

# Ornela Dardha

## Curriculum Vitae

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### Personal Data

Name Ornela Dardha  
Date of birth 03/04/1985  
Place of birth Berat, Albania  
Citizenship Albanian  
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### Education

August 2015 - Current **Research Associate**, *School of Computing Science, University of Glasgow.*  
Working with Simon J. Gay on the UK EPSRC project *From Data Types to Session Types: A Basis for Concurrency and Distribution (ABCD)* (EP/K034413/1).

January 2014 - August 2015 **Research Assistant**, *School of Computing Science, University of Glasgow.*  
Working with Simon J. Gay on the UK EPSRC project *From Data Types to Session Types: A Basis for Concurrency and Distribution (ABCD)* (EP/K034413/1).

January 2011 - December 2013 **PhD in Computer Science**, *University of Bologna.*  
Advisor: Davide Sangiorgi.  
PhD thesis title: *Type Systems for Distributed Programs: Components and Sessions.*  
PhD thesis defence date: 19 May 2014.

2008-2010 **Laurea degree (MSc equivalent) in Computer Science**, *Sapienza University of Rome.*  
Final grade: 110/110 "summa cum laude".  
Thesis title: *Semantic Subtyping for Object-Oriented Languages.*  
Supervisor: Daniele Gorla.

- 2004-2007 **Laurea degree (BSc equivalent) in Computer Science**, *Sapienza University of Rome*.  
Final grade: 110/110 "summa cum laude".  
Thesis title: *A new type system for information flow*.  
Supervisor: Pietro Cenciarelli.
- 2000-2004 **Diploma**, *High school "Kristaq Capo"*, Berat, Albania.  
Final grade: 10/10.

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## Research Projects

- Current **ABCD**, Member of the UK EPSRC project *From Data Types to Session Types: A Basis for Concurrency and Distribution (ABCD)* (EP/K034413/1)..  
<http://groups.inf.ed.ac.uk/abcd/>
- Current **BETTY**, Member of the European COST Action on Behavioural Types for Reliable Large-Scale Software Systems.  
[http://www.cost.eu/domains\\_actions/ict/Actions/IC1201](http://www.cost.eu/domains_actions/ict/Actions/IC1201)
- January, 2011 - December, 2013 **FOCUS Research Team**, Member of Foundations of Component-based Ubiquitous Systems (FOCUS), a joint research team between INRIA, France and University of Bologna, Italy..  
<http://focus.cs.unibo.it/bin/view>

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## Teaching and Invited Lectures

- June 27-July 1, 2016 **Introduction to Session Types**, *BETTY Summer School 2016*, Limassol, Cyprus.  
Invited lecturer at the 2nd BETTY Summer School. Organized by COST Action IC1201: Behavioural Types for Reliable Large-Scale Software Systems (BETTY).  
<http://summerschool2016.behavioural-types.eu>
- August 3-5, 2015 **Session Types**, *SICSA Summer School on Practical Types 2015*, University St.Andrews, St.Andrews, UK.  
Invited lecturer at the SICSA Summer School on Practical Types 2015.  
<https://eb.host.cs.st-andrews.ac.uk/PracticalTypes/>

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## Visiting Periods

- January - March, 2016 **Visiting Imperial College**, London, United Kingdom.  
Visiting Nobuko Yoshida at Imperial College and working on session types for AkkaTyped, an actor framework of Scala language. This is a joint work also with Alceste Scalas and Raymond Hu.
- September 20-26, 2014 **Visiting the University of Groningen**, Groningen, The Netherlands.  
Visiting Jorge A. Perez at the University of Groningen in the Netherlands to work on research paper.

November 2012 - **Visiting the IT University of Copenhagen**, Copenhagen, Denmark.  
November 2013 PhD visiting abroad period at the ITU working with Marco Carbone on session types and progress/lock freedom properties, and their relation to standard  $\pi$ -calculus types. This is a joint work also with Fabrizio Montesi.

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## Invited Talks and Presentations

- September 9-11, 2015 **Type Systems for Distributed Programs: Components and Sessions**, *ICTCS*, Florence, Italy.  
Invited talk at the 16th Italian Conference of Theoretical Computer Science. Presentation of the PhD thesis and award ceremony for the Best Italian PhD thesis in Theoretical Computer Science 2015 given by the Italian Chapter of EATCS.
- May 19, 2015 **Type systems for distributed programs: Components and Sessions**, *University of Bologna*, Bologna, Italy.  
PhD thesis defence.
- September 8, 2012 **Session Types Revisited**, *ITU*, Copenhagen, Denmark.  
Invited talk at IT University of Copenhagen.
- February 2-3, 2012 **An Interpretation of Session Types**, *CoTiCo'12*, Lucca, Italy.  
Invited talk at the Workshop on Contracts and Behavioral Types.  
[https://cse.lab.imtlucca.it/mediawiki/index.php/CoTiCo\\_2012](https://cse.lab.imtlucca.it/mediawiki/index.php/CoTiCo_2012)
- September 15-17, 2010 **Semantic Subtyping for Objects and Classes**, *PPPJ'10*, Vienna, Austria.  
Poster at the 8th International Conference on the Principles and Practice of Programming in Java.  
<http://www.complang.tuwien.ac.at/pppj10/>
- September 10, 2010 **Semantic Subtyping for Objects and Classes**, *University of Bologna*, Bologna, Italy.  
Invited talk at the Computer Science Department at University of Bologna.

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## PhD schools and Participations

- August 23-28, 2015 **Heidelberg Laureate Forum**, Heidelberg, Germany.  
Attended the 3rd Heidelberg Laureate Forum.  
<http://www.heidelberg-laureate-forum.org>
- June 30-July 4, 2014 **BETTY Summer School**, Lovran, Croatia.  
Attended the 1st International Summer School on Behavioural Types.  
<http://summerschool2014.behavioural-types.eu>
- September 24-28, 2012 **HATS-FMOC**, Bertinoro, Italy.  
Attended the 1st International PhD Summer School on Formal Models for Components and Objects.  
<http://www.cs.unibo.it/hats-fmoc/>

- April 15-18, 2012 **Milner Symposium**, Edinburgh, UK.  
 Attended the celebration of the life and work of one of the world's greatest computer scientists, Robin Milner.  
<http://events.inf.ed.ac.uk/Milner2012/index.html>
- June 16-July 1, 2011 **OPLSS Summer School**, Eugene, Oregon.  
 Attended the 10th Annual Oregon Programming Languages Summer School: Types, Semantics and Verification.  
<http://www.cs.uoregon.edu/Activities/summerschool/summer11/>
- May 31, 2011 **Programming Languages Day**, INRIA, Sophia-Antipolis, France.  
 Attended the programming languages day at INRIA Sophia-Antipolis.
- March 7-18, 2011 **BICI BiSS Spring School**, Bertinoro, Italy.  
 Attended the 17th Bertinoro international Spring School.  
<http://www.bici.eu/biss2011/>
- June 27-July 2, 2010 **BICI Swing Summer School**, Bertinoro, Italy.  
 Attended the 5th Bertinoro PhD School on Security of Wireless Networking.  
<http://swing10.di.uniroma1.it/>
- March 15-18, 2007 **The Festival of Mathematics**, Rome, Italy.  
 Attended the 1st edition of the festival of mathematics: the beauty of the numbers and the numbers of the beauty.  
<http://www.auditorium.com/>

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## Scholarships and Grants

- 2015 **PECE bursary**, SICSA.  
 Postdoctoral and Early Career Researcher Exchange (PECE) bursary awarded by The Scottish Informatics and Computer Alliance (SICSA) for visiting Nobuko Yoshida at Imperial College, London in the period of January – March 2016.  
<http://www.sicsa.ac.uk/funding/academics-postdoctoral-researchers/individual-research-funding/research-exchanges-pece/>
- 2013 **ETAPS Student Grant**.  
 PhD student grant offered by ETAPS to cover expenses of the conference.
- 2012 **Marco Polo Scholarship**, *Dipartimento di Informatica Scienza e Ingegneria, University of Bologna*.  
 Scholarship offered by the University of Bologna to cover 6 months of PhD visit abroad period at the IT University of Copenhagen.
- 2011 **PhD Scholarship**, *Dipartimento di Informatica Scienza e Ingegneria, University of Bologna*.  
 A 3-years scholarship offered by the University of Bologna for covering the PhD program.
- 2007-2010 **CS Department Scholarship**, *Department of Computer Science, Sapienza University of Rome*.  
 Scholarship given by the Computer Science Department for working as students support staff at the CS Labs.

2004-2010 **University scholarship.**  
Scholarship given by Laziodisu Sapienza University of Rome on academic merits. The scholarship covered my bachelor and master programs expenses.

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## Awards

- 2015 **Best Italian PhD Thesis in Theoretical Computer Science.**  
Best Italian PhD Thesis in Theoretical Computer Science 2015 awarded by the Italian Chapter of the European Association of Theoretical Computer Science (EATCS).  
<http://www.eatcs.org/index.php/italian-chapter-awards>  
<https://www.eatcs.org/images/it/achievement/pagina.htm>
- 2008 **BSc Award.**  
BSc Award offered by Laziodisu Sapienza University of Rome on academic merits and graduation with honours.

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## Language Skills

Albanian **Native**  
Italian **Fluent**  
English **Fluent**

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## Research Areas of Interest

Concurrency, Process Algebras  
Programming Languages, Semantics  
Formal Methods, Type Systems  
Behavioural Types, (Multiparty) Session Types  
Distributed Systems, (based on) Evolvable Components

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## Conference and Workshop Organisation

- June 18, 2014 **SPLS**, Glasgow, Scotland.  
Co-organiser and attendee of the summer meeting of the Scottish Programming Languages Seminar.  
<http://dcs.gla.ac.uk/~natalia/spls/>
- May 8, 2014 **CoCo**, Loch Lomond, Scotland.  
Co-organiser and attendee of the first Communication-based Computation meeting.  
<http://www.dcs.gla.ac.uk/coco/>
- March 16-24, 2013 **ETAPS 2013**, Rome, Italy.  
Student Volunteer at the 16th European Joint Conferences on Theory and Practice of Software.  
<http://www.etaps.org/>

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## PC Membership

- August 22, 2016 **EXPRESS / SOS 2016**, Quebec, Canada.  
<http://express-sos2016.cs.vu.nl>
- June 28, 2016 **SICSA PhD Conference, Posters 2016**, Glasgow, United Kingdom.  
<http://sicsaconf.org/2016/>
- June 8-9, 2016 **ICE 2016**, Heraklion, Greece.  
<http://2016.discotec.org>
- April 8, 2016 **MSFP 2016**, Eindhoven, The Netherlands.  
<http://msfp2016.bentnib.org>
- June 5, 2015 **ICE 2015**, Grenoble, France.  
<http://discotec2015.inria.fr/workshops/ice-2015/>
- April 18, 2015 **PLACES 2015**, London, United Kingdom.  
<http://places15.by.di.fc.ul.pt>
- June 6, 2013 **ICE 2013**, Florence, Italy.  
<http://www.discotec.org/workshops/ice2013/>

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## Publications

- [BDGK14] Giovanni Bernardi, Ornella Dardha, Simon J. Gay, and Dimitrios Kouzapas. On duality relations for session types. In *TGC*, volume 8902 of *Lecture Notes in Computer Science*, pages 51–66. Springer, 2014.
- [CDM14] Marco Carbone, Ornella Dardha, and Fabrizio Montesi. Progress as compositional lock-freedom. In *COORDINATION*, pages 49–64, 2014.
- [Dar14a] Ornella Dardha. Recursive session types revisited. In *Proceedings Third Workshop on Behavioural Types, BEAT 2014, Rome, Italy, 1st September 2014.*, pages 27–34, 2014.
- [Dar14b] Ornella Dardha. *Type Systems for Distributed Programs: Components and Sessions*. Thesis, Università degli studi di Bologna, May 2014.
- [Dar15] Ornella Dardha. Type systems for distributed programs: Session communication. *Bulletin of the EATCS*, 117:70–99, 2015.
- [DGL13] Ornella Dardha, Elena Giachino, and Michael Lienhardt. A type system for components. In *SEFM*, pages 167–181, 2013.
- [DGS12] Ornella Dardha, Elena Giachino, and Davide Sangiorgi. Session types revisited. In *PPDP*, pages 139–150, 2012.
- [DGV10] Ornella Dardha, Daniele Gorla, and Daniele Varacca. Semantic subtyping for objects and classes. Poster at PPPJ’10, 2010.

- [DGV13] Ornela Dardha, Daniele Gorla, and Daniele Varacca. Semantic subtyping for objects and classes. In *FORTE/FMOODS*, pages 66–82, 2013.
- [DP15] Ornela Dardha and Jorge A. Pérez. Comparing deadlock-free session typed processes. In *EXPRESS/SOS*, pages 1–15, 2015.