Vicky Weissman

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EDUCATION

Cornell University, College of Engineering
Doctorate of Philosophy, Computer Science
Advisor: Joe Halpern; **Thesis**: Reasoning about Security Policies; **Minor**: Law.
Master of Science, Computer Science, February 2003
Master of Engineering, Computer Science, May 1999
Bachelor of Science, Electrical Engineering, May 1996

PUBLICATIONS

- Joseph Halpern and Vicky Weissman, "A Formal Foundation for XrML", Proceedings of the 17th IEEE Computer Security Foundations Workshop (CSFW 2004).
- Riccardo Pucella and Vicky Weissman, "A Formal Foundation for ODRL", Proceedings of the Workshop on Issues in the Theory of Security (WITS 2004).
- Riccardo Pucella and Vicky Weissman, "Reasoning about Dynamic Policies", Proceedings of the 6th International Conference on Foundations of Software Science and Computation Structure (FOSSACS 2004).
- Carl Lagoze and Vicky Weissman, "Towards a Policy Language for Humans and Computers", Proceedings of the 8th European Conference on Digital Libraries (ECDL 2004).
- Joseph Halpern and Vicky Weissman, "Using First-Order Logic to Reason about Policies", Proceedings of the 16th IEEE Computer Security Foundations Workshop (CSFW 2003).
- Riccardo Pucella and Vicky Weissman, "A Logic for Reasoning about Digital Rights", Proceedings of the 15th IEEE Computer Security Foundations Workshop (CSFW 2002).
- Vicky Weissman, "A Review of Modal and Temporal Properties of Processes by Colin Stirling", SigACT News, June 2003.
- Vicky Weissman, "A Review of Model Checking by Clarke, Grumberg, and Peled", SigACT News, March 2002.

TEACHING

Cornell University, College of Engineering
- Supervised 2 undergraduate and 2 master's projects, which together demonstrated that formal policy languages can be made accessible to non-experts. (1/03 – 5/03)
- Designed the curriculum, lectured, prepared assignments, and managed the teaching staff for CS 99 (Intro. to Computer Science) and for CS 202 (Programming in Java). (6/99 – 8/99)
- Guided cooperative learning groups in Physics, Math, and Electrical Engineering. (9/94 – 6/96)
- Oversaw laboratory experiments in Physics and Electrical Engineering. (9/94 – 6/96)
- Tutored Physics on a walk-in basis at the Learning Skill Center. (9/95 – 6/96)

PROFESSIONAL ACTIVITIES

- Co-chair for the Portia Workshop on Sensitive Data in Medical, Financial, and Content-Distribution Systems, July 8 - 9, 2004.
- Panel discussions: Member of a small team that organized the panel discussion "Opportunities in Computer Science", Nov. 17, 2003. Panel moderator for "Perspectives on Woman in Computer Science", Dec. 9, 2002.
- Founding member of the Women's Mentorship Program in Computer Science.

- Presented "A Formal Foundation for XrML" as an invited speaker of the Security Seminar at the University of Pennsylvania. Also presented this work at Microsoft Research Laboratories in Cambridge and at Princeton University. All talks given in 2004.
- Presented preliminary research on policy specification languages at Microsoft Research Laboratories in Cambridge, 2002.

RELEVANT EXPERIENCE

Research Assistant
Cornell University, Formal Methods Group, Ithaca, NY (1/00 – present)
- Developed languages for reasoning about policies. See research statement for details.

Sandia National Laboratories, Cyber Defense Group, Livermore, CA (6/00 – 8/00)
- Analyzed network vulnerabilities and recommended improvements.

Cornell University, Reliable Systems Group, Ithaca, NY (8/98 – 5/99)
- Designed and implemented a high performance, relatively transparent toolkit for multiple reader, single writer shared objects, using Active Messages. This work was presented at BOOM 2000. See http://www.cs.cornell.edu/clusters/actoolkit for details.

Cornell University, Digital Signal-Processing Laboratory, Ithaca, NY (6/95 – 8/95)
- Designed and tested compression schemes for MPEG bitstreams.

Software Engineer
Cirrus Logic, Inc., Bellevue Design Center, Bellevue, WA (1/97 – 12/97)
- Member of the display driver team, specializing in optimization.

Hardware Engineer
Cirrus Logic, Inc., Bellevue Design Center, Bellevue, WA (7/96 – 1/97)
- Member of the design team for the next-generation graphics chip.

REFERENCES

- Joseph Halpern, Professor
  Cornell University
  Computer Science Department
  Upson Hall
  Ithaca, NY 14853
  Tel: (607) 255-9562; Fax: (607) 255-4428; Email: halpern@cs.cornell.edu

- Fred B. Schneider, Professor
  Cornell University
  Computer Science Department
  Upson Hall
  Ithaca, NY 14853
  Tel: (607) 255-9221; Email: fbs@cs.cornell.edu

- John Mitchell, Professor
  Stanford University
  Computer Science Department
  Gates Building
  Stanford, CA 94305
  Tel: (650) 723-8634; Fax: (650) 725-4671; Email: mitchell@cs.stanford.edu

- Carl Lagoze, Senior Research Associate
  Cornell University
  Information Science Department
  301 College Avenue
  Ithaca, NY 14850
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