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

Advisor: Andrew Appel

Master's Degree, *Summa Cum Laude* — September 2014 to September 2015

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

Specialization: Logics and Semantics of Programs

Ranked 7th out of 61 students

Thesis: *Self-Adjusting Computation for CostIt*

Engineering Diploma, *Magna Cum Laude* — 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*

Research Experience

Research Internship at Facebook Research — June 2019 to August 2019

- Topic: Extracting certified code from Coq to Rust
- Team: Libra

Research Internship at Microsoft Research Redmond — June 2018 to August 2018

- Topic: *Layered DSLs for Verified Cryptography*
- Team: RiSE

Research Internship at Microsoft Research Redmond — June 2017 to August 2017

- Topic: *Optimizing an interpreter by selective native compilation*
- Team: RiSE

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

Scholarships and Awards

Stanley J. Seeger Hellenic Studies Prize — 2015

Thomaidio Award — 2015
For ranking first among the students of my class at NTUA ECE department during the academic year 2012-2013

KARY Award — 2014
NTUA award for excellent academic performance for the academic year 2012-2013

INRIA-MPRI Scholarship — 2014
1 year fellowship to attend the MPRI master's program.

Scholarship to attend Applied Functional Programming in Haskell Summer School, Utrecht University, Netherlands. 2013

Publications

Closure Conversion is Safe for Space.
Zoe Paraskevopoulou, and Andrew Appel. In ACM SIGPLAN International Conference on Functional Programming (ICFP), 2019.

Meta-F: Proof Automation with SMT, Tactics, and Metaprograms.*
Guido Martínez, Danel Ahman, Victor Dumitrescu, Nick Giannarakis, Chris Hawblitzel, Cătălin Hriţcu, Monal Narasimhamurthy, Zoe Paraskevopoulou, Clément Pit-Claudel, Jonathan Protzenko, Tahina Ramananandro, Aseem Rastogi, and Nikhil Swamy. In European Symposium on Programming (ESOP), 2019.

Generating Good Generators for Inductive Relations.
Leonidas Lampropoulos, Zoe Paraskevopoulou, and Benjamin Pierce. In ACM SIGPLAN Symposium on Principles of Programming Languages (POPL), 2018.

A type theory for incremental computational complexity with control flow changes.
Ezgi Cicek, Zoe Paraskevopoulou, and Deepak Garg. In ACM SIGPLAN International Conference on Functional Programming (ICFP), 2016.

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 Papers

CertiCoq: A verified compiler for Coq (Extended Abstract).
Abhishek Anand, Andrew Appel, Greg Morrisett, Zoe Paraskevopoulou, Randy Pollack, Olivier Savary Belanger, Matthieu Sozeau, and Matthew Weaver. To appear in CoqPL 2017.

Making our Own Luck: A Language for Random Generators (Extended Abstract) .
Leonidas Lampropoulos, Benjamin C. Pierce, Cătălin Hriţcu, John Hughes, Zoe Paraskevopoulou, and Li-yao Xia. PPS 2016.

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.

Other Courses and Seminars

Dagstuhl Seminar: Secure Compilation. Invited participant. May 2018

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

Service

Program Committee ML 2019

External Review Committee, ICFP 2019

Program Committee, TyDe 2018

Program Committee, OCaml 2017

Artifact Evaluation Committee, POPL 2017

Research Interests

Programming languages theory and implementation, verified compilation, logic, software testing and verification