Joe Gibbs Politz

joe@cs.brown.edu | 774.262.5198 | Box 1910, Brown University, Providence RI 02912 | http://www.cs.brown.edu/~joe/

Education

Brown University 2009-present	• PhD Candidate • Advised by Shriram Krishnamurthi
Worcester Polytechnic Institute 2005-2009	• BS in Computer Science, Minor in Mathematics • 3.87 Overall GPA • Graduation with High Distinction • Salisbury Prize – "*...given to the most meritorious seniors at the university.*"

Employment and Research

Google Labs Mountain View, CA	*Intern* Created frameworks for secure cloud sharing with the Google Belay team.	*June – August 2011*
Fujitsu Labs of America (FLA) Sunnyvale, CA	*Intern* Designed and implemented a control-flow analysis for JavaScript, targeted at finding client-side bugs in web applications.	*June – August 2010*
Assistment (WPI CS) Worcester, MA	*Lab Manager* Hired as a statistics programmer in 2008. In January 2009, became responsible for software architecture, deployment, and managing undergraduate employees.	*October 2008 – August 2009*
Sun Microsystems Burlington, MA	*Intern* Developed a tool for analyzing and organizing permission requirements of Java programs, using call graph and dataflow analysis.	*August – October 2008*
WPI Computer Science Dept. Worcester, MA	*Senior Assistant* Held office hours and ran lab sessions for undergraduate computer science courses. *Teaching Assistant* Helped with lab sessions at the WPI Frontiers program for high school students.	*August 2007 – March 2009* *July 2008*
Inter-American Convention for the Protection and Conservation of Sea Turtles (IAC) San Jose, Costa Rica	*Intern* Developed methods for gathering conservation data on endangered sea turtles, and materials to communicate conservation information to governments of the IAC.	*May – July 2007*

Selected Publications (available at http://www.cs.brown.edu/~joe/)

Joe Gibbs Politz, Spiridon Aristides Eliopoulos, Arjun Guha, and Shriram Krishnamurthi. *ADsafety: Type-Based Verification of JavaScript Sandboxing.* USENIX Security, 2011

Joszef Patvarckzi, Joe Gibbs Politz, and Neil Heffernan. *Scalability and robustness in the domain of web-based tutoring.* In 14th International Conference on Artificial Intelligence in Education, Scalability Issues in AIED, 2009.

Web Applications

Assistment (http://www.assistment.org/) – Middle school math and science preparation and assessment system. Assistment is a research project at WPI – I was the lead developer Jan-Aug 2009. See also http://teacherwiki.assistment.org.
Resume (http://resume.cs.brown.edu/) – Faculty recruiting software. It was originally implemented by Jacob Baskin and Arjun Guha and I am the current maintainer.
Apply (http://apply.cs.brown.edu/) – Graduate admissions software based on Resume. I was the sole implementor and technical administrator. Apply is used by the Brown Computer Science Department for graduate admissions.