

Joseph A. Calandrino

EDUCATION:

- 2006-Present** **Princeton University, Princeton, NJ**
Enrolled in Computer Science Ph.D. program
Research Interests: Information security, information technology policy
Advisor: Edward W. Felten
- 2000-2006** **University of Virginia, Charlottesville, VA**
Master of Computer Science, 2005
Project Title: Private Resource Pairing
Advisor: Alfred C. Weaver
- Bachelor of Science with Highest Distinction in Computer Science, Mathematics, 2004*
Thesis Topic: Development and Limitations of a Context-Dependent Text-to-Speech System
Advisor: Paul F. Reynolds
Rodman Scholar (Honors Program)

RESEARCH EXPERIENCE:

- 2007-Present** **Research Assistant – Princeton University**
- Examine issues of private information leakage from publicly available data
 - Conduct research into audit methods for voting systems
- 2005-2006** **Research Assistant – University of Virginia**
- Developed methods to balance information privacy and availability, including:
 - Cryptographic techniques matching entities not wishing to reveal resource requests with entities not wishing to reveal resource possession publicly
 - Proof that Boneh-Franklin encryption is anonymous across master keys
 - Data sanitization techniques that provably protect privacy while offering fine-grained utility guarantees for sanitized data

TEACHING EXPERIENCE:

- 2004-2005** **Teaching Assistant – CS 201: Software Development Methods, University of Virginia**
- Assisted for two semesters (Class sizes: 90 students, 240 students)
 - Led laboratory sessions (~40 students/lab), held office hours, gave multiple guest lectures
 - Prepared laboratory work and other assignments; assisted in grading
 - Organized undergraduate teaching assistants

INDUSTRY EXPERIENCE:

- Summer, 2006** **Intern – Oak Ridge National Laboratory, Oak Ridge, TN**
- Developed tools and methods to assist in detection of insider threats to information systems
 - Applied machine learning techniques to detect anomalies in insider behavior
- Summer, 2004** **Software Engineer Intern – Science Applications International Corp (SAIC), Chantilly, VA**
- Developed audit tools and object relational database tools in J2EE
 - Used Struts, JMS, JSP's, servlets, Hibernate, Eclipse, WebSphere, MySQL

Summer, 2003 Junior Software Developer Intern – SAIC, Arlington, VA

- Assisted in development and optimization of facial recognition software

Summer, 2002 Geophysical Software Developer – SAIC, Arlington, VA

- Developed GUI-based tools to interact with Oracle database, manage analysis of seismic data

UNIVERSITY AND PROFESSIONAL SERVICE:

- Organizer – Princeton Security Reading Group, 2006-Present
- External Reviewer – International Conference on Knowledge Discovery and Data Mining, 2006
- Web Master – Technical Committee on Computer Architecture, IEEE, 2001-2006
- Member – University of Virginia Computer Science Web Team, 2001-2004
- Member – University of Virginia Residence Staff, 2002-2004, 2005-2006
- Graduate Advisor, 2005-2006; Head Resident, 2003-2004, Resident Advisor, 2002-2003

HONORS:

- U.S. Department of Homeland Security Graduate Fellow, 2005-Present
- Undergraduate Research and Design Symposium Finalist, 2004
- Department of Computer Science Undergraduate Service Award Recipient, 2003
- Pi Mu Epsilon Mathematics Honorary Society Member
- Golden Key Honor Society Member
- National Society of Collegiate Scholars Member
- Dean's List, 2000-2004
- A. Thomas Young Scholarship Recipient, 2002-2004
- Class of 1986 Scholarship Recipient, 2001-2002
- Westmoreland Davis Memorial Foundation Scholarship, 2000-2001
- NCR Scholarship Recipient, 2000-2001
- Gold Award Recipient, Humor Writing, Scholastic Art & Writing Awards 2000

REFERENCES: Available upon request