

Riccardo Pelizzi

CONTACT INFORMATION

Department of Computer Science
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RESEARCH INTERESTS

Web Application Security, Browser Security, System Security

EDUCATION

Ph.D. Candidate, **Stony Brook University** - Computer Science
Fall 2009 - Current

Expected graduation date: Fall 2015

- Advisor: Professor R. Sekar
- Research Topics: Web Application Security
- Projects: Secure Web Applications using the Spreadsheet paradigm, Confinement and Policy Enforcement for JavaScript, Google Dorks XSS scanner, XSS filter Firefox, Automatic CSRF protection.
- GPA: 4.0

Exchange Student, **Vienna University of Technology** - Computer Science
Fall 2008 - Summer 2009

- Erasmus Scholarship
- Finished my last two semesters of courses and wrote my M.S. thesis at the TU Wien's International Secure Systems Lab.

M.S., **Polytechnic Institute of Milan** - Computer Engineering
Spring 2007 - Summer 2009

- *Magna Cum Laude*, 110/110.
- Thesis Topic: *High-Throughput analysis and Clustering of Spam*
- Advisor: Professor Christopher Krügel
- Area of Study: System Security, Web Application Security, Machine Learning, Web Application Development, Spam, Data Mining.

B.Eng., **University of Parma** - Computer Engineering
October 2003 - December 2006

- *Magna Cum Laude*, 110/110.
- Thesis Topic: *Development of Web Application using the MVC pattern with Django*
- Advisor: Professor Eduardo Calabrese
- Area of Study: Radio Trasmission, Web Application Development, Programming Languages, Frequency Analysis, Integrated Circuits, Electrotechnics.

WORK

Intern, **Mozilla Corporation**
Summer 2011

- Summer Internship in Mozilla's Security Team.
- Developed a Cross-Site Scripting defense for the web browser Firefox.

Junior Specialist, **University of California, Santa Barbara** - Computer Science
Summer 2008

- Summer Internship in Prof Giovanni Vigna's Security Lab
- Supervisor: Professor Christopher Krügel
- Developed a System for spam analysis and clustering from a spamtrap.

PUBLICATIONS	<p>Riccardo Pelizzi, R. Sekar. A Server- and Browser-Transparent CSRF Defense for Web 2.0 Applications. In <i>Annual Computer Security Applications Conference (ACSAC 2011)</i>, December 2011.</p> <p>Riccardo Pelizzi, R. Sekar. Protection, Usability and Improvements in Reflected XSS Filters. In <i>ACM Symposium on Information, Computer and Communications Security (ASIACCS 2012)</i>, May 2012</p> <p>Riccardo Pelizzi, R. Sekar. WebSheets: Web Applications for Non-Programmers. In <i>ACM New Security Paradigms Workshop (NSPW 2015)</i>, September 2015.</p> <p>Tung Tran, Riccardo Pelizzi, R. Sekar. JaTE: Transparent and Efficient JavaScript Confinement. In <i>Annual Computer Security Applications Conference (ACSAC 2015)</i>, December 2015.</p>
ACADEMIC EXPERIENCE	<p>Stony Brook University Fall 2009 - Current</p> <ul style="list-style-type: none"> • Teaching assistant for the “Fundamentals of Computer Security” course. • Supervised 4 MS Students for Web Security research projects for the courses CSE593 and CSE523 (Independent Study in Computer Science and MS Thesis Project) • External reviewer for security conferences such as USENIX Security, S&P, etc.
PROJECTS	<p>Significant Graduate Projects</p> <ul style="list-style-type: none"> • C++ Optimizing <i>Compiler</i> for a C-like language. • OCaml Interpreter for a C-Like Language • Native insertion and deletion of blocks into ext2 for the <i>Linux Kernel</i>. • <i>J2EE Web Application</i> with Enterprise Java Beans.
TECHNICAL SKILLS	<p><i>Main Languages:</i> JavaScript, Haskell, Python, C++, OCaml <i>Other languages:</i> C, Java, PHP, SQL, Latex <i>Frameworks and Libraries:</i> Node, Mozilla, Django, Linux Kernel. <i>Operating Systems:</i> GNU/Linux, Microsoft Windows.</p>
HACKING	<p>Stony Brook University October 2010</p> <ul style="list-style-type: none"> • 1st Place as Graduate Team in CSAW CTF 2010 (NYU Poly) <p>University of California, Santa Barbara August 2008</p> <ul style="list-style-type: none"> • Participated at Defcon 16 CTF, helping UCSB’s main team to solve challenges.
LANGUAGES	<p><i>Italian</i> - Native Speaker <i>English</i> - Advanced <i>German</i> - Advanced</p>
REFERENCES	<p>Available upon request</p>