

# Erika De Benedetti

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## Education

**October 6, 2009:** Bachelor Degree in Computer Science,  
Università degli Studi di Torino,  
Thesis title: "A typing system for studying the properties of cells"  
Supervisor: Maddalena Zacchi  
Graduation mark: 110/110 cum Laude

**October 6, 2011:** Master Degree in Computer Science,  
Università degli Studi di Torino,  
Thesis title: "Polynomial lambda-calculus via intersection types"  
Supervisor: Simona Ronchi Della Rocca  
Examiner: Luca Roversi  
Graduation mark: 110/110 cum Laude, dissertation recommended for publication

**February 10, 2015:** Italian/French PhD in Computer Science,  
Università degli Studi di Torino - ENS de Lyon (joint supervision),  
Thesis title: "Linear logic, type assignment systems and implicit computational complexity"  
Supervisors: Patrick Baillot and Simona Ronchi Della Rocca  
Examiners: Ugo Dal Lago and Jean-Yves Marion  
Jury: Patrick Baillot  
Ugo Dal Lago  
Delia Kesner (president)  
Jean-Yves Marion  
Simona Ronchi Della Rocca  
Aleksy Schubert

## Position

Research grant at Dipartimento di Informatica, Università degli Studi di Torino.

**January 1, 2015 - present.**

PhD student in a 3-years joint PhD programme (*cotutelle*) between the Dipartimento di Informatica (Università degli Studi di Torino) and the Laboratoire de l'Informatique du Parallélisme, under the supervision of Simona Ronchi Della Rocca and Patrick Baillot.

**January 1, 2012 - December 31, 2014.**

## Fields of Research Interest

Implicit Computational Complexity, linear logic, lambda-calculus, type assignment systems, intersection types.

## Conference and Workshop Papers

- [BDBRDR14] Patrick Baillot, Erika De Benedetti, and Simona Ronchi Della Rocca. Characterizing polynomial and exponential complexity classes in elementary lambda-calculus. In Josep Diaz, Ivan Lanese, and Davide Sangiorgi, editors, *Theoretical Computer Science - 8th IFIP TC 1/WG 2.2 International Conference, TCS 2014, Rome, Italy, September 1-3, 2014. Proceedings*, volume 8705 of *Lecture Notes in Computer Science*, pages 151–163. Springer, 2014.
- [DBRDR13] Erika De Benedetti and Simona Ronchi Della Rocca. Bounding normalization time through intersection types. In Stéphane Graham-Lengrand and Luca Paolini, editors, *Proceedings Sixth Workshop on Intersection Types and Related Systems, ITRS 2012, Dubrovnik, Croatia, 29th June 2012.*, volume 121 of *EPTCS*, pages 48–57, 2013.
- [DBRDR14] Erika De Benedetti and Simona Ronchi Della Rocca. A type assignment for lambda-calculus complete both for FPTIME and strong normalization. *Information & Computation*, (to appear), 2014.

## Informal and Other Publications

- [DB11] Erika De Benedetti. Polynomial lambda-calculus via intersection types. Master’s thesis, Università degli Studi di Torino, 2011.
- [DB15] Erika De Benedetti. *Liner logic, type assignment systems and implicit computational complexity*. PhD thesis, Università degli Studi di Torino - ENS de Lyon, February 2015.

## Conference and Seminar Presentations

“A complete polynomial lambda-calculus”

Workshop DICE 2012, Tallinn - March 31, 2012.

Plume team meeting at LIP, ENS de Lyon - June 11, 2012.

Conference ICTCS 2012, Verona - September 20, 2012.

“Bounding normalization times through intersection types”

Workshop ITRS 2012, Dubrovnik - June 29, 2012.

“ELL revisited for polynomial time and an exponential time hierarchy” (work by Patrick Baillot)

Lambda-group meeting at Dipartimento di Informatica, Università di Torino - October 26, 2012.

“Characterizing polynomial and exponential complexity classes in elementary lambda-calculus”

Plume team meeting at LIP, ENS de Lyon - June 24, 2013 (part 1).

Plume team meeting at LIP, ENS de Lyon - March 31, 2014 (part 2).

Workshop DICE 2014 (Grenoble) - April 5, 2014.

Conference TCS 2014 (Roma) - September 2, 2014.

## Organizing Activity

I was a member of the organizing committee of CSL (Computer Science Logic) 2013, the annual meeting of the European Association for Computer Science Logic, held in Torino from the 1st to the 6th of September 2013.

## Teaching Activity

Tutoring position for the course “Programmazione I e II”, a.a. 2013/2014 (50 hours), at Dipartimento di Informatica, Università di Torino.

## Honors, Awards, & Fellowships

Optime Award by the City of Torino for best results achieved in master thesis in 2010/2011

Silver Medal awarded by University of Torino for best master thesis in computer science 2010/2011.

Last updated: February 12, 2015