

# Kavon Farvardin

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## RESEARCH INTERESTS

Concurrent and functional programming languages and their implementations.

## EDUCATION

### The University of Chicago

Ph.D. in Computer Science

2014 – present



### Pennsylvania State University

B.S. in Computer Science

B.S. in Mathematics

2009 – 2014



## RESEARCH EXPERIENCE



### Penn State Applied Research Laboratory

*Research Staff*

May 2014 – Aug 2014

*Distinguished Undergrad Researcher*

May 2012 – May 2013 ∪ Jan 2014 – May 2014

Performed the duties of a primary developer to research, create, and fix features in a 3D data visualization program.

### Pennsylvania State University

*Undergraduate Researcher*

Aug 2009 – Aug 2011

Worked with a professor on pedagogical research in computer science. I assisted in the design and creation of new features for an educational software tool, which uses a graphical tracing method to help students understand fundamental concepts of programming. We ran an experiment in a computer science course and published our results.

## TEACHING EXPERIENCE

### CMPSC 450 — Concurrent Scientific Programming

*Learning Assistant*

Spring 2014, Penn State

Filled in for a lecture, graded homework, and held office hours.

### CMPSC 461 — Programming Language Concepts

*Teaching Intern*

Spring 2013, Penn State

Prepared and gave the lectures for the class on compilers, context-free and regular languages, memory management, garbage collection, and Prolog. I also prepared the homework assignments and held office hours.

### CMPSC 121 — Introduction to Programming Techniques

*Teaching Intern*

Fall 2012, Penn State

Gave lectures for two sections of the course. The topics I covered include Boolean algebra, sorting and searching algorithms, and basic data structures. I additionally prepared assignments, held office hours, and conducted review sessions before exams.

INDUSTRY  
EXPERIENCE**Intel Corporation***Software Engineering Intern***June 2013 – Dec 2013**

Worked in a hardware validation software tools team on an LLVM based compiler. My tasks were primarily to find and sometimes fix bugs in the compiler.

## PUBLICATIONS

Warms, T. M., Q. Duan, and **K. Farvardin** Can Using A Formal System For Tracing Computer Programs Help Students Learn Introductory Computer Science? *Proceedings of The 2011 IAJC-ASEE International Joint Conference*

## POSTERS

**Farvardin, K.** and T. M. Warmes RandomLinearizer: A Computer Program Tracing Method *Penn State Abington 2011 Undergraduate Research Poster Fair*

## FAMILIARITY

LANGUAGES: C, C++, Java, L<sup>A</sup>T<sub>E</sub>X, Prolog, Python, Scheme, Standard ML, x86 Assembly

TOOLS: Ant, Eclipse, Git, GDB, Make, Subversion, Valgrind