

FARAH HARIRI

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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

Approximate Transformations as Mutation Operators

Farah Hariri, August Shi, Owolabi Legunsen, Milos Gligoric, Sarfraz Khurshid, and Sasa Misailovic
11th IEEE International Conference on Software Testing, Verification and Validation
(ICST 2018), pages-to-appear, Vasteras, Sweden, April 2018

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, Lamyaa 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