

## Zoe Paraskevopoulou

### PERSONAL INFORMATION

**Date of birth:** 31 July 1990  
**Citizenship:** Greek

**Webpage:** [zoe.p.github.io](https://zoe.p.github.io)  
**Email:** [zoe.paraskevopoulou@princeton.edu](mailto: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-Adjusting Computation for CostL*, 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 Papaspourou, 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 CostL*
- 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 Hritcu
- 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	<b>Stanley J. Seeger Hellenic Studies Prize</b>	2015
	<b>KARY Award</b>	2014
	Award for excellent academic performance for the academic year 2012-2013	
	Selected for <b>scholarship</b> for attending PLMW at POPL 2015.	2014
	<b>INRIA-MPRI Scholarship</b>	2014
	1 year scholarship for attending the MPRI program.	
	<b>Scholarship</b> for attending Applied Functional Programming in Haskell Summer School, Utrecht University, Netherlands.	2013
OTHER COURSES	<b>Summer School</b> on <a href="#">Applied Functional Programming in Haskell</a> Utrecht University, Netherlands.	AUGUST 2013
	Certificates of accomplishment for the following <b>Online Courses</b> :	
	• Cryptography I provided by Stanford University through Coursera Inc.	MARCH 2013
	• Software as a Service provided by BerkeleyX through edX	NOVEMBER 2012
INTERESTS	Programming languages theory and implementation, logic, computer security, static analysis, software testing and verification, cryptography	
NOTABLE STUDENT PROJECTS	<b>Lambda Calculus Interpreter</b>	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.	
	<b>Llama Compiler</b>	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.	
	<b>Advanced Topics in Database Systems Project</b>	MARCH 2013
	A bibliographic report about security and cryptography in database systems, written in a team of 2 students.	
	<b>Cryptography Project</b>	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.	
	<b>Database Systems Project</b>	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.	
	<b>Piano</b>	SEPTEMBER 2008 TO PRESENT
	<b>Chamber Music</b>	SEPTEMBER 2013 TO JUNE 2014
	<b>Choral Conducting</b>	SEPTEMBER 2012 TO JUNE 2014
	<b>Theory of Harmonization</b>	SEPTEMBER 2011 TO JUNE 2014
	<b>Music Theory</b>	SEPTEMBER 2010 TO JUNE 2011