

## FARAH HARIRI

4219 Siebel Center Urbana, IL 61801, USA  
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### EDUCATION

**University of Illinois at Urbana-Champaign (UIUC)**

August 2013 - present

Ph.D. student in Computer Science

**American University of Beirut (AUB)**

September 2009-June 2013 Bachelor in Electrical and Computer Engineering

Overall GPA: 4.0/4.0

Major GPA: 4.0/4.0

### RESEARCH EXPERIENCE

- Current Research at UIUC: Developing techniques for improving regression testing (supervised by Professor Darko Marinov)
- Summer Internship at Google (2017)
- Summer Internship at Google (2014)
- Design and implementation of a Lebanese hand sign language recognizer (2013)
- Developing a mobile sensing application in the context of a project funded by Ericsson (2013)
- EECE 499: Implementation of a tool for automating the specification construction of an algorithm (2012)
- Summer internship at the University of Wisconsin Madison: Contribution to the MOAB mesh generation library by developing a reader-writer set that transforms text files into mesh files and vice versa.(2012)

### PUBLICATIONS

**Evaluating the Effects of Compiler Optimizations on Mutation Testing at the compiler IR Level**

Farah Hariri, August Shi, Hayes Converse, Sarfraz Khurshid, and Darko Marinov

*27th IEEE International Symposium on Software Reliability Engineering*

(ISSRE 2016), pages 105-115, Ottawa, Canada, Oct. 2016

**An Extensive Study of Static Regression Test Selection in Modern Software Evolution**

Owolabi Legunsen, Farah Hariri, August Shi, Yafeng Lu, Lingming Zhang and Darko Marinov

*10th joint meeting of European Software Engineering Conference and the ACM SIGSOFT symposium on the Foundations of Software Engineering*

(ESEC/FSE 2016), Seattle, WA, USA, Nov. 2016

**A Case Study on Executing Instrumented Code in Java PathFinder**

Karl Palmkog, Farah Hariri, and Darko Marinov

*Java Pathfinder Workshop*

(JPF 2015), Lincoln, NE, USA, November 2015

**Reliable Testing: Detecting State-Polluting Tests to Prevent Test Dependency**

Alex Gyori, August Shi, Farah Hariri, Darko Marinov

*International Symposium on Software Testing and Analysis*

(ISSTA 2015), Baltimore, Maryland, USA, July 2015

### **An Empirical Analysis of Flaky Tests**

Qingzhou Luo, Farah Hariri, Lamya Eloussi, Darko Marinov

*10th joint meeting of European Software Engineering Conference and the ACM SIGSOFT symposium on the Foundations of Software Engineering*

(ESEC/FSE 2014), Hong Kong, China, Nov. 2014

**(Nominated for the Distinguished Paper Award)**

### **Automatic Generation of I/O Kernels for HPC Applications**

Babak Behzad, Hoang-Vu Dang, Farah Hariri, Weizhe Zhang, Marc Snir

*9th Parallel Data Storage Workshop*

(PDSW 2014), New Orleans, LA, USA, Nov. 2014

### **Towards a Silent Mobile Sensing Framework for Smart Cities**

Farah Hariri, Guy Daher, Hussein Sibai, Karim Frenn, Sevag Doniguian and Zaher Dawy

*Wireless World Research Forum (WWRF 30)*, Oulu, Finland, March 2013

### **Specification construction using behaviours, equivalences, and smt solvers**

Paul C Attie, Fadi A Zaraket, Mohamad Nouredine, Farah Hariri

## **HONORS AND AWARDS**

- Saburo Muroga Endowed Fellowship (2013)
- Dean's Honor List at AUB
  - Spring 2012-2013
  - Fall 2012-2013
  - Spring 2011-2012
  - Fall 2011-2012
  - Spring 2010-2011
  - Fall 2010-2011
  - Spring 2009-2010
- Hariri Foundation Award for Excellence in Official Exams (2006)

## **SERVICES**

- Helped raising \$12K of funds for REU supplement awarded by NSF
- Helped raising \$462K of funds awarded by NSF (grant no. CCF-1421503)
- Reviewed for ASE 2016
- Reviewed for FSE 2016
- Reviewed for ASE 2015
- Reviewed for ICST 2015
- Reviewed for ICSE 2014
- Reviewed for ICST 2014
- Reviewed for ASE 2014

## **MISC**

- Attended The Fifth Summer School On Formal Techniques(SSFT15)
- Gave a guest lecture in CS527 (Fall 2015)
- Gave a guest lecture in CS427 (Fall 2014)
- Gave a lecture in SPLASH 2015

## **SKILLS**

### **Programming Languages:**

Good in: C++, Java, Python, Linux/bash, MATLAB

Familiar with: LLVM, Prolog, Haskell, MIPS, VHDL, Z3

**Tools:** ANTLR, ModelSim, Xilinx, LabVIEW, Proteus CAD Simulator, MPLAB, PSpice, Microsoft Office, LaTeX, Visual C++.

**Languages:** Fluent in English, French, and Arabic.

**Soft skills:** Leadership, communication, teamwork, organization, motivation, enthusiasm.

## **INTERESTS AND ACTIVITIES**

### **Current Memberships**

Member of the IEEE organization

Member of the ACM organization

Women in CS at UIUC (WCS)

### **Previous Memberships**

Member of the IEEE organization (2009-2012)

Member of WIE (woman in engineering society)(2009-2013)

### **Volunteering work**

Volunteer at the Second Meeting of State Parties to the UN Convention on Cluster Munitions (12-16 September 2011)

### **Hobbies**

Jogging, movies, music