Zoi Paraskevopoulou

Personal Information

Date of birth: 31 July 1990
Gender: Female
Citizenship: Greek

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Education

Master's Degree September 2014 to September 2015 (expected)

Master Parisien de recherche en Informatique, École Normale Supérieure de Cachan, France

Level: M2

Specialization: Logics and Semantics of Programs

Courses:

- Foundations of proof systems
- Linear logic and logical paradigms of computation
- Automated deduction
- Abstract interpretation
- Proof assistants
- Functional programming and type systems
- Proofs of programs
- Semantics, languages and algorithms for multicore programming

Diploma (5-year degree) September 2008 to September 2014

School of Electrical and Computer Engineering, National Technical University of Athens, Greece

Majors: Computer Software, Computer Systems

Minors: Mathematics, Computer Networks

Thesis: *A Coq Framework For Verified Property Based Testing*, Grade: 10/10

Thesis Committee: Nikolaos Papaspurou, Kostis Sagonas, Yannis Smaragdakis

GPA: 8.4/10

General Lyceum (Upper Secondary School) September 2005 to June 2008

Geitonas School, Athens, Greece

GPA: 19.5/20

Research Experience

Research Internship at INRIA Paris-Rocquencourt April 2014 to September 2014

- Topic: *QuickChick: A Coq Framework For Verified Property Based Testing*
- Advisor: Cătălin Hriţcu
- Team: Prosecco

Workshop Talks

A Coq Framework For Verified Property-Based Testing (Extended Abstract).
Zoe Paraskevopoulou, Catalin Hritcu, Maxime Dénès, Leonidas Lampropoulos and Benjamin C. Pierce. CoqPL 2015.

QuickChick: Property-Based Testing for Coq.
Maxime Dénès, Catalin Hritcu, Leonidas Lampropoulos, Zoe Paraskevopoulou and Benjamin C. Pierce. The 6th Coq Workshop. July 2014.

Scholarships and Awards

Selected for **scholarship** for attending PLMW at POPL 2015. 2014

INRIA-MPRI Scholarship 2014
1 year scholarship for attending the MPRI program.

Scholarship for attending Applied Functional Programming in Haskell Summer School, Utrecht University, Netherlands. 2013

Other Courses

Summer School on Applied Functional Programming in Haskell — August 2013
Utrecht University, Netherlands.

Certificates of accomplishment for the following **Online Courses**:

- Cryptography I — March 2013
  provided by Standford University through Coursera Inc.
- Software as a Service — November 2012
  provided by BerkeleyX through edX

Notable Student Projects

Lambda Calculus Interpreter — November 2013
An interpreter for a typed lambda calculus variant featuring let and let-rec definitions, if-then-else construct, pairs, various arithmetic, boolean and relative operators, type inference and let-polymorphism. Implemented in Haskell in a team of 2 students.

Llama Compiler — October 2013
A compiler for an OCaml-like language with pattern matching, type inference, higher-order functions and user defined data types. The compiler performs control flow graph, peephole and tail call optimizations. Developed in OCaml in a team of 3 students.

Advanced Topics in Database Systems Project — March 2013
A bibliographic report about security and cryptography in database systems, written in a team of 2 students.

Cryptography Project — January 2013
A library implementing basic operations on elliptic curves over prime fields, Elliptic Curve digital signature and Diffie-Hellman key exchange algorithms. Developed in Ocaml in a team of 2 students.

Database Systems Project — February 2012
Design and implementation of a database management system for a fictional airport, following the MVC pattern. Developed using MySQL, PHP, HTML and Javascript in a team of 2 students.

Computer Skills

Proof Assistants
Coq, SSReflect extension

Programming Languages
OCaml, Haksell, Prolog, C, Erlang, Unix Shell Scripting, Assembly (x86, AVR)

Other Tools and Frameworks
Git, LaTeX, Gnuplot, VIM, Emacs, Frama-C

Interests

Programming languages theory and implementation, computer security, static analysis, software testing and verification, formal methods, logic, cryptography

Languages

Greek Mother Tongue

English Proficient speaking and writing skills

French Elementary speaking and writing skills

Other Activities

Music studies at the National Conservatory of Athens.

Piano — September 2008 to present

Choral Conducting — September 2012 to June 2014

Theory of Harmonization — September 2011 to June 2014

Music Theory — September 2010 to June 2011