

# Annie I. Antón, Ph.D.

North Carolina State University  
College of Engineering  
Department of Computer Science  
890 Oval Drive  
Raleigh, NC 27695-8206

1+ 919.319.8536

aianton@ncsu.edu

<http://www.csc.ncsu.edu/faculty/anton>

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*Last Updated: 7/21/2009*

## Education

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### GEORGIA INSTITUTE OF TECHNOLOGY

*Ph.D. in Computer Science*

*June 1997*

*Minor in Management / Public Policy*

Major Field of Study: Software Engineering

Thesis Title: "Goal Identification and Refinement in the Specification of Software-Based Information Systems"

Thesis Advisors: Peter A. Freeman and Colin Potts

*Master of Science in Information and Computer Science*

*June 1992*

*Bachelor of Science in Information and Computer Science*

*June 1990*

*Minor in Technical and Business Communications*

## Experience

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### NORTH CAROLINA STATE UNIVERSITY

**College of Engineering**

2008 -

Professor of Computer Science with Tenure

Raleigh, NC

2003 -2008

Associate Professor of Computer Science with Tenure

1998-2003

ABB Assistant Professor of Software Engineering

### PURDUE UNIVERSITY

**Center for Education & Research in Info. Assurance & Security**

2005-2006

Visiting Scholar (1-Year Faculty Sabbatical)

West Lafayette, IN

### UNIVERSITY OF SOUTH FLORIDA

**College of Business Administration**

1997-1998

Assistant Professor

Tampa, Florida

### ATLANTA COMMITTEE FOR THE OLYMPIC GAMES

1994-1996

Olympic Envoy to Equatorial Guinea

Atlanta, Georgia

### GEORGIA INSTITUTE OF TECHNOLOGY

**College of Computing**

1993-1997

Graduate Research Assistant

Atlanta, Georgia

### SCHLUMBERGER LABORATORY FOR COMPUTER SCIENCE

1992

Research Assistant

Austin, Texas

### GEORGIA INSTITUTE OF TECHNOLOGY

**College of Computing**

1992

Graduate Research Assistant

Atlanta, Georgia

1991

Information System Project Manager

### USERVIEW CORPORATION

1990

Project Manager

Atlanta, Georgia

## Awards & Honors

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- Best All Around Trekker, Trekking For Kids Spain/Morocco Lite Trek (2009)
- North Carolina State University Libraries Fabulous Faculty Series Speaker (2009)
- Keynote Speaker: Summit on the National Academy of Engineering Grand Challenges (2009)
- 1994 *IEEE Software* paper with co-authors Colin Potts and Kenji Takahashi was ranked the #10 most highly cited *IEEE Software* paper in its 25th Anniversary issue (January 2009)
- Distinguished Alumni Award, St. Pius X Catholic High School, Atlanta, GA (2007)
- 13th Annual U.S. Frontiers of Engineering Symposium by the National Academy of Engineering -- Co-Chair for Security Session (2007)
- Appointed by Secretary Michael Chertoff to US Department of Homeland Security Data Privacy and Integrity Advisory Committee (2006)
- 12th Annual U.S. Frontiers of Engineering Symposium by the National Academy of Engineering -- One of 81 young engineers nominated and selected to participate (2006)
- Most Influential Paper of ICRE 1996 at RE 2006 for paper entitled "Goal-Based Requirements Analysis" (2006)
- CSO (Chief Security Officer) Magazine's Woman of Influence in the Public Sector Award (2005)
- Honorary Paratrooper, 82nd Airborne, Ft. Bragg, NC (2005)
- Selected as Member of 9th IDA/DARPA Defense Science Study Group (2004-2005)
- IEEE Senior Member (2003)
- NC State College of Engineering First Featured "Achiever" (2003)
- NC State College of Engineering Pride of the Wolfpack Award (2003)
- Computing Research Association Digital Government Fellow (2002)
- National Science Foundation CAREER Award (2000-2004)
- The ANAK Society, highest student honor at Georgia Tech (1995)
- Omicron Delta Kappa National Leadership Honor Society (1994-present)
- Outstanding Georgia Tech College of Computing Graduate (June 1997)
- Bellcore Scholarship (1997)
- Georgia Tech President's Graduate Research Fellowship (1992-1996)
- GTE Fellowship (1993-94)
- 1994 Washington Center Women As Leaders Seminar  
Selected to represent the State of Georgia in two week leadership program in Washington D.C.
- Georgia Tech Alumni Association Leadership Award for International Study (1994)
- SWE Outstanding CS Graduate Student Award Recipient (1993)
- Georgia Tech Alumni Association Graduate Student Leadership Award (1992)

## Publications

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### Book Chapters

Aaron K. Massey and Annie I. Antón. "Behavioral Advertising Ethics," *To Appear in Information Assurance and Security Ethics in Complex Systems: Interdisciplinary Perspectives*, Melissa Dark, ed., 2010.

Paul N. Otto and Annie I. Antón. "Managing Legal Texts in Requirements Engineering," *To Appear in Design Requirements—New Perspectives*, Kalle Lyytinen, Pericles Loucopoulos, John Mylopoulos, and Bill Robinson eds., 2009.

Eugene H. Spafford and Annie I. Antón. "The Balance of Privacy and Security," *Science and Technology in Society: From Biotechnology to the Internet, Vol II*, ed. by Daniel Lee Kleinman, Karen A. Cloud-Hansen, Christina Matta, and Jo Handelsman, pub. MaryAnn Liebert, Inc, NYC, NY, pp. 152-16, 2008.

Annie I. Antón and Julia B. Earp. "Strategies for Developing Policies and Requirements for Secure Electronic Commerce Systems," in *E-Commerce Security and Privacy*, edited by Anup K. Ghosh, Kluwer-Academic Publishers, pp. 29-46, 2001.

### Refereed Journal Publications

Aaron K. Massey, Paul N. Otto, Lauren J. Hayward, and Annie I. Antón. "Evaluating EHR Requirements for HIPAA Compliance: A Case Study," *Under 2nd Review for Requirements Engineering Journal*, Springer-Verlag, 2009.

Travis .D. Breaux, Annie I. Antón and Eugene H. Spafford. "A Distributed Requirements Management Framework for Compliance and Accountability," *To Appear in Computers & Security, Elsevier*, 2009.

Qingfeng He and Annie I. Antón. "Requirements-based Access Control Analysis and Policy Specification (ReCAPS)," *To Appear in Information & Software Technology*, 2009.

**Refereed Journal Publications****(Continued)**

Travis .D. Breaux, Annie I. Antón and Jon Doyle. "Semantic Parameterization: A Process for Modeling Domain Descriptions," *To Appear* in *ACM Transactions on Software Engineering and Methodology*, 2009.

Matthew W. Vail, Julia B. Earp and Annie I. Antón. "An Empirical Study of Consumer Perceptions and Comprehension of Web Site Privacy Policies," *IEEE Transactions on Engineering Management*, 55(3), pp. 442 - 454, August 2008.

Thomas A. Alspaugh and Annie I. Antón. "Scenario Support for Effective Requirements," *Information and Software Technology*, Elsevier, 50(3), pp. 198-220, February 2008.

Travis .D. Breaux and Annie I. Antón. "Analyzing Regulatory Rules for Privacy and Security Requirements," *IEEE Transactions on Software Engineering*, 34(1), pp. 5-20, January 2008.

Paul N. Otto, Annie I. Antón and David L. Baumer. "The ChoicePoint Dilemma: How Data Brokers Should Handle the Privacy of Personal Information," *IEEE Privacy & Security*, 5(5), pp. 15-23, September-October 2007.

Annie I. Antón, Elisa Bertino, Ninghui Li and Ting Yu. "A Roadmap for Comprehensive Online Privacy Policy Management," *Communications of the ACM*, 50(7), pp. 109-116, 2007.

Annie I. Antón, Julia B. Earp, Matthew W. Vail, Neha Jain, Carrie Gheen and Jack M. Frink. "HIPAA's Effect on Web Site Privacy Policies," *IEEE Security & Privacy*, 5(1), pp. 45-52, January/February 2007.

Ninghui Li, Ting Yu and Annie I. Antón. "A Semantics-based Approach to Privacy Languages," *International Journal of Computer Systems Science & Engineering*, 21(5), pp. 339-352, September 2006.

Julia B. Earp, Annie I. Antón, Lynda Aiman-Smith, and William Stufflebeam. "Crossed Signals: Internet Privacy Policies and User Concerns," *IEEE Transactions on Engineering Management*, 52(2), pp. 227-237, May 2005.  
Annie I. Antón, Qingfeng He and David Baumer. "The Complexity Underlying JetBlue's Privacy Policy Violations," *IEEE Security & Privacy*, 2 (6), pp. 12-18, 2004.

Annie I. Antón and Julia B. Earp. "A Requirements Taxonomy to Reduce Website Privacy Vulnerabilities," *Requirements Engineering Journal*, Springer-Verlag, 9(3), pp. 169-185, August 2004.

Annie I. Antón, Julia B. Earp, Davide Bolchini, Qingfeng He, Carlos Jensen and William Stufflebeam. "The Lack of Clarity in Financial Privacy Policies and the Need for Standardization," *IEEE Security & Privacy*, 2(2), pp. 36-45, March-April 2004.

Annie I. Antón, Julia B. Earp and Ryan A. Carter. "Precluding Incongruous Behavior by Aligning Software Requirements with Security and Privacy Policies," *Information and Software Technology*, Elsevier, 45(14), pp. 967-977, 1 November 2003.

Annie I. Antón and Colin Potts. "Functional Paleontology: The Evolution of User-Visible System Services," *IEEE Transactions on Software Engineering*, 29(2), pp. 151-166, February 2003.

Annie I. Antón, Ryan A. Carter, Aldo Dagnino, John H. Dempster and Devon F. Siege. "Deriving Goals from a Use Case Based Requirements Specification," *Requirements Engineering Journal*, Springer-Verlag, 6(1), pp. 63-73, May 2001.

Annie I. Antón and Colin Potts. "A Representational Framework for Scenarios of System Use," *Requirements Engineering Journal*, Springer-Verlag, 3(3&4), pp. 219-241, December 1998.

Colin Potts, Kenji Takahashi and Annie I. Antón. "Inquiry-Based Requirements Analysis," *IEEE Software* 11(2), pp. 21-32, March 1994.

**Other Journal Publications**

Paco Hope, Annie I. Antón and Gary McGraw. "Misuse and Abuse Cases: Getting Past the Positive." for "Building Security In" column: *IEEE Security & Privacy*, 2(3) pp. 90-92, May/June 2004.

Annie I. Antón. "Successful Software Projects Need Requirements Planning," *IEEE Software*, 20(3), pp. 44-47, May/June 2003.

Annie I. Antón. "Guest Editorial: Requirements Engineering for Information Security," *Requirements Engineering Journal*, Springer-Verlag, 7(4), pp. 177-178, December 2002.

**Refereed Conference****Proceedings**

Jeremy Maxwell and Annie I. Antón. "Developing Production Rule Models to Aid in Acquiring Requirements from Legal Texts," *To Appear in 17th IEEE International Requirements Engineering Conference (RE'09)*, Atlanta, GA, 31 August - 4 September 2009.

Travis D. Breaux, Jonathan D. Lewis, Paul N. Otto, and Annie I. Antón. "Identifying Vulnerabilities and Critical Requirements Using Criminal Court Proceedings," *24th Annual ACM Symposium on Applied Computing*, Honolulu, Hawaii, 9-12 March 2009.

Acceptance rate: 25%

Nadzeia Kiyavitskaya, Nicola Zeni, Travis D. Breaux, Annie I. Antón, James R. Cordy, Luisa Mich, John Mylopoulos. "Automating the Extraction of Rights and Obligations for Regulatory Compliance," *27th International Conference on Conceptual Modelling (ER'08)*, Barcelona Spain, pp. 154-168, 20-23 October 2008.

Acceptance rate: 25%

T.D. Breaux, A.I. Antón, K. Boucher and M. Dorfman. "Legal Requirements, Compliance and Practice: An Industry Case Study in Accessibility," *16th IEEE International Requirements Engineering Conference*, Barcelona, Spain, pp. 43-52, 10-12 September 2008.

Acceptance rate: 11%

N. Kiyavitskaya, N. Zeni, T.D. Breaux, A.I. Antón, J.R. Cordy, L. Mich and J. Mylopoulos. "Extracting Rights and Obligations from Regulations: Toward a Tool-Supported Process," *Twenty-Second IEEE/ACM International Conference on Automated Software Engineering (ASE'07)*, Atlanta, Georgia, USA, pp. 429-432, 5-9 November 2007.

Paul N. Otto and Annie I. Antón. "Addressing Legal Requirements in Requirements Engineering," *15th IEEE International Requirements Engineering Conference*, Delhi, India, pp. 5-14, 15-19 October 2007.

Acceptance rate: 25%

Drignt Ho, Laurie Williams and A.I. Antón. "Improving Performance Requirements Specifications from Field Failure Reports: A Commercial Distributed Software System Case Study," *15th IEEE International Requirements Engineering Conference*, Delhi, India, pp. 79- 88, 15-19 October 2007.

Acceptance rate: 12%

Matthew W. Vail, Julia B. Earp and Annie I. Antón. "Privacy Policy Representation in Web-based Healthcare," *40th Annual Hawaii International Conference on System Sciences (HICSS 2007)*, Waikoloa, HI, pp. 1-9, January 2007.

Travis D. Breaux, Matthew Vail and Annie I. Antón. "Towards Regulatory Compliance: Extracting Rights and Obligations to Align Requirements with Regulations," Accepted to: *14th IEEE International Requirements Engineering Conference (RE'06)*, Minneapolis / St. Paul, Minnesota, pp. 46-35, 11-15 September 2006.

Acceptance rate: 14%

T.D. Breaux and A.I. Antón. "Analyzing Goal Semantics for Rights, Permissions, and Obligations." *13th IEEE International Requirements Engineering Conference (RE'05)*, Paris, France, pp. 177-186, 29 August - 2 September 2005.

Acceptance rate: 20%

Aldo Dagnino, Karen Smiley, Hema Srikanth, Annie I. Antón and Laurie Williams. "Experiences in Applying Agile Software Development Practices in New Product Development," *8th IASTED International Conference on Software Engineering and Applications (SEA 2004)*, Cambridge, MA, pp. 501-506, 9-11 November 2004.

Davide Bolchini, Qingfeng He, Annie I. Antón and William Stufflebeam. "I need it now: Improving Website Usability By Contextualizing Privacy Policies," *4th International Conference on Web Engineering (ICWE 2004)*, Munich, Germany, 28-30 July 2004.

Acceptance rate: 13%

Julia B. Earp and Annie I. Antón. "Addressing End-User Privacy Concerns," *2004 Americas Conference on Information Systems (AMCIS 2004)*, 6-8 August 2004.

Laurie Williams, Anuja Shukla and Annie I. Antón. "An Initial Exploration of the Relationship Between Pair Programming and Brooks Law," *2004 Agile Development Conference*, pp. 11-20, 22-26 June 2004.

Acceptance rate: 31%

Laurie Williams, Lucas Layman, William Krebs and Annie I. Antón. "Toward a Framework for Evaluating Extreme Programming," *8th Conference on Evaluation & Assessment in Software Engineering*

**Refereed Conference**

**Proceedings  
(Continued)**

Julia B. Earp, Annie I. Antón, Lynda Aiman-Smith and William Stufflebeam. "Crossed Signals: Internet Privacy Policies and User Concerns," *Academy of Management*, Seattle, Washington, 1-6 August 2003. **(Best Visual Presentation Award)**

Acceptance rate: 12%

V. Cavalli-Sforza, A. I. Antón, O. Brooks, J. Carbonell, R. Cole, R. Connolly, J. Fortes, M. Herrera, I. Krsul, C. McSweeney, C. Ortega, S. Su, D. Towsley, J. Ventura and W. Ward. "Enabling Transnational Collection, Notification, and Sharing of Information," *The 2003 National Conference on Digital Government Research*, Boston, Massachusetts, 18-21 May 2003.

Olli Jarvinen, Julia B. Earp and Annie I. Antón. "A Visibility Framework for Privacy Management Requirements," *2nd Symposium on Requirements Engineering for Information Security (SREIS 2002)*, Raleigh, NC, 15-16 October 2002.

Julia B. Earp, Annie I. Antón and Olli Jarvinen. "A Social, Technical and Legal Framework for Privacy Management and Policies," *Eighth Americas Conference on Information Systems (AMCIS 2002)*, Dallas, Texas, pp. 605-612, 9-11 August 2002.

Annie I. Antón, Julia B. Earp and Angela Reese. "Analyzing Web Site Privacy Requirements Using a Privacy Goal Taxonomy," *10th Anniversary IEEE Joint Requirements Engineering Conference (RE'02)*, Essen, Germany, pp. 23-31, 9-13 September 2002.

Acceptance rate: 19%

Ryan A. Carter, Annie I. Antón, Aldo Dagnino and Laurie Williams. "Evolving Beyond Requirements Creep: A Risk-Based Evolutionary Prototyping Model", *IEEE 5th International Symposium on Requirements Engineering*, Toronto, Canada, pp. 94-101, 27-31 August 2001. **(Best Paper Award)**

Acceptance rate: 20%

Annie I. Antón, Julia B. Earp, Colin Potts and Thomas A. Alspaugh. "The Role of Policy and Privacy Values in Requirements Engineering", *IEEE 5th International Symposium on Requirements Engineering*, Toronto, Canada, pp. 138-145, 27-31 August 2001. **(Best Paper Award)**

Acceptance rate: 20%

Annie I. Antón and Colin Potts. "Functional Palaeontology: System Evolution as the User Sees It," *IEEE International Conference on Software Engineering (ICSE 2001)*, Toronto, Canada, pp. 421-430, 12-19 May 2001. **(Best Paper Award)**

Acceptance rate: 18%

Thomas A. Alspaugh, Annie I. Antón, Tiffany Barnes and Bradford Mott. "An Integrated Scenario Management Strategy," *4th IEEE International Symposium on Requirements Engineering*, University of Limerick, Ireland, pp. 142-149, 7-11 June 1999.

Acceptance rate: 24%

Annie I. Antón and Colin Potts. "The Use of Goals to Surface Requirements for Evolving Systems," in *International Conference on Software Engineering*, Kyoto, Japan, pp. 157-166, 19-25 April 1998.

Acceptance rate: 20%

Annie I. Antón. "Goal-Based Requirements Analysis," *IEEE International Conference on Requirements Engineering*, Colorado Springs, Colorado, pp. 136-144, 15-18 April 1996.

**(Most Influential Paper of ICRE 1996 Award at RE 2006)**

Acceptance rate: 30%

Annie I. Antón, W. Michael McCracken and Colin Potts. "Goal Decomposition and Scenario Analysis in Business Process Reengineering," *The 6th Conference on Advanced Information System Engineering*, Utrecht, The Netherlands, pp. 94-104, 6-10 June 1994.

Annie I. Antón, Thomas A. Gale, W. Michael McCracken and John J. Shilling. "Object Based Requirements Modeling for Process Continuity," *Proceedings of the Hawaii International Conference on System Sciences*, Vol. 3, pp. 191-202, 1993.

## Refereed Workshop

### Proceedings

Jeremy Maxwell and Annie I. Antón. “Validating Existing Requirements for Compliance with Law Using a Production Rule Model,” *To Appear in Second International Workshop on Requirements Engineering and Law*, In conjunction with the *17th IEEE International Requirements Engineering Conference*, Atlanta, GA, 1 Sept. 2009.

Aaron K. Massey, Paul Otto and Annie I. Antón. “Prioritizing Legal Requirements,” *To Appear in Second International Workshop on Requirements Engineering and Law*, In conjunction with the *17th IEEE International Requirements Engineering Conference*, Atlanta, GA, 1 September 2009.

Aaron K. Massey and Annie I. Antón. “A Requirements-based Comparison of Privacy Taxonomies,” *First International Workshop on Requirements Engineering and Law*, In conjunction with the *16th IEEE International Requirements Engineering Conference*, Barcelona, Spain, 8 September 2008.

Travis Breaux and Annie I. Antón. “A Systematic Method for Acquiring Regulatory Requirements: A Frame-Based Approach,” *6th International Workshop on Requirements for High Assurance Systems (RHAS-6)*, Delhi, India, September 2007.

Acceptance rate: 100%

Travis Breaux, Annie I. Antón, Clare-Marie Karat and John Karat. “Enforceability vs. Accountability in Electronic Policies,” *IEEE 7th International Workshop on Policies for Distributed Systems and Networks (POLICY'06)*, London, Ontario, Canada, pp. 227-230, 5-7 June 2006.

Acceptance rate: 51%

Laurie A. Jones, Annie I. Antón and Julia B. Earp. “Towards Understanding User Perceptions of Digital Authentication Technologies,” *CCS Workshop on Privacy in the Electronic Society*, Alexandria, VA pp. 91-98, 29 October 2007.

Qingfeng He, Paul Otto, Annie I. Antón and Laurie Jones. “Ensuring Compliance Between Policies, Requirements and Software Design: A Case Study.” *4th IEEE International Information Assurance Workshop*, Royal Holloway, UK, pp. 79-92, 13-14 April 2006.

Travis Breaux and Annie I. Antón. “Mining Rule Semantics to Understand Legislative Compliance,” *CCS Workshop on Privacy in the Electronic Society*, Alexandria, VA, pp. 51-54, 7 November 2005.

Acceptance rate: 38%

Travis Breaux and Annie I. Antón. “Deriving Semantic Models from Privacy Policies,” *IEEE 6th Int'l Workshop on Policies for Distributed Systems and Networks (POLICY 2005)*, Stockholm, Sweden, pp. 67-76, 6-8 June 2005.

Acceptance rate: 22%

Ting Yu, Ninghui Li and Annie I. Antón. “A Formal Semantics for P3P,” *Proceedings of ACM Workshop on Secure Web Services (SWS)*, Washington, D.C. October 2004.

William Stufflebeam, Annie I. Antón, Qingfeng He and Neha Jain. “Specifying Privacy Policies with P3P and EPAL: Lessons Learned,” *Workshop on Privacy in the Electronic Society (WPES'04)*, Washington, D.C., 28 October 2004.

Qingfeng He and Annie I. Antón. “A Framework for Modeling Privacy Requirements in Role Engineering,” *International Workshop on Requirements Engineering for Software Quality (REFSQ 2003)*, Klagenfurt / Velden, Austria, 16 - 17 June, 2003.

Annie I. Antón, Julia B. Earp and Ryan A. Carter. “Aligning Software Requirements with Security and Privacy Policies,” *International Workshop on Requirements Engineering for Software Quality (REFSQ 2002)*, Essen Germany, 7-8 September 2002. **(Best Paper Award)**<sup>1</sup>

Thomas A. Alspaugh and Annie I. Antón. “Scenario Networks: A Case Study of the Enhanced Messaging System,” *Seventh International Workshop on Requirements Engineering: Foundation for Software Quality (REFSQ)*, Interlaken, Switzerland, pp. 113-124, 5-6 June 2001.

Annie I. Antón and Julia B. Earp. “Strategies for Developing Policies and Requirements for Secure Electronic Commerce Systems,” *1st ACM Workshop on Security and Privacy in E-Commerce (CCS 2000)*, Athens, Greece, (unnumbered pages), 1-4 November 2000. **(Best Paper Award)**

Annie I. Antón and Colin Potts. “Requirements Engineering in the Long-Term: Fifty Years of Telephony Feature Evolution,” *International Workshop on Feedback and Evolution in Software and Business Processes (FEAST)*

### Refereed Workshop

#### Proceedings (Continued)

Annie I. Antón, John H. Dempster and Devon F. Siege. "Deriving Goals from a Use Case Based Requirements Specification for an Electronic Commerce System," *Sixth International Workshop on Requirements Engineering: Foundation for Software Quality (REFSQ)*, Stockholm, Sweden, 5-6 June 2000. **(Best Paper Award)**

Annie I. Antón, Eugene Liang and Roy Rodenstein, "A Web-Based Requirements Analysis Tool," in *IEEE Fifth Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises*, Stanford University, California, pp. 238-243, 19-21 June 1996.

### Written Testimony

Peter Swire and Annie I. Antón. "Online Behavioral Advertising: Technical Steps Needed to Ensure Consumer Control," Testimony for the Federal Trade Commission, in response to the FTC Staff Statement, Online Behavioral Advertising: Moving the Discussion Forward to Possible Self-Regulatory Principles, 10 April 2008.

Annie I. Antón. "Protecting the Privacy of the Social Security Number from Identity Theft," Testimony before the House Committee on Ways and Means Subcommittee on Social Security, on behalf of the USACM, Washington, DC, 21 June 2007.

### Lightly-Refereed Colloquium & Workshop

#### Proceedings

Annie I. Antón and Julia B. Earp. "Multidisciplinary Project Studio: Designing Secure Electronic Commerce Systems," *6th National Colloquium for Information Systems Security Education (NCISSE)*, Redmond, Washington, 4-6 June 2002.

Annie I. Antón and Julia B. Earp. "A Multidisciplinary Electronic Commerce Project Studio for Secure Systems," *4th National Colloquium for Information Systems Security Education*, Washington, D.C., May 23-25, 2000.

### Refereed Position & Panel

#### Papers

Annie I. Antón. "The Challenge of Balancing Security and Privacy," *CRA Conference on Grand Challenges in Information Security and Information Assurance*, Airlie House, Warrenton, Virginia 16-19 November 2003.

Annie I. Antón and Jo Atlee. "What do you mean I've been practicing without a license? Certifying Requirements Engineering Professionals," in *IEEE International Conference on Requirements Engineering (ICRE 2000)*, Chicago, Illinois, 19-23 June 2000.

### Refereed Research & Tool Demo

#### Posters

Aaron K. Massey, Paul N. Otto and Annie I. Antón. "Aligning Requirements with HIPAA in the iTrust System," *16th IEEE International Requirements Engineering Conference*, Barcelona, Spain, September 2008.

Thomas A. Alspaugh and Annie I. Antón. "Contrasting Use Case, Goal, and Scenario Analysis of the Euronet System," *11th IEEE Joint International Conference on Requirements Engineering (RE'03)*, Monterey Bay, CA, pp. 355-356, 8-12 September 2003.

William Stufflebeam, Annie I. Antón, and Thomas A. Alspaugh. SMaRT -- Scenario Management and Requirements Tool, Research Demo, *11th IEEE Joint International Conference on Requirements Engineering (RE'03)*, Monterey Bay, CA, pp. 351, 8-12 September 2003.

### Abstracts

W. M. McCracken and Annie I. Antón. "GDSS Tools: Uses and Research Applications," *23rd Annual Meeting of the Southeast Region of the Decision Sciences Institute*, Chattanooga, TN, pp. 130, 17-19 February 1993.

### Dissertation

Annie I. Antón. *Goal Identification and Refinement in the Specification of Software-Based Information Systems*, Ph.D. Thesis, Georgia Institute of Technology, Atlanta, GA, USA, June 1997.

*Thesis Co-Advisors:* Dr. Peter A. Freeman and Dr. Colin Potts

### Funding

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#### Sponsored Research

##### Grants

- *Improving The Governance of ITIL-Based Processes Using Historical Incident Analysis*

**Source:** IBM Faculty Award

**PIs:** Annie I. Antón

**Amount:** \$24,000

## Sponsored Research

### Grants (Cont.)

- *SoD: Collaborative Research: Transparency and Legal Compliance in Software Systems*  
**Source:** National Science Foundation — Science of Design  
**PIs:** Annie I. Antón and Eugene H. Spafford (Purdue University)  
**Senior Personnel:** David Baumer and Ignacio Valdes, M.D.  
**Amount:** \$500,000 (NCSU: \$270,407)  
**Duration:** August 2007 - August 2010
- *ITR: Encoding Rights, Permissions and Obligations: Privacy Policy Specification and Compliance*  
**Agency/Program:** NSF Information Technology Research Program  
**PIs:** Annie I. Antón and Colin Potts (Georgia Tech)  
**Senior Personnel:** Lynda Aiman-Smith, David Baumer, Julia B. Earp (NCSU College of Management)  
**Amount:** \$ 920,000  
**Duration:** August 2003 - August 2009
- *Collaborative Research: A Comprehensive Policy-Driven Framework for Online Privacy Protection: Integrating IT, Human, Legal and Economic Perspectives*  
**Agency/Program:** NSF Cyber Trust Program  
**NCSU PIs:** Annie I. Antón and Ting Yu  
**Purdue PIs:** Elisa Bertino, Ninghui Li, Melissa J. Dark, Victor Raskin and Robert W. Proctor  
**Senior Personnel:** David Baumer, Michael Rappa (NCSU College of Management)  
**Amount:** \$ 1,194,000 (NCSU: \$ 534,000)  
**Duration:** September 15, 2004 - August 31, 2009
- *ITR: The Design and Use of Digital Identities.*  
**Agency:** NSF Information Technology Research  
**Co-PIs:** Elisa Bertino (Purdue), Mikhail J. Atallah (Purdue), Eugene H. Spafford (Purdue), Howard E. Sypher (Purdue), Annie I. Antón and Julia B. Earp.  
**Amount:** \$990,000 (Subcontract: \$100,006)  
**Duration:** August 15, 2004 - August 15, 2007
- *Transnational Digital Government*  
**Agency/Program:** NSF Digital Government Program  
**PIs:** Annie I. Antón and José Fortes (U. of Florida)  
**Amount:** \$ 81,401  
**Duration:** August 2003 - July 2005
- *Mapping CMMI to ISO Standard 12207-15504*  
**Agency/Program:** ABB Corporate Research, Raleigh, NC  
**PIs:** Annie I. Antón and Laurie Williams  
**Amount:** \$ 25,000  
**Duration:** August 2003 - May 2004
- *ABB: Software Engineering Knowledge Management*  
**Agency/Program:** ABB  
**PIs:** Annie I. Antón and Laurie Williams  
**Amount:** \$ 25,000  
**Duration:** August 2002 - May 2003
- *Aligning Internet Privacy Policies with Privacy Values*  
**Agency/Program:** NC State E-Commerce Learning Center  
**PIs:** Annie I. Antón and Julia B. Earp.  
**Amount:** \$ 20,000  
**Duration:** June 2003 - July 2003
- *Assessing E-Commerce Software Development Processes*  
**Agency/Program:** NC State E-Commerce Learning Center  
**PIs:** Annie I. Antón and Julia B. Earp.  
**Amount:** \$ 23,730.50  
**Duration:** August 2002 - May 2003

**Sponsored Research****Grants  
(Cont.)**

- *CACC Assessing Agile Requirements Practices*  
**Agency/Program:** NC State CACC  
**PIs:** Annie I. Antón and Laurie Williams  
**Amount:** \$ 26,805  
**Duration:** August 2002 - May 2003
  
- *ITR/PE: Aligning Societal Values, Privacy Policy, and IT Requirements*  
**Agency/Program:** National Science Foundation Information Technology Research  
**PIs:** Annie I. Antón and Colin Potts (Georgia Institute of Technology)  
**Amount:** \$ 334,866  
**Duration:** August 15, 2001 - August 15, 2003
  
- *Agile Processes to Support E-Commerce Software Development*  
**Agency/Program:** NC State E-Commerce Learning Center  
**PIs:** Annie I. Antón and Julia B. Earp.  
**Amount:** \$ 27,945.50  
**Duration:** August 2001 - May 2002
  
- *ABB Learning Objects*  
**Agency/Program:** ABB  
**PIs:** Annie I. Antón and Laurie Williams  
**Amount:** \$ 20,000  
**Duration:** August 2001 - May 2002
  
- *CACC: Analyzing Emerging Software Development Methodologies and Practices*  
**Agency/Program:** NC State CACC  
**PIs:** Laurie Williams and Annie I. Antón.  
**Amount:** \$ 47,895  
**Duration:** August 2001 - June 2002
  
- *Towards Estimating Requirements Coverage: Managing Goals and Scenarios During Requirements Evolution*  
**Source:** National Science Foundation CAREER Award  
**PI:** Annie I. Antón.  
**Amount:** \$ 220,000  
**Duration:** June 2000 - June 2004
  
- *Creating and Validating CMM-Compliant Software Process Models*  
**Source:** Asea Brown Boveri, Raleigh, NC  
**PI:** Annie I. Antón.  
**Amount:** \$ 34,378  
**Duration:** September 2000 - June 2001
  
- *Towards Object-Oriented Rapid Prototyping and Automated Code Generation*  
**Source:** BellSouth Telecommunications, Atlanta, GA  
**PI:** Annie I. Antón.  
**Amount:** \$ 75,000  
**Duration:** June 2000 - June 2001
  
- *Service Requirements for Process Improvement*  
**Source:** BellSouth Telecommunications, Atlanta, GA  
**PI:** Annie I. Antón.  
**Amount:** \$ 30,000  
**Duration:** August 1999 - June 2000
  
- *Identification and Prioritization of Business Rules*  
**Source:** GTE Data Services, Tampa, FL  
**PI:** Annie I. Antón.  
**Amount:** \$ 7,000  
**Duration:** October 1997 - February 1998

**Sponsored Research****Grants  
(Cont.)**

- *USF Economic Development Matching Grant: Identification and Prioritization of Business Rules*  
**Source:** University of South Florida, Tampa, FL  
**PI:** Annie I. Antón.  
**Amount:** \$ 7,000  
**Duration:** January 1998 - June 1998

**Gifts**

- *CISCO Biannual Equipment Donation Program Grant*  
**Source:** CISCO Systems Critical Infrastructure Assurance Group  
**PIs:** Peng Ning, Annie I. Antón and Julie Starr  
**Date of Award:** Fall 2003  
**Amount:** \$ 100,000
- *Intel E-Commerce Equipment Grant*  
**Source:** Intel Corporation  
**PI:** Annie I. Antón  
**Date of Award:** December 2001  
**Amount:** \$39,990
- *NCSU E-Commerce Studio Seed Gift*  
**Source:** Newton Instruments, Butner, NC  
**PIs:** Michael Rappa, Annie I. Antón and Julie Earp  
**Amount:** \$ 25,000  
**Date of Award:** January 2001

**Sponsored Summer****Support**

- *CITAP Summer Research Salary*  
**Source:** NCSU Center for Information Technology and Policy (CITAP)  
**Sponsor:** Dr. Bob Entman, NCSU Department of Communication  
**Amount:** \$ 5,000  
**Duration:** May 1999 - June 1999
- *Electronic Commerce Summer Research Salary*  
**Source:** NCSU College of Management  
**Sponsor:** Dr. Michael A. Rappa, Director NC State E-Commerce Learning Center  
**Amount:** \$ 5,000  
**Duration:** June 1999 - July 1999

**Speaking Engagements**

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**Invited Presentations**

- “Designing Software to Comply with Privacy Laws,” Center for Research on Computation & Society, Harvard University, Cambridge, MA, 6 May 2009.
- “Grand Challenges in Cyber Security, Privacy and Public Policy,” Society of Women Engineers Southeastern Regional Conference, Georgia Institute of Technology, Atlanta, GA, 7 March 2009.
- “Grand Challenges in Cyber Security, Privacy and Public Policy,” **Keynote Speaker**, Summit on the National Academy of Engineering Grand Challenges, Duke University, Durham, NC, 3 March 2009.
- “Designing Software to Comply with Privacy Laws,” **Keynote Speaker**, EU Security Workshop, University of Trento, Italy, 19 January 2009.
- “Personal Experiences in Pursuing Computer Science with ADHD & Dyslexia,” AccessComputing Leadership Institute, Seattle, Washington, 6 November 2008.
- “Designing Software Systems that Comply with Privacy Laws,” **Dean’s Distinguished Lecture**, B. Thomas Golsiano College of Computing and Information Sciences, Rochester Institute of Technology, 31 October 2008.

**Invited Presentations****(cont.)**

“Designing Software Systems that Comply with Privacy Laws,” GVU Alumni Lectuer, College of Computing, Georgia Institute of Technology, Atlanta, GA, 23 October 2008.

“Complying with Privacy Law,” Invited Speaker, American Bar Association Law Conference, Washington, DC, 19-20 June 2008.

“Designing Legally Compliant Software Systems that Contain Sensitive Information,” NSF TRUST Software annual Womens Institute in Technology Center’s 3rd Summer Enrichment (WISE), Cornell University, Ithaca, NY, 9 June 2008.

“Designing Legally Compliant Software Systems that Contain Sensitive Information,” University of Notre Dame, IBM Lecture Series, South Bend, Indiana, 24 April 2008.

“Designing Legally Compliant Software Systems that Contain Sensitive Information,” University of Virginia Computer Science Seminar Series, 18 February 2008.

“Consumer Privacy Through Notice and Consent,” Data Privacy: In Transatlantic Conflict or Cooperation, Duke University School of Law, Durham, NC, 10 January 2008.

“Security in Numbers: SSNs and ID Theft,” Federal Trade Commission, Washington, D.C., 10 December 2007.

“Balancing Security and Privacy on the eCampus,” Dartmouth Regional Summit on Campus Information Security, Dartmouth College, Hanover, NH, 10 October 2007.

“Information Privacy and Security,” North Carolina State University Board of Trustees Meeting, Raleigh, NC, 21 September 2007.

*One of two NCSU College of Engineering faculty members, invited by Dean Martin-Vega, to provide overview of our research before the NCSU Board of Trustees.*

“Protecting the Privacy of the SSN from Identity Theft,” Testimony Before the Subcommittee on Social Security of the House Committee on Ways and Means, on behalf of the Association for Computing Machinery, 21 June 2007.

“Ethics, Design and Sensitive Information Systems,” CA Inc. Technical Leadership Council Annual Retreat, Prague, Czech Republic, May 16, 2007.

“Incorporating Privacy Values, Policies and Law in Information Systems,” Syracuse University EECS/CASE Colloquium, Syracuse, NY, 25 April 2007.

“Challenges Facing Women in Computing Research,” International Women’s Day Invited Speaker, University of California, Berkeley, Berkeley, CA, 9 March 2007.

“Incorporating Privacy Values, Policies and Law in Information Systems,” University of California, Berkeley, Trust Seminar, Berkeley, CA 8 March 2007.

“Incorporating Privacy Values, Policies and Law in Information Systems,” Rice University, Department of Computer Science Colloquium, Houston, TX, 29 November 2006.

“The Need for Transparency in Privacy Statements,” *Georgetown University Law Center and ISSA Conference: Emerging Trends in Information Security and the Law*, Washington, D.C. 10 November 2006.

“Conformance Across Privacy Values, Software Requirements, Policies and Law,” **Invited Plenary Closing Address, AusCERT 2006**, Gold Coast, Australia, 24 May 2006.

“Healthcare Privacy Policy Expression vs. User Comprehension,” Queensland University of Technology, Brisbane, Australia, 19 May 2007.

Aligning Privacy Values, Policies, Law and Software Requirements,” University of Illinois, Trust & Security Institute Seminar, 5 April 2006.

“Aligning Privacy Values, Policies, Law and Software Requirements,” Carnegie Mellon University CyLab Seminar, 7 March 2006.

**Invited Presentations****(cont.)**

“Rappateur Report: The Scientists’ and the Political Decision Makers’ Approach,” Hungarian Parliament, Closing Session of World Science Forum, Budapest, Hungary, 12 November 2005.

*Attendees included Otto von Hapsburg, Austrian archduke and former pretender to the Austro-Hungarian throne, son of Emperor Charles I and Empress Zita as well as Hungarian Prime Minister Ferenc Gyurcsany.*

“Privacy Matters,” Invited Dinner Keynote for IDA-DARPA Defense Science Study Group Banquet, Institute for Defense Analysis, Alexandria, VA, April 2005.

“Blinded Computation,” Institute for Defense Analysis, Alexandria, VA, April 2005.

“Aligning Privacy Values, Policies, Law and Software Requirements” CERIAS Security Seminar, Purdue University, 12 October 2005.

“Balancing Privacy: Inalienable Right or Privilege?,” CERIAS Sixth Annual Information Security Symposium, Purdue University, West Lafayette, IN, 24 March 2005.

“Privacy Matters” **NSF / CISE Distinguished Lecture Series**, Arlington, VA, 2 March 2005.

“Requirements for Machine Enforceable Policies & jetBlue Update,” 2004 The Privacy Place Spring Workshop, Georgia Institute of Technology, Atlanta, GA, 8 March 2004.

“Requirements for Machine Enforceable Policies,” 4th Annual IAPP Privacy and Security Summit Washington, D.C., 18 February 2004.

“The Complexity Underlying JetBlue’s Privacy Policy Violations,” IBM Tivoli, Research Triangle Park, NC, 12 January 2004.

“When Internet Privacy Policies Lie,” Open University, Milton Keynes, UK, 10 December 2003.

“Four Grand Challenges in Trustworthy Computing,” panel discussion on Capitol Hill, representing the CRA with Eugene H. Spafford, Dan Geer, Susan Landau and John Richardson, Washington, D.C., 20 November 2003.

“Crossed Signals: Internet Privacy Policies and User Concerns,” Universidad Autónoma de Madrid, Madrid, Spain, 9 June 2003.

“Aligning Privacy and Security Policies with Software Requirements,” I-Cubed, Raleigh, NC, 31 March 2003.

“Contrasting Goal and Scenario Analysis,” IFIP Requirements Engineering WG 2.9 Workshop, St. Thomas, VI, 18 February 2003.

“Crossed Signals: Internet Privacy Policies and User Concerns,” **CRA Digital Government Fellow Presentation** for Federal Trade Commission (FTC), Washington, D.C., 12 March 2003.

“Reducing Website Privacy Vulnerabilities,” Universitat Politècnica de Catalunya, Barcelona, Spain, 8 Nov. 2002.

“Alineamiento de Requisitos de Privacidad con Políticas y Valores de Usuarios,” **Keynote Speaker:** Fifth Ibero-American Workshop on Requirements Engineering, Valencia, Spain, 11-12 November 2002.

“Research Perspectives: Report on the 1st Symposium on Requirements Engineering for Information Security,” NIAP (National Information Assurance Partnership) Government-Industry IT Security Forum: Strategies for the Development of Security Requirements and Specifications for Computing and Real-Time Control Systems, Indianapolis, IN, 7 March 2001.

“Scenarios, Goals and Policies,” IFIP Req’ts Eng. WG 2.9 Workshop, Duck Island, FL, 21 February 2001.

“Our Policy is to Violate Your Privacy: When Privacy Goals Conflict,” Purdue University Center for Education and Research in Information Assurance and Security, West Lafayette, Indiana, 15 November 2000.

“Deriving Goals from a Use Case Based Requirements Specification for an Electronic Commerce System,” Research Triangle Park SPIN Meeting Speaker, Durham, NC, 13 June 2000.

“Software Process Improvement via Requirements Traceability,” BellSouth Telecommunications Technical Seminar Series, Atlanta, GA, 29 October 1999.

“Goal-Based Requirements Analysis,” ABB Seminar Series, Raleigh, NC 23 October 1999.

## Invited Presentations

- (cont.)
- “A Proposal for Scenario Management,” IFIP Requirements Engineering WG 2.9 Meeting, Duck Island, FL, 20 January 1999.
  - “Goal-Based Requirements Engineering,” IBM Technical Vitality Seminar, Research Triangle Park, NC, 18 November 1998.
  - “Goal Identification and Refinement in the Specification of Software-Based Information Systems,” booth session at *IFIP WG 2.9 Software Requirements Engineering Inaugural Meeting*, Bramshill House, Blasingstoke, Hampshire, UK, 22-25 March 1995.

## Professional Service & Leadership

### Editorial Board Member

- International Board of Referees, *Computers & Security* (2006-present)
- Cognitive Issues Area Editor, *Requirements Engineering Journal* (2000-2008)
- Associate Editor, *IEEE Transactions on Software Engineering* (2004-2007)

### Guest Editor

- Special Issue of *Requirements Engineering Journal*, “Requirements Engineering for Information Security” December 2001.

### National Board / Committee Memberships

- National Security Agency Advisory Committee Panel Member (2008 - present)
- The Future of Privacy Forum Advisory Board (2008 - present)

*The Future of Privacy Forum (FPF) is a think tank led by privacy experts Jules Polonetsky and Christopher Wolf and includes an Advisory Board comprised of leading figures from industry, academia, law and advocacy groups. FPF advocates for privacy advances that promote transparency and user control in a manner that is practical for business to implement to ensure personal autonomy for all who seek to embrace the benefits of our digital society.*

- Georgia Tech Alumni Association Board of Trustees (2007 - 2010)

*In the Spring of 2007, I was one of 11 individuals elected from over 100 nominees for the GTAA Board of Trustees. The Georgia Tech Alumni Association was chartered in June 1908 and incorporated in 1947 as a not-for-profit organization governed by a board of alumni volunteers known as the Board of Trustees.*

- Electronic Privacy Information Center Advisory Board Member (2007 - present)

*EPIC is a public interest research center in Washington, D.C. It was established in 1994 to focus public attention on emerging civil liberties issues and to protect privacy, the First Amendment, and constitutional values. Other computer scientists on this board include Vint Cerf, Whitfield Diffie, David Farber, Peter Neumann, Ray Ozzie, Ron Rivest, Latanya Sweeney, and Willis Ware.*

- CRA Board of Directors (2006 - present)

*The CRA Board of Directors is widely recognized as a distinguished group of leaders in computing research from academia and industry. Members of the CRA Board of Directors are elected by the chairs and heads of over 200 CS & CE academic departments in North America. Representatives from each of the affiliated professional societies (e.g. ACM, IEEE) also are appointed to serve on the board. My election to the board as the only Associate Professor among the academic members is a strong acknowledgment of my leadership ability and our colleagues' regard for my research contributions.*

- U.S. Department of Homeland Security Data Privacy and Integrity Advisory Committee (2006-2009)

*In Fall of 2006, I received a cabinet-level appointment as a Special Government Employee from Secretary Michael Chertoff to this Advisory Committee. “The DHS Data Privacy and Integrity Advisory Committee advises the Secretary of the Department of Homeland Security and the DHS Chief Privacy Officer on programmatic, policy, operational, administrative, and technological issues relevant to DHS that affect individual privacy, data integrity and data interoperability and other privacy related issues.”*

- Member, External Advisory Board for U.C. Berkeley TRUST Research Center (2006 - present)

*The TRUST Center is an \$18M NSF Funded Software Technology Center, directed by Dr. Shankar Sastry. The Team for Research in Ubiquitous Secure Technology (TRUST) is devoted to the development of new science and technology that will radically transform the ability of organizations (software vendors, operators, local and federal agencies) to design, build, and operate trustworthy information systems for our critical infrastructure. The multi-university center is lead by UC Berkeley with the following university*

## Professional Service & Leadership

(Cont.)

- Intel Corporation Special Advisory Board on Security & Privacy (2006 - present)
- NSF CISE Advisory Council (2005 - 2009)

*“The CISE Advisory Committee supplements NSF knowledge by providing up-to-date information on the state of the field, performing specialized policy-informing functions facilitating the Foundation’s response to rapid changes in the CISE subdisciplines and the balance between them, and to identify situations requiring policy attention. More specifically, the AC provides advice on the impact of NSF support policies and programs on the CISE community; provides oversight on program management and performance; and provides advice to the CISE Assistant Director on special issues, forming ad hoc subcommittees to carry out needed studies as necessary.”*
- USACM -- ACM Executive Committee on US Public Policy (2005 - present)

*Named Co-Vice Chair with Professor Ed Felten (Princeton) in 2008*  
*“The ACM U.S. Public Policy Committee (USACM) serves as the focal point for ACM’s interaction with U.S. government organizations, the computing community, and the U.S. public in all matters of U.S. public policy related to information technology.”*
- CRA Committee on the Status of Women in Computing Research (2005 - 2007)

*“The goal of the CRA Committee on the Status of Women in Computing research (CRA-W) is to take positive action to increase the number of women participating in Computer Science and Engineering (CSE) research and education at all levels.”*
- 9th IDA/DARPA Defense Science Study Group (2004 - 2005)

*“The DSSG selects young professors from many of the nation’s top universities, as well as non-university affiliated men and women, all of whom have been nominated by senior academic officials; DSSG alumni, mentors, and advisors; and other officials from various government agencies to take part in DSSG. Over the course of the two-year program, those invited to participate focus on defense policy, related research and development, and the systems, missions, and operations of the armed forces. The DSSG seeks to convey to members an understanding of the technical dimensions of national security issues and an appreciation for the people and operations involved.”*
- USACM -- ACM Committee on US Public Policy (2003 - present)
- Microsoft Research University Relations Advisory Board (2003 - 2005)
- Georgia Tech National Advisory Board (1992-96)

### **National Awards Selection Committees**

- CSO Magazine Most Influential Women in Information Security Awards (2006)
- CRA Nico Habermann Award Committee (2006 - 2007)

### **General Chair**

- First International Workshop on Requirements Engineering and Law, Barcelona, Spain (2008)
- CRA Career Mentoring Workshop for Women, FCRC, San Diego, CA (2007)
- 2nd Symposium on Requirements Engineering for Information Security, Raleigh NC (2002)

### **Program Chair and Co-Founder**

- 3rd Symposium on Requirements Engineering for Information Security, Paris, France (2005)
- 1st Symposium on Requirements Engineering for Information Security, Indianapolis, IN (2001)

### **Chair or Co-Chair of Workshops / Co-Llocated Events Chair and Organizing Committee Member**

- IEEE International Conference on Software Engineering, Minneapolis, MN (2007)
- IEEE 5th International Conference on Requirements Engineering, Essen, Germany (2002)

### **Doctoral Workshop Chair and Organizing Committee Member**

- IEEE 5th International Symposium on Requirements Engineering, Toronto, Canada (2001)

### **Tutorials Chair and Organizing Committee Member:**

- IEEE 4th International Symposium on Requirements Engineering, Limerick, Ireland (1999)
- IEEE 3rd International Conference on Requirements Engineering, Colorado Springs, CO (1998)

### **Publicity Chair and Organizing Committee Member:**

- IEEE 4th International Conference on Requirements Engineering, Chicago IL (2000)

**Professional Service****(Cont.)****Corporate Sponsors Chair**

- IEEE/ACM Conference on Software Engineering Education and Training, Atlanta, GA (1998)

**Program Committee Member:**

- IEEE 16th Requirements Engineering International Conference, Atlanta, GA (2009)
- ACM SIGSOFT Symposium on the Foundations of Software Engineering, Newport Beach, CA (2004)
- IEEE 26th International Conference on Software Engineering, Edinburgh, Scotland, UK (2004)
- IEEE 25th International Conference on Software Engineering, Portland, OR (2003)
- IEEE 10th Annivervary Joint International Symposium/Conference on Requirements Engineering, Essen, Germany (2002)
- IEEE 5th International Symposium on Requirements Engineering, Toronto, Canada (2001)

**Program Committee Member:**

- 3rd Ibero-American Workshop on Requirements Engineering, Rio de Janeiro (2000)
- IEEE 4th International Conference on Requirements Engineering, Chicago IL (2000)
- IEEE 4th International Symposium on Requirements Engineering, Limerick (1999)
- 1st International Workshop on Requirements Engineering Process (1999)
- IEEE 3rd International Conference on Requirements Engineering, Colorado Springs (1998)

**Reviewer:**

- NSF Committee of Visitors for CISE (2006)
- NSF BPC Review Panel (2005)
- NSF CISE Review Panel (2005)
- NSF ITR Site Visit Panel Member (2005)
- NSF Committee of Visitors for OPP PRSS (2004)
- NSF Proposal Review Panel (2004)
- NSF Panel for 2001 SFS Awards
- *IEEE Transactions on Secure and Dependable Computing* (2006-present)
- *ACM Transactions Software Engineering and Methodology* (2000-present)
- *IEEE Software Magazine* (1996-present)
- *IEEE Transactions Software Engineering* (1997-present)
- NSF Panel for 1998 CISE Awards

**Other:**

- Elected Member, International Federation of Information Processing (IFIP) Working Group 2.9 (2001 - present)
- Member, Institute of Electrical and Electronics Engineers since 1991, Senior Member since 2003
- Association of Computing Machinery (1991-present)
- International Association of Privacy Professionals (2003-present)
- Moderator, International Student Requirements Engineering e-mail list (1993-1997)

**University Service & Leadership****NORTH CAROLINA STATE UNIVERSITY**

- Chair, Computer Science Strategic Planning Committee (2009 - present)
- Member, University Reappointment, Promotion And Tenure Committee (URPTC) (2009 - present)
- Elected Member, Computer Science Strategic Planning Committee (2008 - present)
- Director, ThePrivacyPlace.Org (2001-present)

*The Privacy Place is a multi-university, multi-disciplinary research center that I established in 2001. This has become one of the premier academic online resources for people interested in privacy research. It has served as a focal point of information and collaboration for researchers, faculty, students, industry and the public.*

- Chair, NC State University Public Policy Task Force (2008)

*The task force, charged by Provost Larry A. Nielsen, was comprised of 14 faculty and 2 students from 13 different colleges and research centers with conflicting viewpoints about what was best for the university. Over the course of six months, I was instrumental in leading our effort to complete a comprehensive inventory of all public policy research, courses and contributions at NC State. In addition, we produced a comprehensive report in which the task force unanimously recommended that we establish the Institute for Science & Technology — Engaged Public Policy (InSTEPP). The full report is available online: [http://www.provost.ncsu.edu/governance/task-forces/documents/PublicPolicypptf\\_finalReport\\_submit.pdf](http://www.provost.ncsu.edu/governance/task-forces/documents/PublicPolicypptf_finalReport_submit.pdf)*

- Co-Chair, 40th Anniversary Celebration Committee, Department of Computer Science (2006-2007)
- Chair, Awards Committee, Department of Computer Science (2006-2009)
- Member, Software Engineering Faculty Recruiting Committee, Department of Computer Science (2006-2007)

### University Service & Leadership

#### (Cont.)

- Chair, Software Engineering Faculty Recruiting Committee, Department of Computer Science (2004-2005)
- Member, Software Engineering Faculty Recruiting Committee, Department of Computer Science (2003-2004)
- Chair, Strategic Planning Committee, Department of Computer Science (2002-2003)

*The committee put together a 25-page compact plan document which outlined a set of strategic directions for the department. The two highest priority items identified by the committee, namely the hiring of nine (9) new faculty in strategic areas and the allocation of five (5) new TAs, were fully funded by the College. The committee also crafted new vision and mission statements for the department, which were adopted overwhelmingly by the faculty, planned the January 2003 faculty retreat, and facilitated the strategic plan discussions at the retreat.*

- Facilitator, Department of Computer Science Faculty Retreat (January 2003)
- Coordinator, NSA (National Security Agency) Center of Academic Excellence in Information Assurance Education Application Team (2001-2002)
- Faculty Liaison, Department of Computer Science ePartners Industrial Affiliate Program (2000-2002)
- Co-Director, Electronic Commerce Studio (2000-present)
- Member, NCSU Multidisciplinary Studies Curriculum Committee (2000-present)
- Member, Recruiting Committee for E-commerce Faculty Position, NCSU CS Department (2000-01)
- Member, Computer Science Graduate Admissions & Recruiting Committee (1998-2000)
- Member, Recruiting Committee for E-commerce Faculty Position, NCSU College of Mgmt (1998-99)

### UNIVERSITY OF SOUTH FLORIDA

- Member, University of South Florida IS/DS Faculty Recruiting Committee (1997)
- Faculty Mentor, McNair Scholars Program (1998)

### GEORGIA INSTITUTE OF TECHNOLOGY

- President, Georgia Tech Alumni Association Sun Coast Club, FL (1998)
- Member, Vice President for Student Affairs Search Committee (1996-97)
- Chair, Georgia Tech Capital Campaign Student Volunteer Team (1996)
- Member, Software Engineering Strategic Planning Committee (1992-95)
- Member, Georgia Tech President's Inaugural Planning Committee (1994-95)
- Member, Executive Director of Information Technology Search Committee (1993-94)
- Member, Coordinator of Disabled & Non-Traditional Students Search Committee (1993-94)
- Member, Georgia Tech Alumni Association Leadership Awards Committee (1993, 1996)
- Member, College of Computing (CoC) Graduate Program Committee (1992-94)
- Elected, CoC Graduate Student Liaison to the Faculty (1990-92)
- Chair, CoC Graduate Student Committee (1990-92)
- Member, CoC Undergraduate Curriculum Reform Committee (1990-91)

### Teaching Experience

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#### NORTH CAROLINA STATE UNIVERSITY

1998-Present

Assistant Professor, Associate Professor & Full Professor

Raleigh, North Carolina

- CSC 326 - Software Engineering (Fall '98, Fall '99, Fall '00, Spring '02, Spring '03)
- CSC 495 - Software Engineering Project (Spring '00)
- CSC/ECE 510 - Software Engineering (Fall'02, Spring'04, Fall'04, Fall'06, Fall'07, Spring'08, Fall'08, Fall'09)
- CSC/BUS 516 - Information Assurance Practicum (Spring '07)
- CSC/BUS 516 - Electronic Commerce Practicum (Spring '01, Fall '01, Fall '02, Spring '05)
- CSC 595i - Contextual Design (Spring '00)
- CSC 595/791 - Requirements Engineering (Spring '99, Spring '03, Spring '08)
- CSC 630 - Software Engineering Seminar (Fall '98, Fall '99, Fall '00)
- CSC 591/791 - Privacy Technology, Policy & Law (Spring '09)

#### UNIVERSITY OF SOUTH FLORIDA

1997-1998

Assistant Professor

Tampa, Florida

- ISM 3113 - Systems Analysis & Design (Fall '97, Spring '98 -- two sections )

#### GEORGIA INSTITUTE OF TECHNOLOGY

1990-1994

Graduate Teaching Assistant

Atlanta, Georgia

- CS 4345 - Computerization in Society (Fall '94)

- CS 4807,8,9 - Senior Design Project Advisor for 15 students (Spring-Summer '91, Fall '95-Spring'96)
- CS 4351 - MIS Methodology (Winter '91, Fall '91)
- CS 4753 - Human Factors in Software Development (Fall '90, Spring '93)

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**Thesis Committee Chair**

**Ph.D. Students**

- Thomas A. Alspaugh, Doctor of Philosophy (December 2002)  
*Thesis:* Scenario Networks and Formalization for Scenario Management  
*Affiliation After Graduation:* University of California, Irvine  
*Current Affiliation* Georgetown University
- Qingfeng (Frank) He, Doctor of Philosophy (December 2005)  
*Thesis:* Requirements-based Access Control Analysis and Policy Specification (ReCAPS)  
*Affiliation After Graduation:* Researcher, ABB Corporate Research, Raleigh, NC
- Jim Yuill, Doctor of Philosophy December 2006)  
*Co-Chair:* Mladen Vouk  
*Thesis:* Deception Investigation for Incident Response  
*Affiliation After Graduation:* Self-Employed, Durham, NC
- Travis Breaux, Doctor of Philosophy (May 2009)  
*Thesis:* Legal Requirements Acquisition for Specifying Legally Compliance Information Systems  
*Affiliation After Graduation:* Institute for Defense Analysis, Alexandria, VA
- Paul Otto, Doctor of Philosophy & Juris Doctorate (JD 2011 @ Duke; PhD 2012 @ NCSU)  
*Thesis Area:* Legal Compliance in Software Systems
- Aaron Massey, Doctor of Philosophy & Juris Doctorate (2012)  
*Thesis Area:* Regulatory Compliance
- Jessica Young, Doctor of Philosophy (2012)  
*Thesis Area:* Commitment Theory
- Jeremy Maxwell, Doctor of Philosophy (2012)  
*Thesis Area:* Using Production Rules to Model Regulations
- Gurleen Kaur, Doctor of Philosophy (2012)  
*Thesis Area:* TBD
- Andrea Villanes, Doctor of Philosophy (2013)  
*Thesis Area:* TBD

**M.S. Students**

- John Hampton Dempster, Master of Science (June 2000)  
*Thesis:* Inconsistency Identification and Resolution in Goal-Driven Requirements Analysis
- Ryan A. Carter, Master of Science (May 2001)  
*Thesis:* Evolutionary Prototyping for Electronic Commerce
- Hema Srikanth, Master of Science (May 2002)  
*Thesis:* Agile Evolutionary Prototyping
- William H. Stufflebeam, Master of Science December 2005)  
*Qualifying Exam for PhD:* November 2005
- Matthew Vail, Master of Science (May 2006)  
*Thesis:* Privacy Policy Representations and User Comprehension
- Paul Otto, Master of Science May 2007)  
*Qualifying Exam for PhD:* Spring 2007

**Undergraduate Honors Thesis Students**

- Kevin Farmer (December 2000)
- Felton Samuel Dengler (December 1999)
- Matthew Vail (December 2004)
- Jack Frink (May 2005)
- Neha Jain (May 2005)

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**Thesis Committee Member**

**PhD Thesis committee member for:**

- Dingbang Xu (Chair: Peng Ning)
- Carlos Jensen (Georgia Institute of Technology)
- Yutao Xie (Chair: Dr. Purush Iyer)
- Junyu (Allen) Zheng (Civil Engineering)
- Drigh Ho (Chair: Dr. Laurie Williams)

**Thesis Committee Member****(Cont.)****MS Thesis committee member for:**

Joseph Clay Drye, 2001 (Chair: Dr. W. Lee)

Kai Yang, 2002 (Chair: Dr. L. Williams)

Anuja Shukla, 2002 (Chair: Dr. L. Williams)

Raoul Jetley, 2002 (Chair: Dr. P. Iyer)

V. Ramachandran, 2002 (Chair: Dr. L. Williams)

Prashant Baheti, 2003 (Chair: Dr. Laurie Williams)

Erkang Zhang, 2004 (Chair: Dr. M. Vouk)

Luo Gao, 2004 (Chair: Dr. Ting Yu)

Bharathy Sethumadhavan, 2004 (Chair: Dr. Ting Yu)

Michael Gegick, 2004 (Chair: Dr. Laurie Williams)

**Research Scientists**

Laurie Jones (2006) -- Now a PhD student at CMU, funded with an NSF PhD Graduate Fellowship

**CRA DMP Mentees**

Roksolana Antonyuk (2001)

Laura Bode (2002)

Neha Jain (2004)

Laurie Jones (2005)

Angela Reese (2001)

Marlies Santos (2007)

Ha To (2000)

**AGEP Mentees**

John Edwards (2008)

**References**

Available upon request.