Zoe Paraskevopoulou

PERSONAL INFORMATION	**Date of birth**:	31 July 1990	**Webpage**:	zoep.github.io
	Citizenship:	Greek	**Email**:	zoe.paraskevopoulou@princeton.edu

EDUCATION

PhD in Computer Science, Princeton University   SEPTEMBER 2015 TO PRESENT

    Area: Programming Languages

Master's Degree   SEPTEMBER 2014 TO SEPTEMBER 2015

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

    Level: M2

    Specialization: Logics and Semantics of Programs

    Thesis: *Self-Adgusting Computation for CostIt*, Grade: 19/20

    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

RESEARCH EXPERIENCE

Research Internship at Max Planck Institute of Software Systems   MARCH 2015 TO AUGUST 2015

- Topic: *Self-Adjusting Computation for CostIt*
- Advisor: Deepak Garg

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

PUBLICATIONS

Foundational Property-Based Testing.
Zoe Paraskevopoulou, Catalin Hritcu, Maxime Dénès, Leonidas Lampropoulos and Benjamin C. Pierce. In 6th International Conference on Interactive Theorem Proving (ITP), 2015.

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	**Stanley J. Seeger Hellenic Studies Prize**	2015
	KARY Award	2014
	Award for excellent academic performance for the academic year 2012-2013	
	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 Utrecht University, Netherlands.	August 2013

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

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

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.

Other Activities

Music studies at the National Conservatory of Athens.

Piano	September 2008 to present
Chamber Music	September 2013 to June 2014
Choral Conducting	September 2012 to June 2014
Theory of Harmonization	September 2011 to June 2014
Music Theory	September 2010 to June 2011