

Ioana Domnina Cristescu

# Curriculum vitae

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## Education

- *Bachelor*. Computer science, english section, Technical University of Cluj Napoca, Romania. **2006–2010**
- *Master*. Foundations of Computer Science, ENS Lyon, France. **2010–2012**
- *Phd thesis*. Phd under the supervision of Daniele Varacca and Jean Krivine at PPS laboratory, Paris 7 University. **2012–2015**
- *Post-Doctoral internship (on going)*. Walter Fontana Laboratory, Harvard Medical School. **2016–2018**

## Internships

- *Internship during bachelor at ENS Lyon under the supervision of Daniel Hirschhoff*. Algorithm for rewriting a CCS process in a normal form and its implementation in Caml. **june–september 2009**
- *Internship Master 1 at ENS Lyon under the supervision of Daniel Hirschhoff*. Typing and Subtyping for the Termination of Mobile Processes. **march–june 2011**
- *Internship Master 1 at Queen Mary University of London under the supervision of Jules Villard*. Integrating Arrays in Heap Hop, a tool based on separation logic. **june–july 2011**
- *Internship Master 2 at University Paris 7 under the supervision of Jean Krivine and Daniele Varacca*. Reversibility in the  $\pi$ -calculus. **march–july 2012**
- *Internship during Phd at Southampton University, UK, under the supervision of Pawel Sobocinski*. A self assembly operational semantics. **june–september 2014**

## Phd Thesis

*Operational and denotational semantics for the reversible  $\pi$ -calculus* under the supervision of Jean Krivine and Daniele Varacca, defended on the **20 Novembre 2015** to the following jury :

Ilaria Castellani	(examiner)
Pierre-Louis Curien	(examiner)
Jean Krivine	(Phd supervisor)
Iain Phillips	(reviewer)
Damien Pous	(reviewer)
Daniele Varacca	(Phd supervisor)
Glynn Winskel	(reviewer)

## Papers

### Conferences

- *Reversible  $\pi$ -calculus*, with Daniele Varacca and Jean Krivine, *LICS 2013*
- *Rigid families for CCS and the  $\pi$ -calculus*, with Daniele Varacca and Jean Krivine, *ICTAC 2015*
- *Rigid families for the reversible  $\pi$ -calculus*, with Daniele Varacca and Jean Krivine, *RC 2016*

## Workshops

- *Termination in a  $\pi$ -calculus with Subtyping*, with Daniel Hirschhoff, *EXPRESS 2011*
- *Reversible Barbed Congruence on Configuration Structures*, with Clement Aubert, *ICE 2015*

## Journals

- *Termination in a  $\pi$ -calculus with Subtyping*, with Daniel Hirschhoff, *MSCS, Vol 26, Issue 8, 2016*
- *Contextual Equivalences on Configuration Structures*, with Clement Aubert, *JLAMP, Vol 86, Issue 1, 2017*

## Scholarships

- Ampère Scholarship Ens Lyon, *2011* and *2012*.
- ACM-Women Scholarship *2013*.
- FSMP (Fondation Sciences Mathématiques de Paris) grant for phd students mobility *2014*.

## Other Projects

- Bachelor thesis, entitled *A Record-and-Replay Fault Tolerant System for Multithreading Applications*. The project consisted in the development of a kernel module for the restart of a system after a failure and its implementation in UNIX.
- Participation at the *Digilent design contest 2010*, Cluj Napoca, Romania, with a project consisting in a system for reading text aloud implemented on microcontrollers.

## Teaching

I have been in charge from 2013 to 2015 of exercise classes and lab sessions at University Paris 7 for the first and second year in the computer science track.

- *Principles of computing for binary machines 2015* : 72h.
- *Introduction to algorithms 2014* : 26h.
- *Principles of computing for binary machines 2013* : 33h.
- *Introduction to C 2013* : 52h.
- *Programming Project 2012* : 12h.

## Skills

- Fluent in english, french and romanian.
- Programming ability in Caml, Coq, Erlang, C, Java, Javascript, VHDL, PHP, Lisp, SQL.