

# Matteo Sammartino

## Personal Information

Born: Catania, Italy, 10/11/1984  
Citizenship: Italian  
Email: [m.sammartino@ucl.ac.uk](mailto:m.sammartino@ucl.ac.uk)  
Job title: Research Associate  
Affiliation: University College London  
Webpage: <http://matteosammartino.wordpress.com>  
[Google Scholar Page](#)      [DBLP page](#)

## Language

Italian native language  
English fluent

## Research Interests

- Formal Semantics of programming languages
- Algebraic and coalgebraic specification
- Process calculi and Petri nets
- Infinite-state models of computation
- Modal logic and model-checking
- Automata learning

## Education

- 1/2010- **PhD in Computer Science**, *University of Pisa*, Italy.  
12/2013 *Thesis title*: A Network-Aware Process Calculus for Global Computing and its Categorical Framework  
*Supervisor*: Prof. Ugo Montanari  
*Topic*: concurrent models of computations over networks with dynamic topology
- 5/2009- **Scholarship in the EU FP6 Project SENSORIA**, *University of Pisa*, Italy.  
12/2009 *Topic*: Semantics of systems with dynamic allocation and de-allocation of resources
- 1/2007- **Master's degree in Computer Science**, *University of Pisa*, Italy.  
4/2009 *Thesis title*: Saturated Transition Systems for Presheaf Models  
*Supervisor*: Prof. Ugo Montanari  
*Graduation mark*: 110/110 cum laude
- 9/2003- **Bachelor's degree in Computer Science**, *University of Pisa*, Italy.  
12/2006 *Thesis Title*: Un approccio innovativo ai problemi di flusso multicommodity basato sulla lagrangiana aumentata (An innovative approach to multicommodity flow problems based on augmented lagrangian)  
*Supervisor*: Prof. Antonio Frangioni  
*Graduation mark*: 110/110 cum laude

## Employment history

- 1/2016-present **Research Associate**, *Computer Science Department, UCL, UK.*  
Duties: scientific research, supervision of students
- 1/2015-12/2015 **Postdoc researcher**, *Institute for Computing and Information Sciences, Radboud University, Nijmegen, The Netherlands.*  
Funded by the NWO project *Practical Coinduction*
- 1/2013 - 12/2014 **Research fellow**, *Computer Science Department, University of Pisa, Italy.*  
Funded by the EU FP7 Project *ASCENS*  
*Topic: Resource-based process calculi for global computing*

## Additional education and training

- 5/2017 **“Introduction to Research Student Supervision” course**, *UCL.*  
The course provides an introduction to regulations, procedures, skills development, and other aspects of Doctoral Students supervision at UCL.

## Participation in Research Projects

- Dutch NWO project *Practical Coinduction*
- EU FP7 Project *ASCENS*
- EU FP6 Project *SENSORIA*
- Italian MIUR Project *CINA (PRIN 2010)*
- Italian MIUR Project *IPODS (PRIN 2008)*

## Invitation to Conferences

- 3/2016 **Bellairs Workshop**, *McGill University, Barbados.*

## Visiting positions

- 10/2016-11/2016 **Visiting researcher**, *Simons Institute for the Theory of Computing, Berkeley, CA, USA.*  
Participant in the program *Logical Structures in Computation*

## International collaborations

- Byron Cook and Paul Subotic, Amazon UK
- Ugo Montanari, Fabio Gadducci, Roberto Bruni and Giacomina Valentina Monreale, University of Pisa, Italy
- Vincenzo Ciancia, ISTI-CNR Pisa, Italy
- Joshua Moerman, Radboud University, The Netherlands
- Bartek Klin and Michał Szyrwelski, Warsaw University, Poland
- Nicklas Hoch, Volkswagen Corporate Research Group, Germany
- Alain Tcheukam, New York University, United Arab Emirates

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## Talks

### Invited

- 2017 **Learning Nominal Automata**, *RISE Seminar Cycle*, IST Austria, Vienna, Austria.

### International conferences and workshops

- 2017 **CALF: Categorical Automata Learning Framework.**, *LiVe (Learning in Verification)*, Uppsala, Sweden.
- 2017 **Learning Nominal Automata.**, *POPL (Principles of Programming Languages)*, Paris, France.
- 2015 **Dynamic Programming on Nominal Graphs.**, *GaM (Graph as Models)*, London, UK.
- 2014 **A Class of Automata for the Verification of Infinite, Resource-Allocating Behaviours.**, *TCG (Trustworthy Global Computing)*, Rome, Italy.
- 2012 **Network-Conscious  $\pi$ -calculus: a Concurrent Semantics.**, *MFPS (Mathematical Foundations of Programming Semantics)*, Bath, UK.

### Seminars

- 2017 **CALF: Categorical Automata Learning Framework**, *6th South of England Regional Programming Language Seminar (S-REPLS)*, UCL, London, UK.
- 2016 **Learning Nominal Automata**, *Logic Lounge Cycle*, Simons Institute for the Theory of Computing, Berkeley, CA, USA.
- 2015 **A Coalgebraic Semantics for Causality in Petri Nets**, *Brouwer Seminar Cycle*, Radboud University, Nijmegen, The Netherlands.
- 2014 **Presheaf Models for Nominal Calculi.**  
Given at:
  - ENS Lyon, France
  - Aarhus University, Denmark
  - Radboud University, Nijmegen, The Netherlands, in the *Brouwer Seminar Cycle*
- 2010-2014 **Several seminars at CINA and ASCENS project meetings and workshops.**

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## Organisation/Administration

### Organisation of conferences/workshops

- 2018 **2nd Workshop on Learning and Automata (LearnAut)**, *Oxford, UK.*  
Affiliated with LICS 2018

### Other

- 2017-present **Main administrator of the Categorical Automata Learning Framework research programme website**, *UCL.*  
[www.calf-project.org](http://www.calf-project.org)
- 2010-2013 **Organiser of the Mauriana Pesaresi seminars for Computer Science PhD students**, *University of Pisa.*
- 2010-2014 **Involved in the organisation of meetings and events of research projects.**

## Teaching activity

2015 **Instructor**, *Radboud University*, Nijmegen, The Netherlands.

*Course*: Algorithms and Data Structures

*Duties*: contributed to the design of the course, delivered some of the lectures, prepared weekly assignments for students.

## Supervision of students

2/2017- **Maverick Chardet**, *Master's student*, ENS Lyon.

5/2017 M2 internship supervision.

9/2016- **Gerco van Heerdt**, *Ph.D. student*, UCL.

present Ph.D. supervision at UCL.

## Other professional activities

### Committee memberships

RADICAL 2017 Program Committee, POPL 2017 Artifact Evaluation Committee.

### Journal reviews

Scientific Annals of Computer Science, Science of Computer Programming (Elsevier), Service Oriented Computing and Applications (Springer), Fundamenta Informaticæ.

### Conference reviews

MFCS 2017, CALCO 2017, FORTE 2017, FOSSACS 2017, FORTE 2016, CONCUR 2015, LICS 2015, FSEN 2015, COORDINATION 2014, ICALP 2014, PDP 2014, LATA 2014, WRLA 2014, APLAS 2014, FORTE 2012, TCS 2012.