

Paul D. Rowe

PERSONAL INFORMATION

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RESEARCH INTERESTS

Information Assurance, Information Privacy, Cryptographic Protocols, Logic in Compute Science, Formal Specification and Verification

EDUCATION

University of Pennsylvania, Philadelphia, PA

Ph.D. in Mathematics Expected Spring 2009

- Thesis Advisor: Dr. Andre Scedrov

Carleton College, Northfield, MN

B.A. in Mathematics, Minor in Francophone Studies, *magna cum laude* Spring 2003

RESEARCH POSITIONS

University of Pennsylvania, Philadelphia, PA

Ph.D. Candidate, Department of Mathematics Fall 2004 -

- Project: Collaboration and Confidentiality, Fall 2006 -
- Supervisor: Dr. Andre Scedrov

Stanford University, Palo Alto, CA

Visitor, Department of Computer Science Summer 2007, Summer 2008

- Host: Dr. John C. Mitchell
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HONORS AND AWARDS

Dissertation Research Fellowship, University of Pennsylvania Fall 2008

KUDOS Penn TA Prize, University of Pennsylvania Spring 2007

Departmental Good Teaching Award, University of Pennsylvania Spring 2007, Fall 2005

Distinction in Math Department's Integrative Exercise, Carleton College Spring 2003

Dean's List, Carleton College Spring 2001, Spring 2000

PAPERS AND PUBLICATIONS

Journal Papers

M. Kanovich, P. Rowe, A. Scedrov, *Collaborative Planning with Confidentiality*, submitted.

Conference Papers

M. Kanovich, P. Rowe, A. Scedrov, *Policy Compliance in Collaborative Systems*, submitted.

J. C. Mitchell, P. Rowe, A. Roy, A. Scedrov, *Analysis of EAP-GPSK Authentication Protocol*, In: S. Bellovin and R. Gennaro, eds., "6th International Conference on Applied Cryptography and Network Security (ACNS'08)", New York, June 2008, Springer LNCS, pp. 309-327.

M. Kanovich, P. Rowe, A. Scedrov, *Collaborative Planning with Privacy*, In: A. Sabelfeld, ed., "20th IEEE Computer Security Foundations Symposium (CSF)", Venice, Italy, July 2007, IEEE Computer Society Press 2007, pp. 265-278.

TALKS AND
PRESENTATIONS

Research Talks

Collaborative Planning with Privacy

- Seminar at SRI International, Menlo Park, CA Summer 2008
- 20th IEEE Computer Security Foundations Symposium, Venice, Italy Summer 2007
- Protocol Exchange Meeting, Washington D.C. Spring 2007
- Penn Security Seminar, Philadelphia, PA Spring 2007

Analysis of EAP-GPSK Authentication Protocol

- Protocol Exchange Meeting, Fort Meade, MD Fall 2008
- Conference on Applied Cryptography and Network Security, New York, NY Summer 2008
- Theory of Cryptography Conference Rump Session, New York, NY Spring 2008

Other Talks and Posters

Collaborative Planning with Confidentiality

Poster Session at IBM Security and Privacy Day Fall 2008

Descriptive Complexity and Incompressibility

Penn Mathematics Graduate Student Pizza Seminar, Philadelphia, PA Fall 2008

P vs. NP: What it says

Penn Mathematics Graduate Student Pizza Seminar, Philadelphia, PA Spring 2007

What is Provable Security?

Penn Mathematics Graduate Student Pizza Seminar, Philadelphia, PA Fall 2005

Knot Theory

Carleton Math Department Integrative Exercise, Northfield, MN Spring 2003

TEACHING
EXPERIENCE AND
POSITIONS

University of Pennsylvania, Philadelphia, PA

Undergraduate Mentor

Responsible for guiding an undergraduate student through independent study. The final goal is for the undergraduate to give a talk to an audience of other undergraduate and graduate students. Some potential concepts to explore include:

- Turing Machines and Computational Complexity
- Models of Multiagent, Distributed Systems
- Secrecy in Distributed Systems

Spring 2009

Teaching Assistant

Responsible for conducting recitation, grading homework helping to grade exams, holding office hours and occasional review sessions, and maintaining a web page with necessary information regarding the course.

- *Beginning Calculus (Math 103)*, Spring 2007
- *Calculus I (Math 104)*, Fall 2005

Fall 2005, Spring 2007

Exam Review Assistant

Responsible for conducting review sessions prior to exams, preparing examples, reviewing concepts and answering questions.

- *Calculus I (Math 104)*, Fall 2006

Fall 2006

Sam Marsalli Institute, Santiago, Chile

English Language Instructor

Summer 2003 - Fall 2004

Responsible for leading English language immersion classes for adults and children of all ages and levels of ability. The focus was using English as the language of instruction, relying heavily on cognates and repetition.

Carleton College, Northfield, MN

Math Skills Center Tutor

Fall 2000 - Spring 2003

Answered questions and explained concepts to struggling students.

Courses supported included:

- *Calculus I - III*
- *Linear Algebra*
- *Mathematical Structures*

OTHER
INTERNATIONAL
EXPERIENCE

Budapest, Hungary

Budapest Semesters in Mathematics

Fall 2001

Lived in an apartment with an American roommate for one semester while taking math courses taught by local Hungarian professors.

PROFESSIONAL
MEMBERSHIPS

Mathematical Association of America

2004-

American Mathematical Society

2004-

Phi Beta Kappa, Carleton College

2003-

Sigma Xi, Carleton College

2003-

OTHER SKILLS

Native English speaker, fluent in French and Spanish.
Some experience with C/C++, Java and Matlab.