability</i> Co-PI (with R. Wright (PI) and A. Jaggard of DIMACS) \$500,000	08/10 - 07/13
DARPA, N66001-11-C-4018 <i>DISSENT: Scalable and Disruption-Proof Anonymity for Interactive Internet Communication</i> Co-PI (with B. Ford (PI) of Yale and V. Shmatikov of Univ. Texas) \$2,078,695	10/10 - 09/14
IARPA, D11PC20198 <i>SPADE: Secure and Private Database Execution</i> Yale PI (subcontract from Applied Communication Sciences, T. Panagos (PI)) Yale budget: \$558,019	10/11 – 03/15
ONR, N00014-12-10478 <i>Reasoning Infrastructure for Secure-Aware Software Development</i> Co-PI (with B. Ford (PI) and Z. Shao of Yale) \$750,000	04/12 – 09/15
ONR, N000014-12-10522 <i>Optimal Design of Peer Production and Crowdsourcing Systems</i> PI (with S. Jain (postdoc) of Yale) \$350,000	07/12 – 06/15
Google Faculty Research Award <i>Accountability and Choice in Online Consumer Feedback</i> PI (with G. Zervas (postdoc) of Yale and J. Byers of Boston Univ.) \$53,000	09/12 – 02/13

GRANTS, Continued

DARPA, FA8750-13-2-0058 <i>Systematization of Secure Computation</i> PI (with R. Wright of DIMACS) \$678,093	01/13 – 05/15
NSF CNS-1409599 <i>Hiding Hay in a Haystack: Integrating Censorship Resistance into the Mainstream Internet</i> PI \$600,000	09/14 – 08/18
NSF CNS-1407454 <i>An App-Centric Transport Architecture for the Internet</i> PI \$400,000	09/14 – 08/18
Google Faculty Research Award <i>Privacy and Accountability in Lawful Surveillance</i> PI \$54,500	03/15 – 08/16
DHS grant FA8750-16-2-0034 <i>PriFi Networking for Tracking-Resistant Mobile Computing</i> PI (with B. Ford of EPFL) \$1,727,334	02/16 – 02/19
William and Flora Hewlett Foundation grant 2016-3834 <i>Law and Technology of Cyber Conflict</i> Co-PI (with O. Hathaway (PI) and Scott Shapiro of Yale Law School) \$406,000	03/16 – 03/18

EDUCATION AND MENTORING

All are Yale University courses, postdocs, or students unless otherwise specified.

Classroom Teaching

<i>Law and Technology of Cyber Conflict</i>	Fall, 2016
<i>Law and Technology of Cyber Conflict: Practicum</i>	Spring, 2017
<i>Computational Complexity</i>	Spring, 2016
	Spring, 2015
	Fall, 2012; Fall, 2010
	Fall, 2009; Fall, 2008
	Spring & Fall, 2007
<i>Mathematical Tools for Computer Science</i>	Fall, 2012; Fall, 2009
<i>Sensitive Information in a Wired World</i>	Fall, 2013; Fall, 2011
	Spring, 2006
	Fall, 2003
<i>The Internet: Co-Evolution of Technology and Society</i>	Spring, 2007
	Fall, 2003

EDUCATION AND MENTORING, Continued

<i>Economics and Computation</i>	Fall, 2011; Fall, 2008 Spring, 2006 Spring, 2003 Spring, 2002
<u>Classroom Teaching, Continued</u>	
<i>E-commerce: Doing Business on the Internet</i>	Spring, 2003 Spring & Fall, 2001 Fall, 2000
<i>E-commerce Foundations</i>	
<i>Number-Theoretic Algorithms and Cryptography</i> , Univ. of Pennsylvania	1996
<i>Cryptography and Security</i> , Columbia Univ.	1992
<i>Computability and Complexity Theory</i> , Columbia Univ.	1990
<i>Combinatorics and Discrete Math</i> , Columbia Univ.	1988
<u>Postdocs</u>	
Mahdi Zamani	02/16 – 12/16
Georgios Zervas	07/11 – 06/13
Shaili Jain	10/10 – 04/13
Michael Schapira	10/08 – 09/10
Fernando Esponda	01/06 – 06/07
Nimrod Kozlovski	07/04 – 06/05
Michael Elkin	09/03 – 08/04
<u>PhD Students</u>	
Lihi Idan	Current
Raphael Ryger	Current
Debayan Gupta	2016
Aaron Segal (co-advised with Bryan Ford)	2016
Hongda Xiao	2014
Felipe Saint-Jean	2010
Ramzi Dakdouk	2009
Aaron Johnson	2009
Vijay Ramachandran	2005
Jian Zhang	2005
Sheng Zhong	2004
Rahul Sami	2003
Ninghui Li, New York Univ.	2000
<u>PhD Thesis-Committee Memberships</u>	
John Maheswaran	2015
Ewa Syta	2015
Ennan Zhai	2015
Shaili Jain, Harvard Univ.	2010
Arvind Narayanan, Univ. of Texas	2009
Yinghua Wu	2009
Hao Wang	2008
Zheng Ma	2007

EDUCATION AND MENTORING, Continued

Zhiqiang Yang, Stevens Institute of Technology	2007
Kevin Chang	2006
Aleksandr Yampolskiy	2006
Kostas Anagnostakis, Univ. of Pennsylvania	2005
<u>PhD Thesis-Committee Memberships, Continued</u>	
Dejing Dou	2004
Yael Gertner, Univ. of Pennsylvania	2003
Gauri Shah	2003
Xiaodong Sun, Rutgers Univ.	2003
Yehuda Lindell, Weizmann Institute of Science (external reader)	2002
Angelos Keromytis, Univ. of Pennsylvania	2001
Kobbi Nissim, Weizmann Institute of Science (external reader)	2001
Ashish Naik, SUNY Buffalo	1994
Nick Reingold	1992
<u>Masters Students</u>	
Swara Kopparty	2015
Aditi Jain	2012
Ran Zhao	2012
Shu-Chun Weng	2011
Ashley Green	2004
Raghava Vellanki	2004
Pei-Wei Wu	2001
Yang-hua Chu, MIT	1997
<u>Other</u>	
Women in Theory Symposium	2008
Panel Member: <i>Work-Life Balance</i>	
Panel Member: <i>Why Women Don't Ask</i>	
Association for Women in Mathematics "After-Tenure" Workshop	2004
Panel Speaker: <i>Leadership Roles outside of the University</i>	
Association for Women in Mathematics Workshop	1998
Invited Speaker: <i>Research Careers in Corporate Laboratories</i>	
Grace Hopper Celebration of Women in Computing	1997
Panel Member: <i>Building a Research Program</i>	
Julia Robinson Celebration of Women in Mathematics	1996
Panel Member: <i>Nonacademic Careers</i>	
ACM Federated Computing Research Conference	1996
Symposium on Academic Careers for Women	
Panel Member: <i>Building a Research Program</i>	
ACM Federated Computing Research Conference	1993
Symposium on Academic Careers for Women	
Panel Member: <i>Making Connections</i>	

SELECTED TALKS

Project Overview, DARPA PROCEED PI Meeting <i>Where We Stand with Respect to SMPC</i>	03/2015
Invited Lecture, Pitney Bowes Security and Privacy Symposium <i>Accountability and Deterrence in Online Life</i>	06/2013
Distinguished Lecture, University of Michigan <i>The DISSENT Approach to Anonymous, Interactive Communication on the Internet</i>	01/2013
Invited Lecture, ACM/IEEE Symp. on Logic in Computer Science <i>Privacy, Anonymity, and Accountability in Ad-Supported Services</i>	06/2012
Distinguished Lecture, University of Illinois <i>The DISSENT Approach to Anonymous, Interactive Communication on the Internet</i>	04/2011
Distinguished Lecture, Penn State University <i>The DISSENT Approach to Anonymous, Interactive Communication on the Internet</i>	12/2010
Keynote Lecture, IncoTrust Workshop <i>Accountability in International Data Exchange</i>	05/2010
Distinguished Lecture, Northwestern University <i>Approximate Privacy: Foundations and Quantification</i>	05/2009
Distinguished Lecture, UMASS Amherst <i>Approximate Privacy: Foundations and Quantification</i>	05/2009
Distinguished Lecture, Boston University <i>Approximate Privacy: Foundations and Quantification</i>	05/2009
NSF NetSE Informational Meeting Invited talk: <i>The SIGACT Community and the NetSE Program: A Match Made in Heaven</i>	09/2008
Women in Theory Symposium, Princeton NJ <i>Modeling and Analysis of Anonymous Communication Systems</i>	06/2008
Distinguished Lecture, Purdue University <i>Sensitive Information in a Networked World</i>	01/2008
FuDiCo III Keynote Speaker, Bertinoro, Italy <i>Theory of Networked Computing?</i>	06/2007
EECS/CASE Colloquium, Syracuse University <i>Sensitive Information in a Networked World</i>	11/2006
Computer Science Colloquium, Cornell University: <i>Incentive-Compatible Interdomain Routing</i>	10/2005
NYU Theory Day Invited Speaker: <i>Progress on the PORTIA Project</i>	11/2004
Radcliffe Institute Symposium on Privacy and Security Invited Speaker (with P. Swire): <i>Control of Personal Information</i>	04/2004
ACM Symposium on Principles of Distributed Computing Tutorial Speaker (with S. Shenker): <i>Incentives and Internet Algorithms</i>	07/2003
Stanford Institute for Theoretical Economics Invited Speaker: <i>Distributed Algorithmic Mechanism Design</i>	07/2002

SELECTED TALKS, Continued

Association for Symbolic Logic Annual Meeting	03/2001
Plenary Speaker: <i>Incentive-Compatible Distributed Algorithms</i>	
Computer Science Building Dedication, Harvard University	10/1999
Invited Speaker: <i>Research and Development on the Frontiers of E-Commerce</i>	
SIAM Annual Meeting	05/1999
Plenary Speaker: <i>Massive Graphs: Algorithms, Applications, and Open Problems</i>	
American Mathematical Society Winter Meeting	01/1999
Plenary Speaker: <i>Massive Graphs: Algorithms, Applications, and Open Problems</i>	
International Congress of Mathematicians	08/1998
Invited Speaker: <i>Games, Complexity Classes, and Approximation Algorithms</i>	
Grace Hopper Celebration of Women in Computing	09/1997
Plenary Lecturer: <i>Security and Privacy in the Information Economy</i>	
Julia Robinson Celebration of Women in Mathematics	07/1996
Plenary Lecturer: <i>Decentralized Trust Management</i>	
ACM Federated Computing Research Conference	05/1996
SIAM Symposium on Networks and Information Management	
Invited Speaker: <i>Decentralized Trust Management</i>	
University of Wisconsin Computer Sciences Department	02/1996
Distinguished Lecturer: <i>Decentralized Trust Management</i>	
American Mathematical Society Winter Meeting	01/1995
Invited Speaker: <i>The Role of Coding Theory in Computational Complexity</i>	

Updated: August 21, 2017