

Radu Sion

Associate Professor, Computer Science, Stony Brook University
CEO, Private Machines Inc.

Director, National Security Institute (**NSI**)

Director, Stony Brook Network Security and Applied Cryptography (**NSAC**) Laboratory

Director, CEWIT Cloud Computing Center (**C³**)

Smart Cities Initiative of the New York Academies of Sciences, Stony Brook liaison.

Interests

Cyber-Security, Applied Cryptography, Network Security, Systems Security, Systems, Large-Scale and Cloud Computing, Green Computing, Cost and Energy-Efficiency

Education

Ph.D., Computer Science, Purdue University 2004

Professional Experience

- Associate Professor, *Stony Brook University* (Aug 2010 onwards)
- Assistant Professor, *Stony Brook University* (Jan 2005 - Aug 2010)
- Visiting Researcher, *IBM Almaden Research Center* (Mar - Dec 2004)
- Research Assistant, *Purdue Computer Science and CERIAS* (Aug 2001 - Aug 2004)
- Internship: Research Scientist, *NEC Labs* (May-Aug 2001, Jun 2002, May-Aug 2003)
- Internship: Software Engineer, *IBM* (May-Aug 2000)
- Research Assistant, *Purdue Computer Science*, BOND Agent System Lab (Spring 2000)
- Teaching Assistant, *Purdue Computer Science* (Fall 1999, 2000)
- CEO and Founder, *Smart Software Romania* (1996-99)
- Teaching Assistant, "*Politehnica*" U. of Bucharest Computer Science (1997-99)
- Research Assistant, "*Politehnica*" U. of Bucharest Digital Signal Processing Lab (1994-97)

Journal Publications

1. A. Chakraborti, R. Curtmola, J. Katz, J. Nieh, A. Sadeghi, R. Sion, Y. Zhang, "*Cloud Computing Security: Foundations and Research Directions*", Foundations and Trends in Privacy and Security, 2022
2. S. Bajaj, A. Chakraborti, R. Sion, "*ConcurDB: Concurrent Query Authentication for Outsourced Databases*", IEEE Transactions on Knowledge and Data Engineering **TKDE 2019**
3. M. Ehsan, R. Sion, "*Cost-Efficient Tasks and Data Co-Scheduling with AffordHadoop*", IEEE Transactions on Cloud Computing **TCC 2017**
4. S. Bajaj, A. Chakraborti, R. Sion, "*Practical Foundations of History Independence*", IEEE Transactions on Information Forensics & Security TIFS 2015
5. B. Carbutar, R. Sion, R. Potharaju, M. Ehsan, "*Private Badges in GeoSocial Networks*", IEEE Transactions on Mobile Computing, **TMC**, 2013
6. P. Williams, R. Sion, "*Access Privacy and Correctness on Untrusted Storage*", Transactions on Information and System Security **ACM TISSEC 2013**

7. S. Bajaj, R. Sion, "*TrustedDB: A Trusted Hardware based Database with Privacy and Data Confidentiality*", IEEE Transactions on Knowledge and Data Engineering **TKDE**, 2013
8. Y. Chen, R. Sion, "*On Securing Untrusted clouds with Cryptography*", IEEE Data Engineering Bulletin, Volume 36, 2013
9. B. Carbunar, Y. Chen, R. Sion, "*Tipping Pennies? Privately. Practical Micropayments for Network Services*", IEEE Transactions on Information Forensics & Security **TIFS** 2012
10. Y. Chen, R. Sion, "*Fighting Mallory the Insider: Strong Write Once Read Many Storage Assurances*", IEEE Transactions on Information Forensics & Security **TIFS** 2011
11. B. Carbunar, R. Sion, "*Write Once Read Many Oblivious RAM*", IEEE Transactions on Information Forensics & Security **TIFS**, June 2011
12. B. Carbunar, R. Sion, "*Toward Private Joins on Outsourced Data*", IEEE Transactions on Knowledge and Data Engineering **TKDE**, June 2011
13. P. Williams, R. Sion, M. Sotakova, "*Practical Oblivious Outsourced Storage*", Transactions on Information and System Security **ACM TISSEC**, volume 14, Issue 2, pages 1-28, September 2011 (acceptance rate: 10%)
14. L. Shi, B. Carbunar, R. Sion, "*Conditional E-Payments with Transferability*", Elsevier Journal of Parallel and Distributed Computing **JPDC**, volume 71 Issue 1, January 2011
15. J. Gao, R. Sion, S. Lederer, "*Collaborative Location Certification for Sensor Networks*", ACM Transactions on Sensor Networks **TOSN** volume 6, issue 4, 2010.
16. R. Hasan, R. Sion, M. Winslett, "*Preventing History Forgery with Secure Provenance*", ACM Transactions on Storage **TOS** volume 5, issue 4, pages 1-43, May 2009.
17. S. Bhatt, R. Sion, B. Carbunar, "*The Motorola Personal Mobile DRM Manager*", Elsevier Journal of Computers and Security, volume 28, issue 6, pages 327-340, September 2009
18. R. Sion, M. Atallah, S. Prabhakar, "*Rights Protection for Discrete Numeric Streams*", Transactions on Knowledge and Data Engineering **IEEE TKDE**, volume 18, issue 5, pages 699-714, May 2006
19. R. Natarajan, R. Sion, C. Apte, I. Narang, "*A Grid-based Approach for Enterprise-Scale Data Mining*", Future Generation Computer Systems, volume 23, pages 48-54, January 2007
20. R. Sion, M. Atallah, S. Prabhakar, "*Ownership Proofs for Categorical Data*", Transactions on Knowledge and Data Engineering **IEEE TKDE**, volume 17, issue 7, pages 912-926, July 2005
21. R. Sion, M. Atallah, S. Prabhakar, "*Protecting Rights for Relational Data using Watermarking*", Transactions on Knowledge and Data Engineering **IEEE TKDE**, volume 16, issue 6, pages 1509-1525, June 2004

Under Submission/Preparation

22. C. Chen, D. Suciu, R. Sion, "*KXRay: Introspecting kernels for rootkit timing footprints*"
23. D. Suciu, R. Sion, manuscript, submission to Oakland S&P
24. A. Chakraborti, D. Suciu, R. Sion, manuscript, submission to USENIX Security
25. Chen Chen, Xiao Liang, R. Sion, manuscript, submission to Oakland S&P
26. D. Suciu, Antonio Ken Iannillo, Sean Rivera, R. Sion, manuscript, submission to USENIX Security

Refereed Conference and Workshop Papers

27. S. Pinjala, B. Carbunar, R. Sion, A. Chakraborti, "*INVISILINE: Invisible Plausibly-Deniable Storage*", **2024 IEEE Symposium on Security and Privacy** (acceptance rate: 21.3%, 49/230)
28. A. Chakraborti, D. Suciu, R. Sion, "*Wink: Deniable Secure Messaging*", **USENIX Security 2024**

29. D. Suciu, R. Sion, M. Ferdman, "AppBastion: Protection from Untrusted Apps and OSes on ARM", European Symposium on Research in Computer Security **ESORICS 2022** (acceptance rate: 24%)
30. C. Chen, X. Liang, R. Sion, "SoK: Plausibly Deniable Storage: The Good, the Bad and the Ugly", Privacy Enhancing Technologies **PETS 2022** (acceptance rate: 18%)
31. A. K. Iannillo, S. Rivera, D. Suciu, R. Sion, R. State "An REE-independent Approach to Identify Callers of TEEs in TrustZone-enabled Cortex-M devices", ACM Cyber-Physical System Security Workshop **ACM CPSS 2022**
32. Chen Chen, Radu Sion, "PEARL: Plausibly Deniable Flash Translation Layer using WOM coding", **USENIX Security 2021** (acceptance rate: 16%)
33. Darius Suciu, Stephen McLaughlin, Laurent Simon, Radu Sion, "Horizontal Privilege Escalation in Trusted Applications", **USENIX Security 2020** (acceptance rate: 16%, 158/972)
34. Ionut Mugurel Anghel, Jake Christensen, Mihai Chiroiu, Rob Taglang, Radu Sion, "DECAF: Automatic, Adaptive De-bloating and Hardening of COTS Firmware", **USENIX Security 2020** (acceptance rate: 16%, 158/972)
35. Chen Chen, Anrin Chakraborti, Radu Sion, "INFUSE: Invisible plausibly-deniable file system for NAND flash", Privacy Enhancing Technologies **PETS 2020** (acceptance rate: 18%)
36. A. Chakraborti, R. Sion, "SqORAM: Read-optimized Sequential Write-only ORAM", Privacy Enhancing Technologies **PETS 2020** (acceptance rate: 18%)
37. C. Chen, A. Chakraborti, R. Sion, "PD-DM: An efficient locality-preserving block device mapper with plausible deniability", Privacy Enhancing Technologies **PETS 2019** (acceptance rate: 24%)
38. A. Chakraborti, A. Aviv, S. G. Choi, T. Mayberry, D. Roche, R. Sion, "rORAM: Efficient Range ORAM with $O(\log^2 N)$ Locality", Network and Distributed System Security Symposium **NDSS 2019** (acceptance rate: 17%, 89/521)
39. A. Chakraborti, R. Sion, "ConcurORAM: High-Throughput Stateless Parallel Multi-Client ORAM", Network and Distributed System Security Symposium **NDSS 2019** (acceptance rate: 17%, 89/521)
40. A. Chakraborti, C. Chen, R. Sion, "DataLair: Efficient Block Storage with Plausible Deniability against Multi-Snapshot Adversaries", Privacy Enhancing Technologies **PETS 2017** (acceptance rate: 23%, 32/138)
41. A. Chakraborti, Bhushan Jain, Jan Kasiak, Tao Zhang, Donald Porter, R. Sion, "dm-x: Protecting Volume-level Integrity for Cloud Volumes and Local Block Devices", ACM Asia-Pacific Workshop on Systems (APSys) 2017 (acceptance rate: 33%)
42. C. Chen, M. Ehsan, R. Sion, "Quantitative Musings on the Feasibility of Smartphone Clouds", in Proceedings of the IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing **CCGRID 2015** (acceptance rate: 25%, 69/268)
43. Dongli Zhang, M. Ehsan, M. Ferdman, R. Sion, "DIMMER: A case of turning off DIMMs in clouds", in Proceedings of the ACM Symposium on Cloud Computing **SOCC 2014** (acceptance rate: 24%, 29/119)
44. B. Jain, B. Baig, D. Zhang, D. Porter, R. Sion, "SoK: Introspections on Trust and the Semantic Gap", IEEE Symposium on Security & Privacy **Oakland S&P 2014** (acceptance rate: 13.58%, 44/324)
45. B. Baig, C. Fitzsimons, S. Balasubramanian, R. Sion, D. Porter, "CloudFlow: Cloud-wide policy enforcement using fast VM introspection", IEEE Conference on Cloud Engineering **IC2E 2014** (acceptance rate: 29%, 31/104)
46. M. Ehsan, Y. Chen, H. Kang, R. Sion, J. Wong, "LiPS: A Cost-Efficient Data and Task Co-Scheduler for MapReduce", Proceedings of High-Performance Computing **HiPC 2013** (acceptance rate: 25%, 49/196)

47. S. Bajaj, R. Sion, "*HIFS: History Independence for File Systems*", ACM Conference on Computer and Communications Security **CCS 2013**, November 2013 (acceptance rate: 19%, 105/530)
48. S. Bajaj, R. Sion, "*CorrectDB: SQL Engine with Practical Query Authentication*", Proceedings of The Very Large Databases Conference, **VLDB 2013** (acceptance rate: 13.2% accepted 44/334, 6.3% revisions 21/334)
49. S. Bajaj, R. Sion, "*Ficklebase: Looking into the Future to Erase the Past*", IEEE Conference on Data Engineering **ICDE 2013**, March 2013 (acceptance rate: 19.7%, 89/450)
50. P. Williams, R. Sion, "*Round-Optimal Access Privacy on Outsourced Storage*", ACM Conference on Computer and Communications Security **CCS 2012**, October 2012 (acceptance rate: 19%, 80/421)
51. P. Williams, R. Sion, A. Tomescu, "*A Parallel Oblivious File System*", ACM Conference on Computer and Communications Security **CCS 2012**, October 2012 (acceptance rate: 19%, 80/421)
52. B. Carbunar, R. Sion, R. Potharaju, M. Ehsan, "*The Shy Mayor: Private Badges in GeoSocial Networks*", Applied Cryptography and Network Security **ACNS 2012** (acceptance rate: 17.1%, 33/192)
53. P. Williams, R. Sion, "*SR-ORAM: Single Round-trip Oblivious RAM*", Applied Cryptography and Network Security **ACNS 2012** (industrial track, acceptance rate: 32.2%, 62/192)
54. S. Bajaj, R. Sion, "*TrustedDB: A Trusted Hardware - based Outsourced Database Engine*", Proceedings of The Very Large Databases Conference, **VLDB 2011**, pages 1359-1362 (demo)
55. B. Carbunar, R. Sion, "*Private Geo-Social Networking*", ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems **ACM GIS 2011**, Chicago, IL, November 2011
56. Y. Chen, R. Sion, "*To Cloud or Not to cloud? Musings on Costs and Viability*", ACM Symposium on Cloud Computing **ACM SOCC 2011**, Cascais, Portugal, October 2011 (acceptance rate: 16.8%, 30/178)
57. H. Kang, Y. Chen, R. Sion, J. Wong, "*Enhancement of Xen's Scheduler for MapReduce Workloads*", ACM Symposium on High-Performance Parallel and Distributed Computing **ACM HPDC 2011**, San Jose, California, June 2011 (acceptance rate: 12.9%, 22/170)
58. S. Bajaj, R. Sion, "*TrustedDB: A Trusted Hardware based Database with Privacy and Data Confidentiality*", Proceedings of the ACM Special Interest Group on Management of Data, **ACM SIGMOD 2011**, Athens, Greece, June 2011 (acceptance rate: 23%, 87/379)
59. M. Franz, P. Williams, B. Carbunar, S. Katzenbeisser, R. Sion, "*Oblivious Outsourced Storage with Delegation*", Financial Cryptography and Data Security Conference **FC 2011**, St. Lucia, February 2011 (full paper acceptance rate: 20%, 15/74)
60. Y. Chen, R. Sion, "*On Securing Untrusted Clouds with Cryptography*", ACM Workshop on Privacy in the Electronic Society **WPES 2010**, November 2010 (acceptance rate: 31%, 15/48)
61. B. Carbunar, R. Sion, "*Joining Privately on Outsourced Data*", VLDB Workshop on Secure Data Management **SDM 2010**
62. B. Carbunar, R. Sion, "*Regulatory Compliant Oblivious RAM*", Applied Cryptography and Network Security **ACNS 2010** (acceptance rate: 18.5%, 33/178)
63. M. Sotakova, H. Busch, S. Katzenbeisser, R. Sion, "*The PUF Promise (a short paper)*", Trust and Trustworthy Computing Conference **TRUST 2010**
64. P. McDaniel, K. Butler, S. McLaughlin, R. Sion, E. Zadok, M. Winslett, "*Towards a Secure and Efficient System for End-to-End Provenance*", USENIX Workshop on the Theory and Practice of

- Provenance **TAPP 2010**, in conjunction with the 8th USENIX Conference on File and Storage Technologies (FAST 2010)
65. R. Hasan, R. Sion, M. Winslett, "*The Case of the Fake Picasso: Preventing History Forgery with Secure Provenance*", USENIX Conference on File and Storage Technologies **FAST 2009**, pages 1-14, San Francisco, California, February 2009 (acceptance rate: 22.5%, 23/102)
 66. P. Williams, R. Sion, D. Shasha, "*The Blind Stone Tablet: Outsourcing Durability*", Network and Distributed Systems Security Symposium **NDSS 2009**, San Diego, California, February 2009 (acceptance rate: 11%, 20/171)
 67. Y. Chen, R. Sion, B. Carbunar, "*XPay: Practical anonymous payments for Tor routing and other networked services*", ACM Workshop on Privacy in the Electronic Society **WPES 2009**, Chicago, Illinois, November 2009 (full paper acceptance rate: 27%, 8/29)
 68. R. Hasan, R. Sion, M. Winslett, "*Remembrance: The Unbearable Sentience of Being Digital*", Biennial Conference on Innovative Data Systems Research **CIDR 2009**, Asilomar, Monterey, California, January 2009 (acceptance rate: 27%, 19/70)
 69. P. Williams, R. Sion, B. Carbunar, "*Building Castles out of Mud: Practical Access Pattern Privacy and Correctness on Untrusted Storage*", ACM Conference on Computer and Communications Security **CCS 2008**, pages 139-148, Alexandria, Virginia, October 2008 (acceptance rate: 18%, 51/281)
 70. R. Sion, "*Strong WORM*", International Conference on Distributed Computing Systems **ICDCS 2008**, pages 69-86, Beijing, China, June 2008 (acceptance rate: 15%, 102/638)
 71. P. Williams, R. Sion, "*Usable PIR*", Network and Distributed Systems Security Symposium **NDSS 2008**, San Diego, California, February 2008 (acceptance rate: 16%, 20/121)
 72. R. Sion, S. Bajaj, B. Carbunar, S. Katzenbeisser, "*NS2: Networked Searchable Store with Privacy and Correctness*", The Very Large Databases Conference, **VLDB 2007**, pages 1342-1345, Vienna, Austria, September 2007 (demo)
 73. S. Lederer, J. Gao, R. Sion, "*On Certifying Location claims in Sensor Networks*", Applied Cryptography and Network Security **ACNS 2007**, Zhuhai, China, June 2007 (industrial track, acceptance rate: 27%, 60/220)
 74. L. Shi, B. Carbunar, R. Sion, "*Conditional E-Cash*", Financial Cryptography and Data Security Conference **FC 2007**, pages 15-28, Scarborough, Trinidad and Tobago, February 2007 (acceptance rate: 18%, 16/85)
 75. S. Bhatt, B. Carbunar, R. Sion, V. Vasudevan, "*The Motorola Personal Digital Rights Manager*", Financial Cryptography and Data Security Conference (demo) **FC 2007**, pages 246-248, , Scarborough, Trinidad and Tobago, February 2007 (acceptance rate: 18%, 16/85)
 76. R. Sion, B. Carbunar, "*On the Computational Practicality of Private Information Retrieval*", Network and Distributed Systems Security Symposium **NDSS 2007**, San Diego, California, February 2007 (acceptance rate: 15%, 18/125)
 77. R. Hasan, R. Sion, M. Winslett, "*Introducing Secure Provenance: Problems and Challenges*", International Workshop on Storage Security and Survivability **StorageSS 2007**, in conjunction with CCS, pages 13-18, Alexandria, Virginia, October 2007
 78. R. Hasan, M. Winslett, R. Sion, "*Requirements of Secure Storage Systems for Health-care Records*", International Workshop on Secure Data Management **SDM 2007**, in conjunction with VLDB, pages 174-180, Vienna, Austria, September 2007
 79. B. Carbunar, R. Sion, "*Uncheatable Reputation for Distributed Computation Markets*", Financial Cryptography and Data Security Conference **FC 2006**, pages 96-110, Anguilla, British West Indies,

February 2006 (acceptance rate: 22%)

80. R. Sion, R. Natarajan, I. Narang, T. Phan, "*XG: A Grid-Enabled Query Processing Engine*", International Conference on Extending Database Technology **EDBT 2006**, pages 1115-1120, Munich, Germany, March 2006 (acceptance rate: 34%, 20/58), also in **Lecture Notes in Computer Sciences** 3896 Springer 2006
81. R. Sion, "*Query Execution Assurance for Outsourced Databases*", The Very Large Databases Conference, **VLDB 2005**, pages 601-612, Trondheim, Norway, August 2005 (acceptance rate: 16%, 32/195)
82. T. Phan, K. Ranganathan, R. Sion, "*Evolving to the Perfect Schedule: Co-scheduling Job Assignments and Data Replication in Wide-Area Systems Using a Genetic Algorithm*", Workshop on Job Scheduling Strategies for Parallel Processing **JSSPP 2005**, pages 173-193, in Conjunction with the ACM International Conference on Supercomputing **ICS 2005**, Cambridge, Massachusetts, June 2005
83. R. Sion, R. Natarajan, I. Narang, W. Li, T. Phan, "*XG: A Data-driven Computation Grid for Enterprise-Scale Mining*", International Conference on Database and Expert Systems Applications **DEXA 2005**, pages 828-837, Linz, Austria, September 2005 (acceptance rate: 23%, 92/390)
84. R. Sion, J. Tatemura, "*Dynamic Stochastic Models for Workflow Response Optimization*", IEEE International Conference on Web Services (Industry Track) **ICWS 2005**, pages 657-664, Orlando, Florida, July 2005 (acceptance rate: 18%, 37/199)
85. R. Sion, M. Atallah, S. Prabhakar, "*Resilient Rights Proofs for Sensor Streams*", Proceedings of the Conference on Very Large Databases **VLDB 2004**, pages 732-743, Toronto, Canada, August 2004 (acceptance rate: 16%, 81/504)
86. R. Sion, "*Proving Ownership over Categorical Data*", Proceedings of the IEEE International Conference on Data Engineering **IEEE ICDE 2004**, pages 584-596, Boston, Massachusetts, March 2004 (acceptance rate: 14%, 63/441)
87. Y. Tu, S. Prabhakar, A. Elmagarmid, R. Sion, "*QuaSAQ: An Approach to Enabling End-to-End QoS for Multimedia Databases*", International Conference on Extending Database Technology **EDBT 2004**, pages 694-711, Heraklion, Crete, Greece, March 2004 (acceptance rate: 14%, 42/294)
88. R. Sion, M. Atallah, S. Prabhakar, "*wmdb.*: Rights Protection for Numeric Relational Data*", Proceedings of the IEEE Intl. Conference on Data Engineering (demo) **IEEE ICDE 2004**, pages 863-864, Boston, Massachusetts, March 2004
89. R. Natarajan, R. Sion, C. Apte, I. Narang, "*A Grid Based Approach for Enterprise-Scale Data Mining*", Data Mining and The Grid Workshop (**DM-Grid**), at the IEEE International Conference on Data Mining **ICDM 2004**, Brighton, United Kingdom, November 2004
90. R. Sion, "*Rights Protection beyond Multimedia*", Proceedings of the **EDBT/ICDE** PhD Workshop, pp. 109-118, Boston, March 2004 (acceptance rate: 25.5%, 22/86)
91. R. Sion, M. Atallah, "*Attacking Digital Watermarks*", Proceedings of the Symposium on Electronic Imaging (Security, Steganography, and Watermarking of Multimedia Contents) **SPIE 2004**, pages 848-858, San Jose, California, January 2004
92. R. Sion, M. Atallah, S. Prabhakar, "*On-the-fly Intrusion Detection for Web Portals*", IEEE Coding and Computing, **ITCC 2003**, pages 325-330, Las Vegas, Nevada, April 2003, **IEEE Computer Society Press**
93. R. Sion, M. Atallah, S. Prabhakar, "*Rights Protection for Relational Data*", Proceedings of the ACM Special Interest Group on Management of Data, **ACM SIGMOD 2003**, pages 98-109, San Diego,

- California, May 2003 (acceptance rate: 15%, 52/342)
94. R. Sion, M. Atallah, S. Prabhakar, "*Resilient Information Hiding for Abstract Semi-Structures*", Intl. Workshop on Digital Watermarking **IWDW 2003**, pages 143-158, Seoul, Korea, October 2003, and also in **Lecture Notes in Computer Sciences (LNCS) 2939** Springer 2004
 95. R. Sion, M. Atallah, S. Prabhakar, "*Power: A Metric for Evaluating Watermarking Algorithms*", IEEE Coding and Computing, **ITCC 2002**, Las Vegas, Nevada, April 2002, **IEEE Computer Society Press** PR01506, pp. 95-99
 96. W. Li, W. Hsiung, D.V. Kalashnikov, R. Sion, O. Po, D. Agrawal, K. S. Candan, "*Issues and Evaluations of Caching Solutions for Web Application Acceleration*", Proceedings of the Conference on Very Large Databases **VLDB 2002**, pages 1019-1030, Hong Kong, China, August 2002 (acceptance rate: 17%). NEC CachePortal won the **Best of CeBIT award** in the **Enterprise Platform Software** category in May 2004.
 97. R. Sion, M. Atallah, S. Prabhakar, "*On Watermarking Numeric Sets*", Intl. Workshop on Digital Watermarking **IWDW 2002**, Seoul, Korea, November 2002, and also in **Lecture Notes in Computer Science (LNCS) 2613**, pages 130-146, Springer-Verlag 2003
 98. M. Atallah, V. Raskin, C. F. Hempelmann, M. Karahan, R. Sion, K. E. Triezenberg, U. Topkara, "*Natural Language Watermarking and Tamperproofing*", Information Hiding Workshop **IH 2002**, Noordwijkerhout, The Netherlands, October 2002, **Lecture Notes in Computer Science (LNCS) 2578** Springer-Verlag 2003, pages 196-212, ISBN 3-540-00421-1 (acceptance rate: 34%, 27/78)
 99. L. Boloni, K. Jun, D. Marinescu, K. Palacz, R. Sion, "*The BOND Agent System and Applications*", in **ASA/MA 2000**, Zurich, Switzerland, September 2000, and in "*Agent Systems, Mobile Agents, and Applications*", (D. Kotz and F. Mattern, editors), **Lecture Notes in Computer Science 1882**, pages 99-112, Springer-Verlag (acceptance rate: 18%, 20/107)

Peer-reviewed Chapters

100. A. Chakraborti, R. Sion, "*Secure Data Outsourcing*", in Encyclopedia of Cryptography, Security and Privacy 2021
101. R. Sion, J. Tatemura, "*Runtime Web-Service Workflow Optimization*", chapter in "New Frontiers in Information and Software as Services", Springer-Verlag LNBI 2011, pg. 112-131
102. R. Sion, "*Data Outsourcing*", in the Springer Encyclopedia of Cryptography and Security 2010
103. R. Sion, M. Winslett, "*Regulatory Compliance in Information Systems*", chapter in the Handbook of Financial Cryptography, Burt Rosenberg (editor), Chapman & Hall/CRC Cryptography and Network Security Series, ISBN 978-1-420-05981-6, June 2010
104. R. Hasan, M. Winslett, S. Mitra, W. Hsu, R. Sion, "*Trustworthy Record Retention*", invited/refereed chapter in the "Handbook of Database Security: Applications and Trends", M. Gertz and S. Jajodia (editors), Springer Verlag 2008, XIV, ISBN: 978-0-387-48532-4
105. R. Sion, "*Secure Data Outsourcing*", in the "Handbook of Database Security: Applications and Trends", M. Gertz and S. Jajodia (eds.), Springer Verlag 2008, XIV, ISBN: 978-0-387-48532-4
106. R. Sion, "*Database Watermarking*", invited/refereed chapter in the "Handbook of Database Security: Applications and Trends", M. Gertz and S. Jajodia (editors), Springer Verlag 2008, XIV, ISBN: 978-0-387-48532-4
107. R. Sion, "*Digital Rights Management*", in the Encyclopedia of Database Systems **EDS 2007** (Ling Liu and Tamer Ozsu, Editors)
108. R. Sion, "*Regulatory Compliance in Data Management*", in the Encyclopedia of Database

Systems **EDS 2007** (Ling Liu and Tamer Ozsü, Editors)

109. R. Sion, "*Rights Assessment for Relational Data*", invited/refereed chapter in "Secure Data Management in Decentralized Systems", T. Yu, S. Jajodia (eds), Springer Verlag 2007, pg 427-457

Books and Translations

110. I. Athanasiu, D. Raiciu, R. Sion, I. Mocanu, "*Formal Languages. An Applications Guide*", Matrix ROM Publishing, ISBN 973-685-407-8, 2002
111. A. S. Tanenbaum, "*Computer Systems Structure, fifth Edition, 1999*", invited to participate in the first time English to Romanian translation, Agora Press, 1999
112. R. Sion, D. Lada, "*Introduction to the Internet*", course materials at the Romanian Chamber of Commerce and Industry, Business Information Center, 1st Edition 1995, reprinted 1996

Chaired Conferences/Workshops

113. R. Sion, K. Lauter, A. Sadeghi, N. Smart, "*Modern Cryptography and Security: An Inter-Community Dialogue*", February 2016
114. R. Sion (Ed.), "*Proceedings of the 2012 Network and Distributed Systems Symposium NDSS*", San Diego, California, February 2012
115. A. Perrig, R. Sion (Eds.), "*Proceedings of the 2010 ACM Workshop on Cloud Computing Security*", Chicago, Illinois, USA November 2010, ACM, ISBN:978-1-4503-0089-6
116. R. Sion (Ed.), "*Proceedings of the 2010 Financial Cryptography and Data Security Conference*", Lecture Notes in Computer Science, Subseries: Security and Cryptology, Vol. 6052, 2010, XII, 432 p., ISBN: 978-3-642-14576-6
117. R. Sion, R. Curtmola, S. Dietrich, A. Kiayias, J.M. Miret, K. Sako, F. Seb  (Eds.) , "*Workshops of the 2010 Financial Cryptography and Data Security Conference*", Lecture Notes in Computer Science, Subseries: Security and Cryptology, Vol. 6054, 2010, X, 257 p., ISBN: 978-3-642-14991-7
118. R. Sion, D. Song (Eds.), "*Proceedings of the 2009 ACM Workshop on Cloud Computing Security*", Chicago, Illinois, USA November 13, 2009, ACM, ISBN 978-1-60558-784-4

Theses

119. R. Sion, "*Rights Assessment for Discrete Digital Data*", PhD dissertation in Computer Science at Purdue University, August 2004 (nominated for ACM Dissertation Award)
120. R. Sion, "*Talking Objects*", MS thesis in Computer Science at the "Politehnica" University of Bucharest, May 1999

Selected Invited Papers and Refereed Posters

1. A. Chakraborti, R. Sion, "ConcurORAM: High-Throughput Parallel Multi-Client ORAM", poster at ACM Conference on Computer and Communication Security **CCS 2016** (acceptance rate: 41%, 38/92)
2. A. Chakraborti, R. Sion, "DataLair: A Storage Block Device with Plausible Deniability", poster at ACM Conference on Computer and Communication Security **CCS 2016** (acceptance rate: 41%, 38/92)
3. C. Chen, D. Suci, R. Sion, "DroidShield: Protecting user applications from normal world access",

- poster at ACM Conference on Computer and Communication Security **CCS 2016** (acceptance rate: 41%, 38/92)
4. C. Chen, D. Suci, R. Sion, "KXRay: Introspecting the kernel for rootkit timing footprints", invited poster at ACM Conference on Computer and Communication Security **CCS 2016** (acceptance rate: 41%, 38/92)
 5. A. Zuck, D. Tsafir, D. Porter, R. Sion, "Practical Plausibly Deniable Encryption through Low Level Flash Behaviors", Poster at **SOSP 2015**
 6. S. Bajaj, A. Chakraborti, R. Sion, "*ConcurDB: Concurrent Query Authentication for Outsourced Databases*", **USENIX ATC 2015** (acceptance rate: 30%)
 7. M. Ehsan, R. Sion, "*Unclogger: The Network and CPU Interference-Aware Scheduler for Cloud*", ACM Symposium on Cloud Computing **SOCC 2014**
 8. M. Ehsan, K. Chandrasekaran, R. Sion, "*AffordHadoop: Co-scheduling MapReduce Tasks with In-House Data*", ACM Symposium on Cloud Computing **SOCC 2014**
 9. M. B. Baig, D. Zhang, R. Sion, "*Gecko - Kernel Object Mapping with Semantic Classification of Memory*", poster at the ACM Symposium on Operating Systems Principles **SOSP 2013**
 10. S. Bajaj, C. Chen, A. Kumar, R. Sion, "*HIFS: History Independence for File Systems*", poster at the ACM Symposium on Operating Systems Principles **SOSP 2013**
 11. B. Baig, R. Sion, "*Cloudtracker: Cloud-wide policy enforcement with real-time VM introspection*", poster at the IEEE Symposium on **Security and Privacy 2013**
 12. M. Ehsan, R. Sion, "LiPS: A Cost-Efficient Data and Task Co-Scheduler for MapReduce", IEEE International Parallel and Distributed Processing Symposium **IPDPS 2013**
 13. Y. Chen, R. Sion, "*On Securing Untrusted Clouds with Cryptography*", ARO Workshop on Cloud Security 2013
 14. B. Carbunar, R. Sion, R. Potharaju, M. Ehsan, "*The Shy Mayor: Private Badges in GeoSocial Networks*", poster at the IEEE Symposium on **Security & Privacy 2012**
 15. S. Bajaj, R. Sion, "*TrustedDB: A Trusted Hardware - based Outsourced Database Engine*", poster at the IEEE Symposium on **Security & Privacy 2012**
 16. R. Nithyanand, R. Sion, J. Solis, "*Making the case for intrinsic Personal Physical Unclonable Functions (IP-PUFs)*", ACM Conference on Computer and Communications Security **CCS 2011**, Chicago, Illinois, October 2011
 17. R. Hasan, R. Sion, M. Winslett, "*SPROV 2.0: A Highly-Configurable Platform-Independent Library for Secure Provenance*", ACM Conference on Computer and Communications Security **CCS 2009**, Chicago, Illinois, November 2009
 18. P. Williams, M. Sotakova, R. Sion, "*A Little Storage Goes a Long Way: Accelerating Private Information Retrieval*", ACM Conference on Computer and Communications Security **CCS 2009**, Chicago, Illinois, November 2009
 19. R. Agnihotri, R. Sion, "*cDB: SCPU-enabled Secure SQL Engine*", ACM Conference on Computer and Communications Security **CCS 2009**, Chicago, Illinois, November 2009
 20. Y. Chen, R. Sion, "*The Dollar Cost of Security*", ACM Conference on Computer and Communications Security **CCS 2009**, Chicago, Illinois, November 2009
 21. P. Williams, R. Devgan, R. Sion, "*Outsourcing Durability*", ACM Conference on Computer and Communications Security **CCS 2009**, Chicago, Illinois, November 2009
 22. R. Sion, P. A. Jadhav, "*MobileEMR: Mobile Electronic Medical Records*", ACM Conference on Computer and Communications Security **CCS 2009**, Chicago, Illinois, November 2009
 23. R. Sion, A. Venkateshan, "*Deploying Trusted Hardware to Secure Urban Sensing*", ACM

- Conference on Computer and Communications Security **CCS 2009**, Chicago, Illinois, November 2009
24. R. Hasan, R. Sion, M. Winslett, "*S PROV: A Secure Provenance Library*", **USENIX Annual Technical Conference 2009**, San Diego, California, June 2009
 25. S. Lederer, J. Gao, R. Sion, "*Collaborative Location Certification for Sensor Networks*", invited paper at the **IEEE Sarnoff Symposium 2008**, Princeton, New Jersey, April 2008
 26. Panel chair for the "*Cellular Network Security*", with Ron Buskey, John Larson, Simon Mizikovsky, Hao Chen, Thomas La Porta, Patrick Traynor at **USENIX Security 2007**, Boston, Massachusetts, August 2007
 27. R. Sion, "*Private and Correct Networked Secure Searchable Storage*", **USENIX Security 2007**, Boston, Massachusetts, August 2007
 28. S. Lederer, J. Gao, R. Sion, "*Collaborative Location Certification for Sensor Nets*", SecureComm 2006, Baltimore, Maryland, August 2006
 29. "*NS3: Networked Secure Searchable Storage*", USENIX Security 2006, Vancouver, British Columbia, August 2006
 30. "*Personal DRM Systems in mobile environments*", Symposium on Security & Privacy 2006, Oakland, California, May 2006
 31. "*Mechanisms for Secure Reputation*", IEEE Symposium on Security & Privacy 2005, Oakland, California, May 2005
 32. "*Ensuring Fair Trust in Reputation Based Systems*", USENIX Security 2004, San Diego, California, August 2004
 33. M. Atallah, S. Prabhakar, K. Friksen, R. Sion, "*Digital Rights Protection*", invited paper for the **IEEE Data Engineering Bulletin**, pages 19-25, 2004
 34. "*Provable Access Accounting for Content Distribution Networks*", ACSAC 2003, Las Vegas, Nevada, December 2003
 35. "*Intrusion Detection for Networked Hyper-Data*", IFIP Communications and Multimedia 2002, Portoroz, Slovenia, September 2002
 36. R. Sion, L. Boloni, "*MicroServers*", Congress on Evolutionary Computation, Session on Evolutionary Intelligent Agents, **CEC 2000, IEEE Computer Society Press**, San Diego, California, May 2000
 37. "*Network Distribution, Java and Multi-platform Networking*", SunSITE iNET Workshop 1997, Bucharest
 38. "*Exceptions and Networking Support in Java*", The First Java Workshop, P.U.B. Press 1996

Magazine Publications and Interviews

1. B. Jain, B. Baig, D. Zhang, D. Porter, R. Sion, "*Introspections on the Semantic Gap*", **IEEE S&P Magazine 2015**
2. "*The Growing Use of 'Voiceprint' Passwords Is Another Threat to Your Privacy*", interview in Vice News, October 13, 2014
3. "*How to Break Cryptography With Your Bare Hands*", interview in **MIT Technology Review**, August 20, 2014
4. "*Tamper-Proof Chips, with Some Work, Might Give Up Their Secrets*", interview in **MIT Technology Review**, September 11, 2013
5. "*Why Email Can't Be Completely Private*", interview in **MIT Technology Review**, August 14, 2013

6. *"'Massive' Cyberattack Wasn't Really So Massive"*, interview in **MIT Technology Review**, March 29, 2013
7. *"Why Obama's Cyber Defense Order Won't Amount to Much"*, interview in **MIT Technology Review**, February 15, 2013
8. *"The Most Controlling Smartphone Ever Made"*, interview in **MIT Technology Review**, December 6, 2012
9. *"Wiping Away your Siri Fingerprint"*, interview in **MIT Technology Review**, June 28, 2012
10. *"Attacks on Android Devices Intensify"*, interview in **MIT Technology Review**, Feb. 8, 2012
11. *"The Cyber Security Industrial Complex"*, interview in **MIT Technology Review**, Dec. 6, 2011
12. *"Security Researchers Rain on Amazon's Cloud"*, interview in **MIT Technology Review**, Oct. 28, 2011
13. Md. B. Uddin, B. He, R. Sion, *"Cloud Performance Benchmark Series: Amazon Elastic Load Balancer (ELB)Benchmark"*, Cloud Commons Online, April 2011
14. S. Sanghrajka, R. Sion, *"Cloud Performance Benchmark Series: Network Performance – Rackspace.com"*, Cloud Commons Online, March 2011
15. S. Sanghrajka, N. Mahajan, R. Sion, *"Cloud Performance Benchmark Series: Network Performance – Amazon EC2"*, Cloud Commons Online, February 2011
16. K. Sarda, S. Sanghrajka, R. Sion, *"Cloud Performance Benchmark Series: Amazon EC2 vs. Rackspace.com CPU Speed Benchmark"*, Cloud Commons Online, January 2011
17. K. Sarda, S. Sanghrajka, R. Sion, *"Cloud Performance Benchmark Series: Amazon EC2 CPU Speed Benchmark"*, Cloud Commons Online, November 2010
18. S. J. Nadgowda, R. Sion, *"Cloud Performance Benchmark Series: Amazon EBS, S3, and EC2 Instance Local Storage"*, Cloud Commons Online, October 2010
19. Md. B. Uddin, B. He, R. Sion, *"Cloud Performance Benchmark Series: Amazon RDS TPC-C Benchmark"*, Cloud Commons Online, August 2010
20. Md. B. Uddin, B. He, R. Sion, *"Cloud Performance Benchmark Series: Amazon EC2 Web Serving"*, Cloud Commons Online, July 2010
21. *"Security in the Ether: Information technology's next grand challenge will be to secure the cloud-and prove we can trust it"*, interview in **MIT Technology Review**, Dec. 24, 2009
22. *"Self-Policing Cloud Computing"*, interview in **MIT Technology Review**, Nov. 20, 2009
23. *"Searching an Encrypted Cloud"*, interview in **MIT Technology Review**, Nov. 13, 2009
24. *"Vulnerability in Amazon's Cloud"*, interview in **MIT Technology Review**, Oct. 23 2009
25. R. Hasan, R. Sion, M. Winslett, *"Secure Provenance: Protecting the Genealogy of Bits"*, ;login: The USENIX Magazine, June 2009
26. Kate Greene, *"Forensic Watermarks in Mobile Devices: Researchers are working on a new watermarking scheme to deter people from illegally sharing videos"*, **MIT Technology Review**, December 11, 2006
27. *"Electronic Commerce: JavaCard"*, *PC-Report*, Sep. 1999
28. *"The JINI vision"*, *BYTE Romania*, Nov. 1998
29. *"JINI, a new beginning"*, *PC-Report*, Oct. 1998
30. *"Internet Serving"*, *PC-Report*, Sep. 1998
31. *"Modern Portable Software Design"*, *PC-Report*, Aug. 1998
32. *"Introduction to VRML 2.0"*, *PC-Report*, May 1998

Patent Disclosures

1. Multiple patent disclosures at Stony Brook, IBM, and Private Machines Inc.
2. *"Database outsourcing with access privacy"*, US Pat. 8458451
3. *"Method and Means for Co-scheduling Job Assignments and Data Replication in Wide Area Distributed Systems"*, US Pat. 11466778
4. *"Method and system for rights assessment over digital data through watermarking"*, US Pat. 10852674, US Pat. 7,539,872

Invited Talks (excluding conference talks and tutorials)

1. *"Privacy Technologies in the age of Donald Trump. Plausible Deniability and Transparent Encryption"*, invited talk at MIT CSAIL, April 2018.
2. *"Plausible Deniability and Transparent Encryption"*, invited talk at the University of Tartu, Estonia, August 2017
3. *"Privacy Technologies. Plausible Deniability and Transparent Encryption"*, invited talk at the University of London, August 2017
4. *"Plausible Deniability. Cyber Security Research at the National Security Institute"*, invited talk at the Steklov Institute of Mathematics in St. Petersburg, December 2016
5. *"The Age of Bitcoin"*, invited talk at the 2016 Financial Cryptography Conference
6. *"Wild and Crazy Ideas"*, invited talk at the Conference on Architectural Support for Programming Languages and Operating Systems, ASPLOS 2016, Atlanta, April 2016
7. *"Plausible Deniability and Her Majesty's Government. On Forensics in the age of David Cameron"*, invited talk at the US ARMY Workshop on Emerging Cyber Techniques and Technologies, Miami, November 2015
8. *"Privacy, Security, and Energy in Modern Clouds. Three Buzzwords in A Boat: The Amusing Adventures of a Naive Academic on Wall Street"*, invited talk at University College London, November 2015
9. *"Practical Security for the Masses. A Journey of Love, Passion and Discovery"*, invited talk at Computer Security Workshop at University of Bristol, November 2015
10. *"Security, Energy, and Karma in Modern Clouds"*, invited talk at the Summer school on Secure and Trustworthy Computing, September 2015
11. *"Practical Searchable Encryption for the Masses"*, invited talk at Bertinoro *Encryption for Search and other Algorithms Workshop*, June 2015
12. *"Cyber Security in the Quantum Age"*, featured speaker, World Science Festival, May 2015
13. *"The Imitation Game"*, invited on panel at the Alfred P. Sloan Foundation Feature Film Prize at the Hamptons International Film Festival, October 2014
14. *"Modern Secure Data Management"*, invited talk at the University of Waterloo, June 2014
15. *"Cloud-wide policy enforcement using fast VM introspection. Ancestral Myths on Clouds and Other Weather Phenomena. Costs, Energy and Security in Clouds"*, invited talk at the University of Maryland Cyber Security Center, May 2014
16. *"CloudFlow: Cloud-wide policy enforcement using fast VM introspection"*, invited talk at the DIMACS Workshop on Secure Cloud Computing, March 2014
17. *"Modern Secure Data Management"*, invited talk at the University of British Columbia, January 2014
18. *"To Startup or not to startup. Academics/Entrepreneurs share their experiences"*, panel at the

- Very Large Databases **VLDB 2013** conference, Italy, August 2013
19. *"Tales from the crypt of academia"*, panel at the PhD workshop, co-located with the Very Large Databases **VLDB 2013** conference, Italy, August 2013
 20. *"Buzzword Haven: Clouds, Security, Energy. Or, meanwhile at the ranch in Stony Brook"*, invited talk at the NYIT Cybersec Conference, September 2013
 21. *"To Cloud Or Not To? Musings at the intersection of Clouds, Security and Big Data"*, invited talk at Secure Data Management **SDM**, Trento, Italy, August 2013
 22. *"To Cloud My Big Data Or Not To? Musings at the intersection of Big Data, Intense Computing and Clouds"*, **ScienceCloud 2013** invited talk, New York City, June 2013
 23. *"Securing the Clouds. Costs of Computing at Scale and Why Cryptography Can(not) Be Viably Applied (Yet)"*, **ARMY Research Office Workshop on Cloud Security**, March 2013
 24. *"Why are Privacy Protocols not Used in Practice"*, panel at the Dagstuhl Privacy-Oriented Cryptography Workshop, September 2012
 25. *"The Cloud Era: Revolution or Evolution"*, Technion CE Conference, Israel, June 2012
 26. *"Key research topics for multi-stakeholders cybersecurity R&D"*, 2012 Cyber Security Research Institute (CSRI) Workshop, Lockheed Martin, Global Vision Center (GVC)
 27. *"Ancestral Myths on Clouds and Other Weather Phenomena"*, CS, **Wisconsin**, Madison, October 2012
 28. *"Practical Oblivious Access at 1Mbps+"*, talk at the Dagstuhl Privacy-Oriented Cryptography Workshop, September 2012
 29. *"Clouding: verb; to obscure, to cloud the issues"*, invited talk at the ETH Zurich Information Security and Privacy Center, June 2012
 30. *"Why and When Storing Data in Clouds is Not a Good Idea"*, invited keynote at SYSTOR and IBM Haifa, Israel, June 2012
 31. *"Cloud Computing Security and Economics"*, invited keynote in plenary of Dagstuhl "Secure Architectures in the Cloud" and "Secure Cloud Computing" invitational workshops, December 2011
 32. *"Security issues in Clouds for Big Pharma"*, invited talk in panel at the Licensing Executives Society **LES** Pharma Plenary, New York City, May 2011
 33. *"The Economics of Cloud Computing. Why a Brooklyn Latte buys a million unforgeable signatures"*, talk at the 2011 **Microsoft Research Faculty Summit**, Seattle, July 2011
 34. *"Clouds and Cryptography"*, talk at the European Network of Excellence in Cryptology (ECRYPT) Workshop on **Cryptography and Security in Clouds**, Zurich, March 2011
 35. *"To Cloud or not To"*, **Columbia University** CS, January 2011
 36. *"Cyber-Security Research in Clouds"*, **British Consulate General, New York**, Nov. 2010
 37. *"A Small Latte or a PetaCycle? You Decide. The Economics of Cloud Computing OR why and when deploying to clouds is not a good idea"*, **U. of British Columbia**, November 2010
 38. *"Time for Our Field to Grow Up"*, panel at the International Conference on Very Large Databases **VLDB 2010**, Singapore, September 2010
 39. *"Trusted Hardware"*, **Technical University Darmstadt** CS, Germany, May 2010
 40. *"Trusting Hardware for Fun and Profit"*, North East Security&Privacy Day, December 2009
 41. *"Cloud Computing"*, **Politehnica U. of Bucharest** CS, November 2009
 42. *"Security vs. Costs and Energy in Clouds"*, **CMU CyLab**, October 2009
 43. *"Clouds at the crossroads of Costs, Energy and Security"*, **UC Berkeley**, September 2009
 44. *"Let's Talk About Clouds"*, **TU Berlin** CS, June 2009

45. "Regulatory Compliance in Information Systems", **INRIA Paris, Rocquencourt**, Sep. 2008
46. "Trusted Hardware in Systems", **Universita di Roma La Sapienza, CS**, May 2008
47. "On Trusted Hardware and Privacy Systems", **Brooklyn Polytech CS**, March 2008
48. "Towards Regulatory Compliance in Data Management", **UIUC CS**, October 2007
49. "Towards Regulatory Compliance in Data Management", **UC Berkeley CS**, October 2007
50. "Towards Regulatory Compliance in Data Management", **U. Arizona**, October 2007
51. "Towards Regulatory Compliance in Data Management", **BAE Systems**, July 2007
52. "Regulatory Compliance in Data Management", **Hong Kong Polytechnic CS**, June 2007
53. "Conditional Electronic Payments with Transferability", **Stanford CS**, April 2007
54. "Enterprise DRM Infrastructure for Cellular Contexts", **Motorola Labs**, April 2007
55. "Conditional Electronic Payments with Transferability", **Purdue CS**, April 2007
56. "Regulatory Compliance in Data Management", **IBM Research (Almaden)**, April 2007
57. "Forensic Watermarks in Mobile Devices", **MIT Technology Review**, December 2006
58. "On the Practicality of Private Information Retrieval", **Johns Hopkins CS**, December 2006
59. "Achieving Practical Private Information Retrieval", panel at **SecureComm 2006**, August 2006
60. "Cyber Security Research at Stony Brook", **Politehnica U. of Bucharest CS**, June 2006
61. "Secure Data Outsourcing: Search and Query", **IBM Research (Watson)**, May 2005
62. "Rights Protection for Digital Data", **U. of Florida CS**, Gainesville, February 2004
63. "Rights Protection for Digital Data", **Ohio State CS**, February 2004
64. "Rights Protection beyond Multimedia", **CS, Wisconsin**, Madison, February 2004
65. "Rights Protection beyond Multimedia", **CS, Illinois at Urbana-Champaign**, January 2004
66. "Watermarking Data Aggregates", **University of Nevada**, Las Vegas, April 2002
67. "Jet Virtual Medium", special prize of the Ministry of Research, **BINARY98**, October 1998
68. "Talking Objects", **ACM Summer School on Software Engineering**, May 1998

Invited Tutorials

1. R. Sion, "A Quick Intro to Trusted Hardware", invited tutorial at the IEEE Symposium on Security and Privacy **S&P 2009**, Berkeley, California, May 2009
2. R. Sion, "Trusted Hardware", invited tutorial at the ACM Conference on Computer and Communications Security **CCS 2008**, Alexandria, Virginia, October 2008
3. R. Sion, S. Smith, "Understanding and Deploying Trusted Hardware", invited tutorial at the **USENIX Security Symposium 2008**, San Jose, California, July 2008
4. R. Sion, M. Winslett, "Regulatory Compliance in Data Management", invited tutorial at the 33rd International Conference on Very Large Databases **VLDB 2007**, pages 1433-1434, Vienna, Austria, September 2007
5. R. Sion, "Secure Data Outsourcing", invited tutorial at the 33rd International Conference on Very Large Databases **VLDB 2007**, pages 1431-1432, Vienna, Austria, September 2007
6. R. Sion, M. Winslett, "Regulatory Compliance in Data Management", invited tutorial at the ACM Conference on Computer and Communications Security **CCS 2007**, Alexandria, Virginia, USA, October 2007
7. R. Sion, "Secure Data Outsourcing", invited tutorial at the 13th International Conference on Management of Data **COMAD 2006**, IIT Delhi, New Delhi, December 2006
8. R. Sion, "Database Watermarking", invited tutorial at the 11th International Conference on Database Systems for Advanced Applications **DASFAA 2006**, Singapore, April 2006

Awards

- National Science Foundation CAREER Award 2009-2014
- Stony Brook Nominee for the 2011 New York Academy of Sciences Blavatnik Award
- Stony Brook Computer Science Research Excellence Award 2010
- Xerox University Affairs Research Award 2008-2011
- Nominated for the 2004 ACM Dissertation Award by Purdue University
- Recipient of the 2004 CERIAS Diamond Award for Academic Excellence

Funding

1. "SATC: CORE: Small: Efficient Plausible Deniability Systems" (NSF SatC 2052951, \$499,728, 2021-2024)
2. "DEARM: Hardening ARM through de-bloating and TCB minimization" (Office of Naval Research, \$250,977, 2021-22)
3. "REARM: Protecting ARM Binaries via Load-time Reduction and Run-time Read-Protection" (Office of Naval Research, \$800k, own share: \$400k, collaboration with Long Lu, 2017-20)
4. "NSFSaTC-BSF: TWC: Small: Practical Plausibly Deniable Encryption through Low-Level Storage Device Behavior" (NSF CNS SatC 1526707, \$500k, own share: \$250k, collaboration with Don Porter and Dan Tsafir at Technion, 2015-19)
5. "CSR: Small: Collaborative Research: Sensorprint: Hardware-Enforced Information Authentication for Mobile Systems" (NSF CNS CSR 1526102, \$500k, own share: \$250k, collaboration with Bogdan Carbunar, FIU, 2015-19)
6. Microsoft Gift Grant for the Cloud Computing Security Workshop (\$5k, 2014)
7. "CSR: Small: Collaborative Research: Enabling Cost-effective Cloud HPC" (NSF CSR 1318564, \$460k, own share: \$150k, collaboration with Xiaosong Ma at NCSU, 2013-16)
8. "MCloud: Secure Provenance for Mobile Cloud Users" (US ARMY, \$450k, Co-PI with Bogdan Carbunar at FIU, 2013-2018)
9. Gift Grant for the NSAC Lab (Northrop Grumman Corporation, \$20k, 2012)
10. "NFS4Sec: An Extensible Security Layer for Network Storage" (NSF SaTC TTP 1223239, \$487k, own share: \$243k, Co-PI with Erez Zadok, 2012-2015)
11. "Cirrus: A Secure Cloud Computing Testbed" (D.O.D. DURIP, \$150k, sole PI, 2012-2014)
12. "CSR: Medium: CloudTracker: Transparent, Secure Provenance Tracking and Security Policy Enforcement in Clouds" (NSF CNS 1161541, \$870k, own share: \$435k, Co-PI with Don Porter, 2012-2016)
13. Microsoft Gift Grant for the Cloud Computing Security Workshop (\$5k, 2012)
14. Gift Grant for the NSAC Lab (Northrop Grumman Corporation, \$5k, 2011)
15. Microsoft Gift Grant for the Cloud Computing Security Workshop (\$5k, 2011)
16. "I/UCRC CGI: Center for Dynamic Data Analytics (CDDA)", (NSF IIP 1069147, Co-PI with 11 others, \$55k, 2011-14)
17. "Long Island Smart Energy Corridor" (DOE, subcontract from the Long Island Power Authority, approx. \$12.5m, Stony Brook share: \$1.7m, 2010 onwards, co-PI with 15+ others)
18. "Cloud Benchmarking" (CA Technologies, \$85k, 2010-2011)
19. "Cloud Computing Security" (Northrop Grumman Corporation, \$10k, 2010 onwards)
20. Microsoft Gift Grant for the Cloud Computing Security Workshop (\$5,000, 2010)
21. Gift Grant for the NSAC Lab (CA Technologies, \$124k, 2010)

22. *Gift Grant* for the NSAC Lab (Northrop Grumman Corporation, \$5k, 2010)
23. *NSF CAREER: Practical Privacy for Outsourcing Systems* (NSF, \$400k, 2009-14)
24. *Supplement for Cyber-Security Collaboration with TU Darmstadt* (NSF IIS, \$39k, 2009-12)
25. *NSF HEC: Secure Provenance in High End Computing Systems* (NSF CCF 0937833, \$1m, lead-PI for Stony Brook, own share: \$290k, collaboration with Marianne Winslett at UIUC and Patrick McDaniel at PSU, Erez Zadok at SBU, 2009-12)
26. *Microsoft Gift Grant* for the Cloud Computing Security Workshop (\$5,000, 2009)
27. *III-COR Medium: Collaborative Research: Achieving Compliant Databases* (NSF IIS 0803197, \$870k, lead PI for Stony Brook: \$250k, in collaboration with Marianne Winslett at UIUC and Rick Snodgrass at Arizona, 2008-12)
28. *Regulatory Compliant Document Management* (NYS Brooklyn Polytech CATT, \$10k, 2008)
29. *Regulatory Compliant Document Management* (Xerox research gift, \$60k, 2008-11)
30. *Acquisition of a Trusted Hardware Infrastructure for Secure Data Management* (NSF CRI CNS 0708025, sole PI, \$200k, 2007-10)
31. *SecureWORM: Strong Regulatory-Compliant Storage* (NSF Cyber Trust CNS 0716608, \$250/\$500k, lead PI for Stony Brook, collaboration with M. Winslett at UIUC, 2007-10)
32. *Center for Information Protection: A Multi-University Industry/University Collaborative Research Center* (NSF IIP 0733935, \$275k, Co-PI with R. Sekar, E. Zadok, S. Stoller, and T. Chiueh, 2007-10)
33. *NS3: Networked Secure Searchable Storage* (NSF CNS 0627554, \$300k, lead PI with E. Zadok, 2006-09, + vice president for research match of 150k)
34. *Personal DRM and Content Security in Mobile Frameworks* (Motorola Labs, \$35k, 2006)
35. *A Plan for Developing an Industry/University Collaborative Research Center on Cyber Security* (NSF IUCRC EEC 0532030, \$10k, Co-PI with R. Sekar, E. Zadok, S. Stoller, T. Chiueh, 2005-06)
36. *Secure Data Aggregation in Wireless Sensor Networks* (CEWIT Award, \$52k, Co-PI with J. Gao, 2006-07)
37. *Cyber-Security: Tools and Techniques for Fail-Safe Systems* (NYSTAR, \$202k, Co-PI with R. Sekar, T. Chiueh, S. Stoller, C.R. Ramakrishnan, and E. Zadok, 2005-06)

Research Community Service

Editorships

1. Associate Editor, IEEE Transactions on Cloud Computing (**IEEE TCC**) 2016-2018
2. Associate Editor, ACM Transactions on Information and System Security (**TISSEC**), 2010-2015
3. Editor, Proceedings on Privacy Enhancing Technologies (**PoPETs**) 2015, 2021

Chairships

4. ACM Cloud Computing Security Workshop (**CCSW**) at **CCS 2019-21**, SG Chair + PC Co-Chair
5. Modern Cryptography and Security Dagstuhl Seminar 2016, Co-Chair
6. Network and Distributed Systems Security Symposium **NDSS 2012**, Program Chair
7. Cloud Computing Security Workshop (**CCSW**) at **CCS 2011-14**, Steering Group Chair
8. Cloud Computing Security Workshop (**CCSW**) at **CCS 2010**, Steering and Program Co-Chair
9. **Financial Crypto 2010**, Program Chair
10. Cloud Computing Security Workshop (**CCSW**) at **CCS 2009**, Steering and Program Chair
11. **Financial Crypto 2008**, General Chair
12. **USENIX Security 2007**, Poster Chair

13. **Northeast DB/IR Day Fall 2007** at Stony Brook, Chair
14. **USENIX Security 2006**, Poster Chair
15. **SKM 2006** Secure Knowledge Management Workshop, Publicity Chair

Program Committee Memberships

16. **USENIX Security Symposium 2021**, PC Member
17. **ESORICS 2021** European Symposium on Research in Computer Security, Core PC Member
18. **ACM CCS 2020** Computer and Communications Security Conference, PC Member
19. Intl. World Wide Web Conference (**WWW**) **2016**, PC Member
20. Very Large Databases Conference (**VLDB/PVLDB**) **2016**, PC Member/Editor
21. Privacy Enhancing Technologies Symposium (**PETS**) **2015**, PC Member
22. Privacy Enhancing Technologies Symposium (**PETS**) **2014**, PC Member
23. European Symposium on Research in Computer Security (**ESORICS**) **2014**, PC Member
24. IEEE Security and Privacy Symposium (**Oakland**) **2014**, PC Member
25. IEEE/ACM Symposium on Cluster, Cloud and Grid Computing (**CCgrid**) **2014**, PC Member
26. Very Large Databases Conference (**VLDB/PVLDB**) **2014**, PC Member/Editor
27. **ACM CCS 2013** Computer and Communications Security Conference, PC Member
28. European Symposium on Research in Computer Security (**ESORICS**) **2013**, PC Member
29. IEEE Security and Privacy Symposium (**Oakland**) **2013**, PC Member
30. **ACNS 2013** Intl. Conf. on Applied Cryptography and Network Security, PC Member
31. **IEEE ICDCS 2013** Intl. Conf. on Distributed Computing Systems, PC Member
32. Network and Distributed System Security Symposium **NDSS 2013**, PC Member
33. ACM Conference on Information and Knowledge Management **CIKM 2013**, PC Member
34. Very Large Databases Conference (**VLDB/PVLDB**) **2013**, PC Member/Editor
35. Privacy Enhancing Technologies Symposium (**PETS**) **2013**, PC Member
36. ACM Cloud Computing Security Workshop (**CCSW**) at **CCS 2012**, PC Member
37. **ACM CCS 2012** Computer and Communications Security Conference, PC Member
38. **ACNS 2012** Intl. Conf. on Applied Cryptography and Network Security, PC Member
39. **ACM SIGMOD 2012**, Intl. Conf. of the SIG on Management of Data, PC Member
40. IEEE Security and Privacy Symposium (**Oakland**) **2012**, PC Member
41. Intl. Conf. on Trends in Theory and Practice of CS (**SOFSEM**) 2012 (Security), PC Member
42. Intl. World Wide Web Conference (**WWW**) **2011**, PC Member
43. **ACM SIGMOD 2011**, Intl. Conf. of the SIG on Management of Data, PC Member
44. IEEE Security and Privacy Symposium (**Oakland**) **2011**, PC Member
45. Network and Distributed System Security Symposium **NDSS 2011**, PC Member
46. IEEE Security and Privacy Symposium (**Oakland**) **2010**, PC Member
47. **IEEE ICDE 2010** Intl. Conf. on Data Engineering, PC Member
48. **IEEE ICDCS 2010** Intl. Conf. on Distributed Computing Systems, PC Member
49. Network and Distributed System Security Symposium **NDSS 2010**, PC Member
50. **ACNS 2010** Intl. Conf. on Applied Cryptography and Network Security, PC Member
51. USENIX Workshop on Green/Sustainable IT **Cool-IT 2010**, PC Member
52. International Conference on Trusted Computing **TRUST 2010**, PC Member
53. **ISC 2010** Information Security Conference, PC Member
54. **STC 2010** Workshop on Scalable Trusted Computing, PC Member

55. **ACM CCS 2009** Computer and Communications Security Conference, PC Member
56. **IEEE Security and Privacy Symposium 2009**, PC Member
57. **ACM SIGMOD 2009**, Intl. Conf. of the SIG on Management of Data, PC Member
58. **Financial Crypto 2009**, PC Member, Session Chair
59. **ACM WPES 2009** Workshop at CCS, PC Member
60. **ACM CCS 2008** Computer and Communications Security Conference, PC Member
61. **ACM SIGMOD 2008**, Intl. Conf. of the SIG on Management of Data, PC Member
62. **ICISS 2008**, Intl. Conf. on Information Systems Security, PC Member
63. **ACM DRM 2008** Workshop at CCS, PC Member
64. **ACM WPES 2008** Workshop at CCS, PC Member
65. **EDBT 2008 PhD Workshop**, PC Member
66. **ACM CCS 2007** Computer and Communications Security Conference, PC Member
67. **IEEE ICDE 2007** Intl. Conf. on Data Engineering (Security), PC Member
68. **IEEE ICDCS 2007** Intl. Conf. on Distributed Computing Systems (Security), PC Member
69. **WISA 2007** Workshop on Information Security Applications, PC Member
70. **Financial Crypto 2007**, PC Member, Session Chair
71. **ACM StorageSS** Storage Security and Survivability Workshop **2006** (at CCS), PC Member
72. **WISA 2006** Workshop on Information Security Applications, PC Member
73. **NPsec 2006** Workshop on Secure Network Protocols, PC Member
74. **WIDM 2006** Workshop on Web Information and Data Management at CIKM, PC Member

Miscellaneous

75. IEEE Cybersecurity Awards Committee 2017
76. DHS: reviewer for the DHS Center for Homeland Security Quantitative Analysis 2016
77. NSF: multiple panels on Secure and Trustworthy Cyberspace **SaTC 2015**
78. **Invitational:** “US ARMY Workshop on Emerging Cyber Techniques and Technologies”, 11/15
79. **Invitational:** “NSF Technology Transfer to Practice (TTP): Cyber Security Transition to Practice Workshop: Creating a TTP Roadmap for Principal Investigators”, Arlington, 11/15
80. **Invitational:** “Encryption for Search and other Algorithms Workshop”, Bertinoro, June 2015
81. **Invitational:** ARO Workshop on Cloud Security, Fairfax, Virginia, March 2013
82. **Invitational:** “Privacy Oriented Cryptography” Dagstuhl Seminar, September 2012
83. **Invitational:** “Security and Dependability for Federated Cloud Platforms” Dagstuhl, 7/12
84. **Invitational:** Cyber Security Research Institute Workshop, Lockheed Martin, DC, April 2012
85. NSF: multiple panels on Secure and Trustworthy Cyberspace **SaTC 2012**
86. **Invitational:** “NSF Vision Workshop on Security for Cloud Computing”, March 2012
87. **Invitational:** “Secure Cloud Computing” Dagstuhl Seminar, December 2011
88. **Invitational:** “Privacy and Security in Smart Energy Grids” Dagstuhl Seminar, December 2011
89. **Invitational:** “Secure Architectures in the Cloud” Dagstuhl Seminar, December 2011
90. **Invitational:** “Information Management in the Cloud”, Dagstuhl Seminar, August 2011
91. Reviewer for the Florida State Institute for the Commercialization of Public Research 2010
92. NSF: multiple panels on **Trustworthy Computing 2009**
93. **Invitational:** 2009 NSF/EC Intl. Workshop on Co-operation in Trustworthy Systems: Security, Privacy and Trust in Large-Scale Global Networks & Services as Part of the Future Internet.
94. Network and Distributed System Security Symposium (**NDSS**) Steering Group 2009-12

95. NSF: panel in the **CyberTrust 2008** program
96. Reviewer for the **Estonian Science Foundation (ETF)**, 2008-11
97. Reviewer for the **Office of the Senior Science Advisor to the US Department of State** for the Moscow International ISTC and the Ukraine Science and Technology Centers 2007
98. **Invitational Workshop**: DOE Cyber Security Research Needs for Open Science 2007
99. NSF: multiple panels on **Cyber Trust** and **Information and Intelligent Systems 2007**
100. Reviewer for the Netherlands Council of Physical Sciences, Organization for Scientific Research (NWO) 2005

University Service

1. *Director*, National Security Institute (2014 onwards)
2. CEWIT - New York Academy of Sciences Smart Cities Liaison Expert (2012 onwards)
3. Mentoring 4+ faculty (Nick Nikiforakis, Michalis Polychronakis, Omkant Pandey, Nima Honarmand, Long Lu)
4. *Chair* of Stony Brook Computer Science **PR and Outreach Committee** (2010 onwards)
5. *Co-Chair* of Stony Brook Computer Science **Hiring Committee** (2010-12)
6. Stony Brook Computer Science **Web Committee** (2010)
7. Stony Brook Computer Science **Discretionary Increase Committee** (2010-11)
8. *Director* of CEWIT Cloud Computing Center (2009 onwards)
9. *Chair* of Stony Brook Computer Science **CAREER Committee** (2006 onwards)
10. *Director* of NSAC Lab, Trusted Hardware Lab
11. *Organizer* of yearly CS **Career Day**, Career Web Portal (2006-07)
12. Stony Brook Computer Science **Honors Committee** (2006-07)
13. Stony Brook Computer Science **Graduate Admission Committee** (2005-10)
14. Participated on the Stony Brook Graduate School Student Asia Interviewing Team (2008)
15. Stony Brook Computer Science **Graduate Evaluation Committee** (2006)
16. Stony Brook Computer Science **Qualifying Examinations Committee** (2005,2007)
17. **Research Proficiency Examination Committee (RPE)**: Amit Sastukar (2005), Joy Dutta (2005), Gopalan Sivathanu (2005), Sol Lederer (2006, chair), Rick Spillane (2008), Mingwei Zhang (2011), Cheng-Chun Tu (2011), Bhushan Jain (2012), Chia-Che Tsai (2013), Bhushan Jain (2013), Tung Tran (2013), Tzu-Wen Lee (2014)
18. *Supervised under-represented minority undergraduates* in the **SUNY Alliance for Graduate Education and the Professorate (AGEP)** 2005 Summer Research Institute (SRI)
19. **Master Thesis Committee**: V. Katta (chair,2006), Siddharth Bhatt (2007), Ashish Anand (2009), Santosh Sonawane (2009)
20. **Dissertation and Prelim Examination Committee**: Katia Hristova (2007), Weiqin Sun (2007), Hui Kang (2012), Xiang Cai (2013, 2014), Luca Allodi - University of Trento (2015)

Additional External Peer-Review Service

ACSAC (Annual Computer Security Applications Conference), **IEEE TDSC** (Transactions on Dependable and Secure Computing), Cluster SEC, **ACM TISSEC** (Transactions on Information and Systems Security), **ACM SACMAT** (Symposium on Access Control Models and Technologies), **IEEE S&P** (IEEE Security and Privacy), **VLDB Journal** (Very Large Databases Endowment), **ACM TODS** (Transactions on Database Systems), **TKDE** (Transactions on Knowledge and Data Engineering),

EuroPAR (International Conference on Parallel and Distributed Computing), **ACM SAC** (ACM Symposium on Applied Computing), **HiPC** (High Performance Computing), **IEEE IPSJ** (IEEE Symposium on Applications and the Internet), **IS** (Journal of Information Sciences), **SE&P** (Software Engineering and Practice), **IEEE SP** (Transactions on Signal Processing), **JDL** (Journal of Digital Libraries), **DAPD** (Journal on Distributed and Parallel Databases), **MMSJ** (Multimedia Systems Journal), **JIS** (EURASIP Journal on Information Security), **IS** (Elsevier Journal on Information Systems), **IEEE TC** (Transactions on Computers), **ACM TWEB** (Transactions on the Web), **JOMS** (Journal of Medical Systems), **ACM CSUR** (Computing Surveys), **IEEE/ACM TON** (Transactions on Networking), **TDP** (Transactions on Data Privacy), **IEEE TPDS** (Transactions on Parallel and Distributed Systems), **JCNC** (Journal of Computer Networks and Communications), **CACM** (Communications of the ACM), **IEEE ISPASS** (International Symposium on Performance Analysis of Systems and Software)

Students

▪ Current Students

- Sandeep Pinjala (PhD, expected graduation: 2026)
- Soroush Meghdadizanjani (PhD, expected graduation: 2027)

▪ Graduated Students

- Darius-Andrei Suciu (PhD, graduation: 2022, first job: Private Machines Inc.)
- Anrin Chakraborti (PhD, graduation: 2020, first job: postdoc at Duke)
- Chen Chen (PhD, graduation: 2020, first job: Facebook)
- Abhishek Joshi (MS)
- Nittin Aggarwal (MS)
- Sachin Arunkumar (MS)
- Swaminathan Gurumurthy (MS)
- Venkata Jyothsna Donapati (MS, Fall 2016 - Fall 2017)
- Vishwajit Bhat (MS, Fall 2016 - Fall 2017)
- Raunaq Kochar (MS, Fall 2016 - Fall 2017)
- Krishnan Venkitakrishnan (MS: Spring 2016 - Fall 2016)
- Bhavana Raj Kanthur Murnad (MS, Spring 2016 - Fall 2016)
- Priyam Sirohi (MS, expected graduation: December 2016)
- Akilesh Gadde (MS, Fall 2014 - Fall 2015, Juniper Networks)
- Ashish Chaudhary (MS, Fall 2014 - Fall 2015, Security Researcher, Citrix)
- Vinay Ganeshmal Jain (MS, Fall 2014 - Fall 2015, VMware)
- Vamsi Krishna Atluri (MS, Fall 2014 - Spring 2015, Cisco)
- Khan "Sadh" N. Mostafa (MS, Spring 2014 - Fall 2014, Teledata Communications)
- Vasudev Bhat (MS, Spring 2014 - Fall 2014, Arista Networks)
- Ravikiran Patil (MS, Spring 2014 - Fall 2014, EdgeCast Networks)
- Dongli Zhang (PhD/MS, 2014 – 2015, Oracle)
- Sumeet Bajaj (PhD, 2009-2014, Citi, SAP Research, Private Machines Inc)
- Abhishek Kumar (MS, Fall 2012-Fall 2013, VMware)
- Karthiek Chandrasekaran (MS, Fall 2012-Fall 2013, LinkedIn)
- Connor Fitzsimons (MS, Fall 2011- Spring 2013, Microsoft)
- Gaurav Menghani (MS, Fall 2011-Fall 2012, Facebook)

- Suryanarayanan Balasubramanian (MS, Fall 2011-Fall 2012, VMware)
- Yao Chen (PhD/MS, Fall 2007 - Fall 2012, first job: Google)
- Peter Williams (PhD, Fall 2006 - Spring 2012, first job: MIT Lincoln Labs)
- Alin Tomescu (BS, Summer 2011 - Summer 2012, Private Machines)
- Sarath Kumar (MS, Fall 2010 - Fall 2011, Riverbed Technologies)
- Aniruddha Laud (MS, Fall 2010-Fall 2011, Facebook)
- Jing Jin (MS, Fall 2010-Fall 2011, Yahoo!)
- Bo He (BS, Summer 2010-Fall 2011, IBM)
- Nilesh Mahajan (MS, Spring-Fall 2010, Ebay)
- Shripad Nadgowda (MS, Spring-Fall 2010, EMC)
- S. Dash (MS, Spring-Fall 2010, Microsoft)
- Sumit Sanghrajka (MS, Spring-Fall 2010, LinkedIn)
- Ragib Hasan (UIUC PhD, graduated in September 2009, co-advised with Marianne Winslett at UIUC, first job: postdoc at Johns Hopkins)
- Minnu Tom (MS, Spring-Fall 2009, Microsoft)
- Rimmi Devgan (MS, Spring-Fall 2009, Microsoft)
- Ajay Venkateshan (MS, Spring-Fall 2009, Qualcomm)
- Pranavarun Jadhav (MS, Spring-Fall 2009)
- Smitha Thomas (MS, Spring-Fall 2008, NYC Bloomberg)
- Ashish Anand (PhD, graduated with MS, Fall 2007 – Spring 2009)
- Siddharth Bhatt (MS, Fall 2006 – Fall 2007)
- S. Bajaj (MS, Fall 2005 – Fall 2006, Citigroup, SAP Research)
- Berook Alemayehu (minority undergrad from UMBC, lab intern in 2005)
- Peter Spano (undergraduate, graduated in Fall 2007)

▪ **Other students I worked with**

- Dibyendu Das (PhD, 2019)
- Moussa Ehsan (PhD, 2011-2015)
- Uns Rehman (PhD, 2018-2019)
- Bo Chen (postdoctoral researcher, Fall 2014 – Spring 2015)
- Seyyed Ahmad Javadi (PhD, Fall 2014 - Spring 2015)
- Sumit Bindal (MS, Fall 2014)
- Navin Agarwal (MS, Fall 2014)
- Mirza Basim Baig (PhD, Fall 2013 - Spring 2014)
- Yang Zhan (PhD, Spring 2013)
- Bhushan Jain (PhD, Fall 2011 - Spring 2012)
- Rishab Nithyanand (PhD, Fall 2010 - Fall 2011)
- Md Borhan Uddin (PhD, Spring-Fall 2010)
- Miroslava Sotakova (postdoc, Fall 2009 – Spring 2010, Goldman Sachs)
- Rajarshi Agnihotri (Fall 2008 – Fall 2009)
- Feng Song (Fall 2008)
- Isaac Chanin (Summer 2008)
- Simona Boboila (Fall 2006 – Summer 2007)
- George Iordache (Fall 2006 – Summer 2007)

Teaching (at Stony Brook, initial enrollment shown)

1. **CSE508** (Graduate Network Security): F08 (43), F07 (43), F06 (60), F05 (48-55)
2. **CSE509** (Graduate System Security): F12 (55), S05 (33-35)
3. **CSE408** (Network Security): F12 (22), F08 (15), F07 (19)
4. **CSE409** (System Security): F12 (27), S10 (12), S08 (12), S07 (20), S06 (12), S05 (11)
5. **CSE690** (Advanced Data Security): F09 (45, co-listed at UIUC)
6. **CSE690** (Secure Data Management): S08 (25, co-listed at UIUC)
7. **CSE590** (Storage Security, *with E. Zadok*): S07 (15-20)
8. **CSE594** (Cloud Computing): S10 (44)
9. **CSE659** (Security Seminar): F06 (5, 30 on mailing list)
10. **CSE659** (Wireless Security Seminar): S06 (8, 26+ on mailing list)
11. **CSE684** (Special Topics: Foundations of Cryptography): F05 (5-9)
12. **CSE661** (Data Privacy Seminar): S05 (4-12)
13. **CSE392/ISE331/CSE331** (Fundamentals of Comp. Security): S15 (30), F21 (73), F22 (29)

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