

# Jodie P. Boyer

Curriculum Vitæ

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## RESEARCH INTERESTS

Privacy, Security, Human Computer Interaction and Ubiquitous Computing

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## EDUCATION

Ph.D. in Computer Science (*in progress*)  
University of Illinois at Urbana-Champaign  
Advisor: Professor Carl Gunter

B.S. (with Distinction, Honors) 2003  
Computer Science, Purdue University

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## RESEARCH AND INDUSTRIAL POSITIONS

**Research Assistant, Illinois Security Lab** Fall 2005-Spring 2006, Spring 2007-*Present*  
*Dept. of Computer Science, University of Illinois* *Champaign, IL*

Worked with Professor Gunter on workflow, privacy, and ubiquitous computing.

**Research Assistant**

*National Center for Super Computing Applications, University of Illinois*

**Summer 2005**

*Urbana, IL*

Developed and implemented a system to convert Kerberos logs into a database that could be easily mined to look for security incidents.

**Intern**

*Intel Corporation*

**Summer 2004**

*Champaign, IL*

Design and execution of a performance profile for analysis tools.

**Intern**

*Intel Corporation*

**Summer 2001, Summer 2002, Summer 2003**

*Hillsboro, Or*

Design and implementation of UI for Location Aware Computing. Design and implementation of a firmware demonstration for Intel X-Scale devices.

Design and implementation of device profiling for an Intel Developers Forum demonstration. Researched device management technologies.

Designed and implemented the automation of tests for network drivers.

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TEACHING EXPERIENCE

**Co-Facilitator, Security Reading Group**

*Department of Computer Science, University of Illinois*

**Fall 2005 - Spring 2007**

*Urbana, IL*

Co-facilitated CS591RHC, the UIUC Department of Computer Science Security Reading Group course. Responsibilities included screening papers suggested for discussion, selecting papers for presentation during course “theme” periods, updating the course newsgroup and web pages, keeping group discussion lively, and tracking attendance.

**Teaching Assistant, Introduction to Information Assurance**

*Department of Computer Science, University of Illinois*

**Fall 2006**

*Urbana, IL*

Graded and prepared homework assignments and exams. Administered online section for the course. Prepared and gave two guest lectures.

**Teaching Assistant, Introduction to Computer Science**

*Department of Computer Science, Purdue University*

**Fall 2001- Spring 2003**

*West Lafayette, IN*

Taught freshmen level programming labs. Wrote and graded lab assignments. Taught a recitation section for a freshman seminar.

**Teaching Assistant, Digital Logic Design**

*Dept. of Electrical and Computer Engineering, Purdue University*

**Spring 2001**

*West Lafayette, IN*

Aided graduate assistant in sophomore level digital logic design class during labs. Graded assignments.

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## AWARDS AND HONORARIES

### Research and Academic Honors

- ACDIS Thesis Initiation Fellowship, University of Illinois, Spring 2006
- SURGE Fellowship, College of Engineering, University of Illinois, 2003
- Recipient, Women in Science and Engineering Scholarship, Intel Corporation 2001
- Recipient, Lockheed Martin Outstanding Academic Achievement Scholarship, 2000, 2001, 2002
- Recipient, Stevenson Scholarship, Hudson High School, 1999

### Teaching and Service Awards

- Recipient, Outstanding Service Award, Department of Computer Science, University of Illinois, 2005
- Recipient, Outstanding Service Award, Department of Computer Science, University of Illinois, 2004

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## ACADEMIC SERVICE

- Member of the Graduate Study Committee, Department of Computer Science, University of Illinois, 2006/2007
- Member of the Fellowships, Assistantships, Admission Committee, Department of Computer Science, University of Illinois, 2005/2006
- Co-coordinator, Graduate Student Visit Weekend, Spring 2005
- President of the Computer Science Graduate Student Organization, 2004/2005

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## PROFESSIONAL SERVICE

### Journal Reviewer

- Journal of Computer Security

## External Reviewer

- Symposium for Computer Security Foundations
  - Joint Workshop on Foundations of Computer Security and Automated Reasoning for Security Protocol Analysis
  - ACM Workshop on Privacy in the Electronic Society
  - IEEE International Conference on Network Protocols
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## SELECTED PRESENTATIONS

- Paper Presentation “Improving Multi-Tier Security Using Redundant Authentication”, Computer Security Architecture Workshop, November 2nd, 2008
  - Guest Lecture, “Key Management”, CS598IA, Dept. of Computer Science, University of Illinois, March 1st, 2007
  - Guest Lecture, “Security and Privacy in Building Automation Systems”, CS598SH, Dept. of Computer Science, University of Illinois, February 8th, 2007
  - Paper Presentation “Defeasible Security Policy Composition for Web Services”, Formal Methods in Security Engineering Workshop, November 3rd, 2006
  - Guest Lecture, “Does Surveillance Make Us Safer?”, GEOG 110, Dept. of Geography, University of Illinois, April 24, 2006
  - Paper Presentation, “Privacy Sensitive Location Information Systems in Smart Buildings”, Security in Pervasive Computing, April 18-21, 2006
  - Invited Talk, “Privacy Sensitive Location Information Systems in Smart Buildings”, Trust and Security Seminar, April 12, 2006
  - Invited Talk, “Does Surveillance Make Us Safer?”, ACDIS Colloquium Series on Conflict and Security, University of Illinois, April 3rd, 2006
  - Guest Lecture, “Security and Privacy in Building Automation Systems”, CS598SH, Dept. of Computer Science, University of Illinois, March 2nd, 2006
  - Guest Lecture, “Privacy and Human Factors”, CS591BPB, , Dept. of Computer Science, University of Illinois, Feb. 13th, 2006
  - Invited Talk, “Closing Discussion on Key Findings for Panel 2, Design Approaches for Critical Applications”, ITI Workshop on Dependability and Security, Dec 6th 2005
  - Paper Presentation, “Supporting Dynamically Changing Authorizations in Pervasive Communication Systems”, Security in Pervasive Computing, April 2005
  - Invited Talk, “Location Based Workflow Auditing and Policy and Surveillance”, ITI Workshop on Dependability and Security, Dec 3rd 2004
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## PUBLICATIONS

### Refereed Conference and Workshop Papers

- [1] J. P. Boyer and R. Hasan and L. E. Olson and N. Borisov and C. A. Gunter Improving Multi-Tier Security Using Redundant Authentication In *Computer Security Architecture Workshop*, 2007
- [2] J. P. Boyer and K. G. Karahalios FriendGlass: A Privacy Preserving Ambient Location Display In *Security User Studies: Methodologies and Best Practices*, 2007
- [3] A. J. Lee and J. P. Boyer and L. E. Olson and C. A. Gunter Defeasible Security Policy Composition for Web Services In *Formal Methods in Security Engineering*, 2006
- [4] J. P. Boyer and K. Tan and C. A. Gunter Privacy Sensitive Location Information Systems in Smart Buildings. In *The 3rd International Conference for Security in Pervasive Computing*, 2006.
- [5] A. J. Lee and J. P. Boyer and C. Drexelius and P. Naldurg and R. Hill and R. H. Campbell Supporting Dynamically Changing Authorizations in Pervasive Communication Systems. In *The 2nd International Conference for Security in Pervasive Computing*, 2005.