

CLAIRE SOPHIE KOLMER LE GOUES

<http://www.clairelegoues.com>

233 Colonnade Dr #22
Charlottesville, VA 22903

(617) 308 – 0637
claire.legoues@gmail.com

RESEARCH

I am interested in the study of programming languages, specifically in program analyses, automatic error detection, and automatic program repair.

PUBLICATIONS

Conference:

Stephanie Forrest, Westley Weimer, ThanhVu Nguyen and Claire Le Goues. [A Genetic Programming Approach to Automated Software Repair](#). *Genetic and Evolutionary Computation Conference (GECCO)* 2009. (to appear)

Claire Le Goues and Westley Weimer, [Specification Mining With Few False Positives](#). *Tools and Algorithms for the Construction and Analysis of Systems (TACAS)* 2009: 292-306.

Westley Weimer, ThanhVu Nguyen, Claire Le Goues and Stephanie Forrest. [Automatically Finding Patches Using Genetic Programming](#). *International Conference on Software Engineering (ICSE)* 2009. (to appear) (Distinguished Paper Award, Manfred Paul Award)

Workshop:

ThanhVu Nguyen, Westley Weimer, Claire Le Goues and Stephanie Forrest, Extended Abstract: [Using Execution Paths to Evolve Software Patches](#). *Search-Based Software Testing (SBST)* 2009. (to appear) (Best Short Paper Award, Best Presentation Award)

EDUCATION

UNIVERSITY OF VIRGINIA

Charlottesville, VA

- M.S. Computer Science, May 2009. Thesis: Specification Mining With Few False Positives
- Ph.D student, Computer Science. Advised by Dr. Westley Weimer.

HARVARD UNIVERSITY

Cambridge, MA

- B.A. Computer Science, June 2006. 3.3 average.
- Undergraduate research thesis explored datatype-driven code coercion and optimization. Advised by Dr. Greg Morrisett

TEACHING

University of Virginia: August 2007 – June 2008

2008 Computer Science Department Outstanding Graduate Teaching Assistant

- CS 201: Software Development Methods
- CS 415: Programming Languages

PROFESSIONAL

IBM – Software Engineer

IBM Research; Cambridge, MA

July 2006 – August 2007: Worked with XML Technologies/Compiler team developing and maintaining the Datapower SOA appliance, which facilitates rapid and secure processing of XML on large networks. Worked with a six-man team to design and implement internal language/representation to substantially rewrite a portion of the appliance's XML compiler.

IBM - Research Intern

IBM Research; Cambridge, MA

May 2005 – August 2005: Interned with the Collaborative User Experience (CUE) group. Developed a working prototype in Java for a rapid, collaborative tool to allow users to share their work and screen share in the open source Open Office application. Presented my work in a 30-minute presentation in front of approximately 50 researchers and executives.

IBM - Research Intern

IBM Research; Hawthorne, NY

May 2004 – August 2004: Interned with the Architect's Workbench team. Programmed in Java while working with a team that seeks to develop a tool to assist IT architects in the design of large systems. Added a number of features, largely related to user interface, to an extensive existent code base. Participated in intern poster session showcasing my contributions.

Cyber Technologies - Assistant Programmer/Intern

Croton, NY

April 2000 - January 2001: Managed basic office and administrative duties. Programmed in HTML and Cold Fusion. Prepared mock pages for presentation to customers, entered data, developed web pages in HTML and CF.

MISCELLANEOUS

Dual US-French citizenship; eligible to work in US or EU without visa or work permit. Additionally fluent in French.