

Hesam Samimi

CONTACT INFORMATION 2192 Sweetbriar Rd. hesam.samimi.cs@gmail.com
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INTERESTS Computer Science, Programming and Software Development, and Math Education (High School, College, Online, and Vocational Training), Programming Languages Design and Analysis, Mobile App Development, Application of Artificial Intelligence in Programming and Software Development

EDUCATION **University of California, Los Angeles**, Los Angeles, CA. USA

Ph.D., Computer Science, June 2013

- Area: Programming Languages
- Thesis Title: “From Validation to Automated Repair & Beyond with Constraint Solving”
- Advisor: Prof. Todd Millstein

M.S., Computer Science, June 2009

University of California, Berkeley, Berkeley, CA. USA

B.S., Electrical Engineering & Computer Science, May, 2005

ACADEMIC EXPERIENCE **Living Wisdom School High School, Ananda Village**
Nevada City, CA. USA

Teacher

September, 2017 - present

High School and Junior High Computer Science, Programming, Math, Science History, Yoga and Meditation teacher

Connected Communities Academy

Nevada City, CA. USA

Instructor

April, 2018 - present

Programming and App Development course designer and instructor

Udemy.com Online Education

<https://www.udemy.com/user/hesamsamimi/>

Instructor

June, 2017 - present

Programming, App Development, High School and Junior High Math and Computer Science instructor on Udemy online university

Communications Design Group, SAP Labs / Viewpoints Research Institute

Los Angeles, CA. USA

Researcher

August, 2013 - June 2015

Research on the application of Artificial Intelligence in Programming Languages design, frameworks, and Software Development, advised by Dr. Alan Kay

Research Consultant

June 2008 - December 2012

University of California, Los Angeles, Los Angeles, CA. USA

Co-Teacher **Spring 2012**
Co-Teaching a programming language design project course. Supervised and guided independent student projects related to designing new programming languages or frameworks

Graduate Student **September, 2007 - June, 2013**
Ph.D. research on Programming Languages advised by Prof. Todd Millstein

Teaching Assistant **Winter, 2008 & Spring, 2013**
Programming languages course covering fundamental CS concepts with implementations in ML, Scheme, Java, Python, and Prolog

Teaching Assistant **Fall, 2007**
Software construction laboratory course introducing Linux OS, version control systems, system programming, shell scripting, and network security

Microsoft Research India, Bangalore, India

Research Intern **Summer, 2010**
Research on program synthesis for distributed programming. Advised by Kaushik Rajan

INDUSTRY
EXPERIENCE

Innovation Group, Communications Dept., Ananda, Nevada City, CA. USA

Mobile App Developer **February 2016 - Present**
Design and development of mobile apps related to uplifting consciousness and mindfulness

Yoga and Meditation Teacher **November 2015 - Present**
Leading classes of yoga and meditation

Intel Corp., Santa Clara, CA. USA

Design Automation Engineer **January 2005 - June 2007**
Development, maintenance, and support for automation systems aimed at efficiency, productivity, and reliability of physical verification of design. Automation support for design engineers running Physical Verification flow on circuit blocks, including automation of tool runs, quality control, and data management

ACADEMIC
CONTRIBUTIONS

Doctoral Symposium, European Conference on Object-Oriented Programming, 2011, Lancaster, UK.

Organizing Chair **July 2011**

PUBLICATIONS

Hesam Samimi, Alessandro Warth, Mahdi Eslamimehr, Alan Borning. 2015. Constraints as a Design Pattern: from Sketchpad61 to Sketchpad14. In Proceedings of the ACM International Symposium on New ideas, New Paradigms, and Reflections on Programming & Software (Onward!'15)

Mahdi Eslamimehr, Hesam Samimi. 2015. Timing Analysis of Event-Driven Programs with Directed Testing. In Proceedings of the 15th International Workshop on Worst-Case Execution Time Analysis (WCET'15)

Hesam Samimi, Chris Deaton, Yoshiki Ohshima, Alessandro Warth, Todd Millstein. 2014. Call by Meaning. In Proceedings of the ACM International Symposium on New ideas, New Paradigms, and Reflections on Programming & Software (Onward!'14)

Hesam Samimi, Rebecca Hicks, Ari Fogel, and Todd Millstein. 2013. Declarative Mocking. In Proceedings of the 2013 International Symposium on Software Testing and Analysis (ISSTA'13)

Alan Kay, Ian Piumarta, Kim Rose, Dan Ingalls, Daniel Amelang, Ted Kaehler, Yoshiki Ohshima, Hesam Samimi, Bert Freudenberg, Aran Lunzer, Alan Borning, Bret Victor, and Takashi Yamamiya. 2012. STEPS toward expressive programming systems, a science experiment. VPRI NSF Technical Report, 2012

Hesam Samimi, Max Schäfer, Shay Artzi, Todd Millstein, Frank Tip, and Laurie Hendren. 2012. Automated repair of HTML generation errors in PHP applications using string constraint solving. In Proceedings of the 34th International Conference on Software Engineering (ICSE'12)

Hesam Samimi and Kaushik Rajan. 2011. Specification-based sketching with Sketch. In Proceedings of the 13th Workshop on Formal Techniques for Java-Like Programs (FTfJP'11)

Hesam Samimi, Ei Darli Aung, and Todd Millstein. 2010. Falling back on executable specifications. In Proceedings of the 24th European conference on Object-oriented programming (ECOOP'10)

Alan Kay, Ian Piumarta, Kim Rose, Dan Ingalls, Daniel Amelang, Ted Kaehler, Yoshiki Ohshima, Hesam Samimi, Chuck Thacker, Scott Wallace, Alessandro Warth, and Takashi Yamamiya. 2009. STEPS toward the reinvention of programming. VPRI NSF Technical Report, TR-2009-016, 2009

SKILLS

iOS and Android Mobile App Design and Development, Swift, Java, Objective-C, Backend/Frontend Web Development, Javascript, HTML, CSS, SQL, Ruby, Python, Smalltalk, C#, C, C++, ..., Programming Language Design, Software Development, Testing, Verification, Validation, Automation, Unix, Linux, AI Algorithms, Yoga and Meditation Teacher