Curriculum Vitae of Catuscia Palamidessi

http://www.lix.polytechnique.fr/~catuscia/

January 6, 2019

1 Personal data

Family name: Palamidessi
First name: Catuscia
Born: in Fucecchio (FI), Italy
Citizenship: Italian
Residence: France
Family status: Married, two children

1.1 Scientific interests

1.2 Education


2 Academic positions

• (From Jan. 2011) Director of Research DR1 at INRIA. INRIA Saclay, Orsay, France.
• (Sept. 2002 - Dec. 2010) Director of Research DR2 at INRIA. INRIA Saclay, Orsay, France.
• (Jan. 1998 - Aug. 2002) Full Professor in Computer Science and Engineering, Dept. of Computer Science and Engineering, PSU, USA.
• (Nov. 1994 - Dec. 1997) Full Professor in Computer Science, Dept. of Computer Science, Università di Genova, Italy.
• (Nov. 1992 - Oct. 1994) Associate Prof. in in Computer Science, Dept. of Computer Science, Università di Genova, Italy.
• (May 1988 - Oct. 1992) Assistant Prof. in in Computer Science, Dept. of Computer Science, Università di Pisa, Italy.

2.1 Visiting positions

3 Professional activity

3.1 Chair of international conferences

- PC co-chair of QEST 2011. 8th International Conference on Quantitative Evaluation of SysTems. Aachen, Germany, August 2011.

3.2 Organization of workshops, schools, and other events

- Organizer of the session on security and mobility at the DigiCosme Research Day, 10 July 2013.
- Coordinator of the workshops committee of LICS 2000, Santa Barbara, California, June 2000.
- Co-organizer (with Joachim Parrow) of EXPRESS’97, Santa Margherita Ligure, Italy, September 1997.
- Coordinator for the post-conference workshops of the ICLP’94, Santa Margherita Ligure, Italy, June 1994.
- Co-organiser (with Jan Rutten) of the Workshop on Semantics of Functional, Logic and Object-Oriented Languages. (In the context of the ESPRIT BRA Project 3020 ”Integration”.) Molina di Quosa, Italy, Dec. 1989.
3.3 Executive and Steering Committees

- (2019-) Member of the Scientific Advisory Board of ANSSI, the French National Cybersecurity Agency.
- (2019-) Member of the Scientific Advisory Board of CISPA, the Helmholtz Center for Information Security.
- (2016-) Member of the Steering Committee of CONCUR, the International Conference in Concurrency Theory.
- (2015-) Member of the Steering Committee of EACSL, the European Association for Computer Science Logics.
- (2014-) Member of the Executive Committee of SIGLOG, the ACM Special Interest Group on Logic and Computation.
- (2014-18) Member of the Steering Committee of LICS, the ACM/IEEE Symposium on Logic in Computer Science.
- (2014-) Member of the Steering Committee of FORTE, the International Conference on Formal Techniques for Distributed Objects, Components, and Systems.
- (2005-) Member of the Steering Committee of ETAPS, the European Joint Conferences on Theory and Practice of Software.
- (2005-16) Member of the Council of EATCS, the European Association for Theoretical Computer Science.
- (2000-02) Member of the Steering Committee of FLoC’02, the 2002 Federated Logic Conference.
- (1999-02) Member of the Executive Committee of ALP, the Association of Logic Programming.
- (1998-01) Member of the Executive Board of EAPLS, the European Assoc. for Programming Languages and Systems.
- (1997-) Member of the Steering Committee of EXPRESS, the international workshop on Expressiveness in Concurrency.
- (1997-06) Member of the Steering Committee of the ACM SIGPLAN PPDP (Principles and Practice of Declarative Programming), formerly PLILP/ALP.
- (1997-00) Member of the Executive Committee of GULP, the Italian Association of Logic Programming.

3.4 Member of Scientific Associations

- (2010-) Member of the IFIP Working Group 1.7 – Theoretical Foundations of Security Analysis and Design.
- (2007-) Member of the IFIP Technical Committee 1. Foundations of Computer Science.
- (2005-) Member of the IFIP Working Group 1.8 – Concurrency Theory.
- (2001-14) Member of the IFIP Working Group 2.2 – Formal Description of Programming Concepts.

3.5 Editorial boards

- (2017-) Member of the Editorial Board of Proceedings on Privacy Enhancing Technologies (PoPETs), De Gruyter.
- (2015-) Member of the Editorial Board of Acta Informatica, Springer.
- (2014-) Member of the Editorial Board of LIPIcs: Leibniz International Proceedings in Informatics, Schloss Dagstuhl –Leibniz Center for Informatics.
- (2006-) Member of the Editorial Board of Mathematical Structures in Computer Science, Cambridge University Press.
- (2000-04) Member of the Advisory Board of the journal on Theory and Practice of Logic Programming, Cambridge University Press.
• (2000-) Member of the Editorial Board of the Electronic Notes of Theoretical Computer Science, Elsevier Science.
• (1998-00) Member of the Advisory Board of the Journal of Logic Programming, Elsevier Science (North-Holland).
• (1995-08) Member of the Editorial Board of the Journal of Functional and Logic Programming. Published electronically. Formerly published by The MIT Press.

3.6 Other editorial activity
• Co-editor (with Anca Muscholl and Anuj Dawar) of the special issue of Logical Methods in Computer Science dedicated to selected papers of ICALP 2017.
• Co-editor (with Alexandra Silva and Natarajan Shankar) of the special issue of Logical Methods in Computer Science dedicated to selected papers of LICS 2015 and LICS 2016.
• Co-editor of the special issue of Logical Methods in Computer Science dedicated to selected papers of DisCoTec 2014.
• Co-editor (with Erika Ábrahám) of the proceedings of FORTE 2014. LNCS 8461 Springer, 301 pages, 2014.
• Co-editor (with Sebastian Mödersheim and Konstantinos Chatzikokolakis) of the special issue of the Journal of Computer Security dedicated to selected papers of TOSCA 2011 and SecCo 2011.
• Co-editor (with Geoffrey Smith) of the special issue of Mathematical Structures in Computer Science dedicated to Quantitative Information Flow.
• Co-editor (with Samson Abramsky and Michael Mislove) of the special issue dedicated to selected papers of MFPS XXV. TCS 430, Pages 1-126, 2012.
• Co-editor (with Sebastian Mödersheim) of the proceedings of TOSCA 2011. LNCS 6993 Springer, Pages 1-225, 2011.
• Co-editor (with Daniele Gorla) of the special issue dedicated to selected papers of SecCo 2007. JCS 18(2), Pages 187-377, 2010.
• Co-editor (with Samson Abramsky and Michael Mislove) of the proceedings of MFPS XXV. ENTCS 249, Pages 1-490, 2009.
• Co-editor of the proceedings of SOFSEM’09. LNCS 5404 Springer, Pages 1-670, 2009.
• Co-editor (with Frank D. Valencia) of the proceedings of the LIX Colloquium on Emerging Trends in Concurrency Theory (LIX 2006), ENTCS 209 Pages 1-200, 2008.
• Co-editor (with Giuseppe Italiano) of the special issue dedicated to selected papers of ICALP 2005. TCS 380(1-2), Pages 1-218, 2007.
• Co-editor (with Daniele Gorla) of the proceedings of the 5th International Workshop on Security Issues in Concurrency (SecCo 2007), ENTCS 194 (1) Pages 1-84, 2007.
• Editor of the proceedings of ICLP 2003, LNCS 2916, Springer-Verlag. 2003.
• Editor of the special issue dedicated to selected papers of the IC-EATCS Advanced School on Models and paradigms for Concurrency. TCS 253(2). Elsevier Science. 2001.
• (2001-04) Area editor (for the area of Concurrency) of the ALP Newsletter. Published electronically.


• Editor of the Special Issue of the JFLP dedicated to selected papers of PLILP/ALP’98. Volume 1999.


• Co-editor (with Ilaria Castellani) of the proceedings of EXPRESS’98, Volume 16(2) of ENTCS, Elsevier Science. 1998.

• Co-editor (with Joachim Parrow) of the proceedings of EXPRESS’97, Volume 7 of ENTCS, Elsevier Science. 1997.

• Member of the Editorial Committee for the special issues of Computer Languages dedicated to the ICLP’94 Post-conference Workshops.

3.7 Program committee member for international conferences


• ICALP 2017 (Track B). The 44th International Colloquium on Automata, Languages, and Programming. Warsaw, Poland, 10-14 July 2017.
• CSR 2017. The 12th International Computer Science Symposium in Russia. Kazan, Russia, 8-12 June 2017.
• ICALP 2013. Track B. The 40th International Colloquium on Automata, Languages and Programming. Riga, Latvia, 8-12 July 2013.

• **CALCO 2011.** The 4th International Conference on Algebra and Coalgebra in Computer Science. Winchester, UK, August 2011.


• **CONCUR 08.** 19th International Conference on Concurrency Theory. Toronto, Canada. August 2008.


• **CONCUR 2006.** International Conference on Concurrency Theory. Bonn, Germany, August 2006.


• **CONCUR 2005.** International Conference on Concurrency Theory. San Francisco, California, USA, August 2005.

• **ESOP’05.** European Symposium on Programming. (Part of ETAPS 2005.) Edinburgh, Scotland, April 2005.


• **CONCUR 2002.**  International Conference on Concurrency Theory. Brno, Czech Republic, August 2002.


• **CSL’99.**  Int.l Annual Conf. on Computer Science Logic. Madrid, Spain, September 1999.


• **CP’98.**  Int.l Conf. on Principles and Practice of Constraint Programming. Pisa, Italy, October 1998.


• **CP’97.**  Int.l Conf. on Principles and Practice of Constraint Programming. Schloss Hagenberg, Austria, October 1997

• **ALP’97.**  Int.l Conf. on Algebraic and Logic Programming. Southampton, UK, September 1997.

• **ICLP’97.**  Int.l Conf. on Logic Programming. Leuven, Belgium, July 1997.

• **ALP’96.**  Int.l Conf. on Algebraic and Logic Programming. Aachen, Germany, September 1996.

• **CP’96.**  Int.l Conf. on Principles and Practice of Constraint Programming. Cambridge, MA, USA, August 1996.


3.8 **Program committee member for other meetings**

- PhDs in Logic VIII. Technische Universität Darmstadt, Germany, 9-11 May 2016.
- SecCo’09, the 7th International Workshop on Security Issues in Concurrency. Bologna, Italy, September 2009.


• **SB LP 2003.** Brazilian Symposium on Programming Languages. Ouro Preto, Brazil, May 2003.


• **SB LP 2002.** Brazilian Symposium on Programming Languages. Rio de Janeiro, Brazil, June 2002.


• **LP AR’99.** International Conference on Logic for Programming and Automated Reasoning. Tbilisi, Georgia, September 1999.


• **Int. Ws. on Logic Programming and Multi-Agents.** (In conj. with ICLP’97.) Leuven, Belgium, July 1997.

• **GULP-PRODE’95.** Italian-Spanish Joint Conf. on Logic Programming. Marina di Vietri, Italy, Sept 1995.


• **PASCO’94.** Conference on Parallel Symbolic Computation. Linz, Austria, September 1994.

• **GULP-PRODE’94.** Italian-Spanish Joint Conf. on Declarative Programming. Peniscola, Spain, Sept 1994.

### 3.9 Invited speaker at international conferences


• **ICTAC 2015** The 12th International Colloquium on Theoretical Aspects of Computing. Cali, Colombia, October 2015.


• **ICDCIT-2015** The 11th International Conference on Distributed Computing and Internet Technology. Bhubaneswar, India, February 2015.
3.10 Invited speaker at international workshops


3.11 Invited speaker at national conferences and workshops


3.12 Invited talks at other meetings

- Dagstuhl seminar on Quantitative and Qualitative Analysis of Network Protocols. Schloss Dagstuhl, Germany, 31 Jan - 5 Feb 2010.


• IFIP WG 2.2 - Formal Description of Programming Concepts. Udine, Italy, September 2006.

• IFIP WG 2.2 - Formal Description of Programming Concepts. Skagen, Denmark. August 31 - September 3, 2005.

• Workshop on Algebraic Process Calculi: The First Twenty Five Years and Beyond. Bertinoro, Italy, August 2005.


• IFIP WG 2.2 - Formal Description of Programming Concepts. Oldenburg, Germany. 13 - 14 September 2002.

• Logic and Interaction Weeks. CIRM, Marseille, February 2002.


• IFIP WG 2.2 - Formal Description of Programming Concepts. Oldenburg, Germany, September 2000.

• DIPLCL’99. Workshop on Distributed and Internet Programming with Logic and Constraint Languages, December 1999.


• 5th Compulog Net meeting on Language Design and Semantic Analysis Methods, Aachen, Germany, September 1996.

• Seminar on Expressiveness in Concurrency. IBFI Schloss Dagstuhl, Germany, September 1996.


• IFIP Working Group 2.2 - Programming Concepts, Methods and Calculi. San Miniato, Italy, June 1994.


• Workshop on Semantics of Concurrent Logic Languages. Eilat, Israel, June 1990.


3.13 Invited panelist

3.14 Dissemination of scientific knowledge

- Invited speaker at PLMW@POPL 2019, the Programming Logic Mentoring Workshop 2019 (affiliated to POPL 2019). This workshop aims at encouraging graduate students and senior undergraduate students to pursue careers in programming language research, and at educating them on the research career.

- Participation in the round table at the FLOC Women in Logic workshop, a workshop organized to encourage women’s presence in the logic community. Oxford, UK, 8 July 2018.

- Participation in the activities of Women in Logic. Reykjavik, Island, June 2017.

- Participation in the round table at the Logic Mentoring Workshop, an event organized to help young researchers to understand the technical and practical aspects of pursuing a career in academy. Reykjavik, Island, June 2017.

- Participation in a round table at CrossFyre 2017 to discuss initiatives to promote the access of women to research and academic career in Computer Science. Paris, April 2017.


- Organizer of the session on “Safe and reusable distributed programs” at the Digicosme Research Day. 10 July 2013.


3.15 Advising boards and referee activity

- (2019) Member of the panel for the Research Evaluation for Development 2019 (RED19) of the Department of Computer Science and Engineering at the University of Gothenburg, Sweden.

- (2018) Chair of the Nominating Committee for the 2019 renewal of the office holders of SIGLOG, the ACM Special Interest Group on Logic and Computation.


- (2018) Member of the evaluation panel for the program IKTPLUSS on Digital Security, Research Council of Norway.

- (2015-) Member of the committee for the Alonzo Church Award for Outstanding Contributions to Logic and Computation. In 2018 Palamidessi is the president of this committee.


- (2014) Member of the WWTF jury – selection committee for a tenure-track position at the Faculty of Informatics at the Vienna University of Technology.

- (2013) Member of the committee for the Ackermann Award 2013 : The EACSL outstanding dissertation award for logic in Computer Science.

- (2013-16) Member of the Swedish Research Council Committee for Computer Science, 2013. The main duty of this committee is to evaluate and select the grant applications.

- (2010) Member of the LICS 2011 Test Of Time Award Committee.

- (2010) Member of the committee for the promotion to full professor. KTH - Royal Institute of Technology. Stockholm, Sweden.

- (2010-) Member of the EAPLS PhD Award Committee.
• (2008) Member of the “Commission Scientifique Disciplinaire pour les Programmes Non Thématiques et Jeunes Chercheurs” of the ANR.

• (2008-10) Member of the “Commission Scientifique du Centre de Recherche INRIA Saclay”.

• (2008) Member of the panel to evaluate project proposals for the programme “Information and Communication Technology (ICT)”, sponsored by the Vienna Science and Technology Fund WWTF.

• (2007) Member of the committee for the evaluation of the candidates to the researcher (CR2) positions at INRIA Saclay.

• (2007-15) Member of the INRIA/DRI GTRI (Group de Travail Relations Internationales) du COST (Conseil d’Orientation Scientifique et Technologique) de l’INRIA. Promotion of international initiatives and the evaluation of project proposals.

• (2006-18) President of the selection committee for the EATCS Best Paper Award at the ETAPS conferences.

• (2006-09) Member of the EATCS Award Committee, attributing an annual award to distinguished career in Theoretical Computer science.

• (2006) Member of the assessment panel for the evaluation of the project proposals for the initiative FOCUS of the Dutch National Science Foundation.

• (2005-) Reviewer for the project proposals for the program PRIN, sponsored by the Italian MIUR (“Ministero dell’Istruzione, dell’Università e della Ricerca”).

• (2003) Member of the committee for the evaluation of the candidates to the researcher (CR2) positions at INRIA Futurs.


• (2002) Reviewer and Panelist for proposals submitted to the National Science Foundation Program on Software Engineering and Languages.

• (2001) Reviewer of various projects submitted to NWO (Council of Physical Sciences of the Netherlands Organisation for Scientific Research).

• (2001) Reviewer for proposals submitted to Science Foundation Ireland.

• (2000) Referee for the NSF program of Collaboration with Western Europe.


• (1997) External advisor and member of the committee in the competition for an Associate Professorship position in Computer Science at the Univ. of Stockholm, Sweden, 1997.

• (1996) External advisor and member of the committee in the competition for a chair in Computer Science at the Univ. of Lund, Sweden, 1996.


• (1992) Reviewer of various projects submitted to the SION Foundation (Computer Science in the Netherlands).


• Author of several reference letters every year for candidates applying to various positions in Computer Science
4 Projects and grants

4.1 Projects

- PI of the project Privacy-Friendly Data Analytics funded by the Siebel Energy Institute. The objective of this project is to develop methodologies for protecting the privacy of individuals while letting their data be collected and used for analytical purposes. 2018-19.

- Project Coordinator of the STIC project SUPREME: Statistical-Utility Preserving Methods for Privacy Protection. Other PI’s: Serge Haddad, ENS Cachan. The objective of this project is to develop the theoretical foundations, methods and tools to protect the privacy of the individuals under certain requirements. We aim in particular at developing mechanisms that: (1) are robust with respect to combination of information from different sources, (2) can be applied directly by the user, thus avoiding the need of a trusted party, and (3) provide an optimal trade-off between privacy and utility. 2018-19.

- Project Coordinator of the ANR project REPAS: Reliable and Privacy-Aware Software Systems via Bisimulation Metrics. Partners: INRIA Saclay, EPI Comète (p.i. Catuscia Palamidessi), INRIA Sophia Antipolis EPI Focus University of Bologna (p.i. Ugo dal Lago), ENS Paris (p.i. Vincent Danos), ENS Lyon (p.i. Filippo Bonchi). In this project, we aim at investigating quantitative notions and tools for proving program correctness and protecting privacy. In particular, we will focus on bisimulation metrics, which are the natural extension of bisimulation on quantitative systems. As a key application, we will develop a mechanism to protect the privacy of users when their location traces are collected. 2016-20.

- Project Coordinator of the DIGICOSME project OPTIMEC: Optimal Mechanisms for Privacy Protection. Other PI’s: Serge Haddad, ENS Cachan. In this project we investigate classes of utility and privacy measures, and devise methods to obtain optimal mechanisms with respect to the trade-off between utility and privacy. In order to represent the probabilistic knowledge of the adversary and of the user, and the fact that mechanisms themselves can be randomized, we consider a probabilistic setting. We focus, in particular, on measures that are expressible as linear functions of the probabilities. 2016-18.

- Contract with Renault R&D on Protection techniques for location data. The goal of this project was to produce a survey of the state of the art on methods for protecting location data, and a prototype based on our geo-indistinguishability approach for privacy protection in the context of “connected cars”. This project funded the internship of Anna Pazii. 2016.

- Project Coordinator of the INRIA-Microsoft Research Lab project Privacy-Friendly Services and Apps. This was a project sponsored by Microsoft Research Lab, with various partners at Microsoft Cambridge and at INRIA. 2013-16.

- PI of the node at INRIA Saclay for the ISN: Institute de la Société Numérique. This was an Interdisciplinary project aiming at bringing together experts in economy and in computer science. 2012-16.

- Responsible of the French teams for the FP7 project MEALS: Mobility between Europe and Argentina applying Logic to Systems. This project was financed by the FP7 Marie Curie’s IRSES program. Partners: Saarland University, Germany. INRIA Saclay, Rennes, Lille and Sophia Antipolis, France. Rheinisch-Westfälische Technische Hochschule Aachen, Germany. Technische Universität Dresden, Germany. Imperial College of Science, Technology and Medicine, UK. University of Leicester, UK. Technische Universität Eindhoven, NL. Universidad Nacional de Córdoba, AR. Universidad de Buenos Aires, AR. 2013-2016.

- DRI project PRINCESS: Protecting privacy while preserving data access. Teams involved: INRIA Saclay, France (p.i. C. Palamidessi), Florida International University, USA (p.i. G. Smith), Macquaire University, Australia (p.i. Annabelle McIver), NICTA, Australia (p.i. Carroll Morgan), and University of Pennsylvania, USA (p.i. A. Scedrov). 2013-2016.

- ANR International project PACE, Beyond plain Processes: Analysis, Coinduction and Expressiveness. This project is financed by the ANR, for the years 2013-2016. Partners: ENS Lyon (p.i. Daniel Hirschoff), INRIA Sophia-Antipolis (p.i. Davide Sangiorgi), INRIA Saclay (p.i. Catuscia Palamidessi), Chinese Academy of Science of Shangai (p.i. Yuxi Fu).

- ANR International project LOCALI: Logical Approach to Novel Computational Paradigms. This project is financed by the ANR, for the years 2011-2015. Partners: INRIA Rocquencourt (p.i. Gilles Dowek), INRIA Saclay (p.i. Catuscia Palamidessi), Paris VII (p.i. Thomas Erhard), Chinese Academy of Science of Beijin (p.i. Ying Jiang).
• Large-scale initiative **CAPPRIS**: *Collaborative Action on the Protection of Privacy Rights in the Information Society*. The goal of this project is to study the challenges related to privacy in the modern information society, trying to consider not only the technical, but also the social and legal ones, and to develop methods to enhance the privacy protection. This project is financed by INRIA for the years 2011-2015 and it involves four INRIA research centers (Saclay, Sophia-Antipolis, Rennes and Grenoble), CNRS-LRAS, Eurecom and the university of Namur. Besides computer scientists, the consortium also includes experts in sociology and in law, thus covering the complementary areas of expertise required to reach the objectives.

• ANR project **PANDA, Analysis of Parallelism and Distribution**. This project is financed by the ANR, for the years 2009-2013. Partners: INRIA Saclay (p.i. Catuscia Palamidessi), CEA Saclay (p.i. Emmanuel Haucourt), Pôle Parisien (p.i. Damiano Mazza), Pôle Méditerranéen (p.i., Emmanuel Godard), Airbus (p.i. Jean Souyris).

• ANR project **CPP: Confidence, Proof and Probabilities**. This project is financed by the ANR, for the years 2009-2013. Partners: LSV (p.i. Jean Goubault-Larrecq), CEA (p.i. Olivier Bouissou), INRIA Futurs (p.i. C. Palamidessi), Supelec L2S (p.i. Michel Kieffer), and Supelec SSE (p.i. Gilles Fleury).


• PAI project **MONACO: MOdels for New Applications of CONcurrency**. Teams involved: Imperial College (p.i. I. Phillips), INRIA Futurs (p.i. C. Palamidessi) and Technische Universität Berlin (p.i. U. Nestmann). 2007.

• ARC project **ProNoBiS: Probability and Nondeterminism, Bisimulations and Security**. Main partners: ENS Cachan and INRIA Futurs (team SECSI) (p.i. J. Goubault-Larrecq), INRIA Futurs (team Comète) (p.i. C. Palamidessi), PPS (p.i. V. Danos), University of Oxford (p.i. M. Kwiatkowska) and Università di Verona (p.i. R. Segala). 2006-2007.


• ACI Sécurité project **Rossignol: Verification of Cryptographic Protocols**. Teams involved: LIF (p.i. D. Lugiez), INRIA Futurs (p.i. C. Palamidessi), LSV (p.i. F. Jacquemard) and VERIMAG (p.i. Y. Lakhnech). 2003-2006.

• Principal investigator of a NSF-POWRE project on Probabilistic methods in Concurrency. Funded by National Science Foundation from 2000 untill 2002.

• U.S.-France Cooperative Research on Logic-Based Specification and Verification Tools for Concurrent Languages. Funded for three years starting from 1999 by the NSF and the French CNRS. The Principal Investigators of this project were François Fages (ENS), Dale Miller and Catuscia Palamidessi (PSU). **HCM EXPRESS** Cooperation Network on Expressiveness of languages for Concurrency. Partners: Centre for Mathematics and Computer Science (CWI) (NL), Università di Genova (I), University of Utrecht (NL), Università di Rome (I), Swedish Institute of Computer Science (SICS) (S), University of Hildesheim (D), University of Amsterdam (NL), INRIA Sophia-Antipolis (F), INRIA Rennes (F), Gesellschaft fur Mathematik und Datenverarbeitung (GMD) (D), University of Sussex (UK). Funded by the European Community (EC) for four years starting from 1993.

• **EC/KIT** Cooperation Network on Logic Programming in Knowledge Representation and Reasoning. Partners: Università di Genova (I), Università di Pisa (I), Imperial College (UK), Universidade Nova de Lisboa (P), Asian Institute of Technology (Thailand). Funded by the EC for two years starting from 1994.

• **CNR/JNICT** Cooperation Italy-Portugal on Concurrency extensions and parallel implementations of Logic Programming. Partners: Università di Genova (I), Università di Pisa (I), Università di Bologna (I), Universidade Nova de Lisboa (P). Funded by the Italian Comitato Nazionale delle Ricerche (CNR) and the Portuguese JNICT for two years starting from 1994.

• Università di Genova - Free University of Amsterdam on Concurrent Constraint and Logic Programming. Funded by the Italian CNR for one year (1994).

• Cooperation Università di Genova - Università di Pisa - Università di Bologna on Coordination Languages. Funded by the Italian CNR for one year (1994).
4.2 Grants

- Several Ecole Polytechnique / Ministère grants for PhD students and visiting scientists.
- Several INRIA grants for PhD students, postdoc and visiting scientists.
- Several CNRS/DGA grants for three years PhD position.
- Several Digiteo grants for visiting scientists.
- Several CNRS grants for visiting scientists.
- EEC grant for three months postdoc position in 1997.
- Fulbright Senior grant for visiting an academic institute in the USA, for three months in 1997. (Declined.)
- GNIM/CNR grant to invite a senior foreign visitor for two months in 1996.
- GNIM/CNR grant to visit the University of Pennsylvania for three weeks. July 1994.
- GNIM/CNR grant to invite a senior foreign visitor for one month. June 1994.
- NATO grant to visit the Centre for Mathematics and Computer Science (CWI) in Amsterdam for eleven months. Dec. 90 - Oct. 91.
- CNR grant to visit the Centre for Mathematics and Computer Science (CWI) in Amsterdam for six months. March 90 - Aug. 91

5 Teaching and educational activity

5.1 Supervision of PhD students


(2008-11) **Mario Alvim.** Ecole Polytechnique. Grant CNRS/DGA. Title of his PhD thesis: *Quantitative Approaches for Information Flow: An Analysis of Interactive Systems and Statistical Databases.* Defended on October 2011. After the PhD he got a postdoc position at the University of Pennsylvania, USA, and then a tenor track faculty position at the University of Mina Gerais, Brazil.


(2005-09) **Romain Beauxis.** Ecole Polytechnique. Grant Region Ile de France. Title of his thesis: *A formal approach to the modeling, simulation and analysis of nano-devices.* Defended in May 2009. After the defense he got a postdoc position at Tulane University, USA.


(1998-02) **Mihaela Oltea Herescu.** Department of Computer Science and Engineering, Penn State University, USA. Title of her PhD thesis: *Probabilistic Asynchronous pi-calculus,* defended on November 2002. She is currently employed at IBM Austin, Texas.

(1993-96) **Alessandro Messora.** Topic: Higher Order Logic Programming. Department of Computer Science, University of Genova, Italy. He did not complete the PhD because of family problems.

(1990-94) **Alessandra di Pierro.** Title of her PhD thesis: *Negation and Infinite Computations in Logic Programming.* Department of Computer Science, Università di Pisa, Italy. Thesis defended on February 2004. She is currently employed at the Dept. of Computer Science of the Università di Verona as an Assistant Professor.
5.2 Supervision of other students

- Supervisor for the following internship students:
  - Arthur Américo. Universidade Federal de Minas Gerais. From April 2018 until June 2018.
  - Valeria Vignudelli. Univ. of Bologna, Italy. From March 2016 until July 2016.
  - Michela Paolini. IMT Institute for Advanced Studies, Lucca, Italy. From Sept 2012 until Dec 2012.

- Supervisor of various Master Theses in Computer Science at the Dept. of Computer Science and Engineering, Penn State University, USA, at the Dept. of Computer Science, Università di Genova, Italy, and at the Dept. of Computer Science, Università di Pisa, Italy.

- Supervisor of various Honnor Theses in Computer Science and Engineering at the Dept. of Computer Science and Engineering, Penn State University, USA.
5.3 Supervision of postdocs

- (Jan 2018-Mar 19) Valentina Castiglioni.
- (July 2017-Ago 18) Ali Kassem. Presently he is R&D engineer at INRIA Grenoble, in the team CORSE.
- (Oct 2015-Nov 16) Ehab ElSalamouny. Presently he is associate professor at Suez Canal University, Egypt.
- (Oct 2013-Apr 15) Yusuke Kawamoto. Presently he is research scientist at AIST (National Institute of Advanced Industrial Science and Technology) in Japan.
- (Oct 2013-Nov 13) Tobias Heindel. Presently he is a research associate at the University of Edinburgh, UK.
- (Mar 2012-Feb 13) Matteo Mio. Presently he has a CNRS research position at ENS Lyon, France.
- (Nov 2011-Nov 13) Sardaouna Hamadou. Presently he has a position at the Ecole Polytechnique of Montreal, Canada.
- (Nov 2011-Oct 12) Ehab ElSalamouny. Presently he is associate professor at Suez Canal University, Egypt.
- (Mar 2011-Feb 12) Marco Giusti. Presently he has a postdoc position at the University of Lisbon, Portugal.
- (Nov 2010-Oct 12) Miguel E. Andrés. Presently he has a position at Google Mountain View, USA.
- (Nov 2009-Feb 11) Jérémie Dubreil. Presently he is a software engineer at Facebook UK.
- (Nov 2009-June 10) Filippo Bonchi. Presently he is a CNRS researcher at the ENS Lyon.
- (Nov 2007-Oct 08) Simon Kramer. Presently he is a research fellow at University of Tsukuba, Japan.
- (Mar 2007-Mar 08) Jean Krivine. Presently he is a CNRS researcher at the University of Paris VII.
- (Sep 2006-Nov 07) Angelo Troina. Presently he is an assistant professor at the Università di Torino, Italy.
- (Sep 2005-Sep 07) Peng Wu. Presently he is an associate professor at the Chinese Academy of Science, Peking, China.
- (Sep 2004-Dec 05) Tom Chothia. Presently he is a lecturer at the University of Birgmingham, UK.
- (Aug 2004-Sep 05) Jun Pang. Presently he is a research assistant at the University of Luxembourg.

5.4 Examiner for Habilitation thesis


5.5 Member of advisory boards for PhD programs and thesis

- External member of the scientific council for the PhD in Computer Science at the University of Pisa, Italy. Since 2012.
- Member of the advising committee for Hamid Ebadi, PhD student supervised by David Sands, Chalmers University, Sweden. 2014-18. Also reviewer and member of the committee for the half-way thesis defense (Licentiate) that took place in June 2015.
- Member of the advising committee for the PhD thesis of Jun Wang (PhD student supervised by Qiang Tang and Peter Ryan), University of Luxembourg. 2014-18.
- Member of the advising committee for the PhD thesis of Andrea Margheri (PhD student supervised by Rosario Pugliese), University of Florence, Italy. 2014-16.
5.6 Examiner for PhD thesis


- Hamid Ebadi (Chalmers University, Sweden). Member of the committee board at the PhD defense. Title of the thesis: *Dynamic Enforcement of Differential Privacy*. Supervised by David Sands. Defended on March 5, 2018.

- Nicolas Bonifas (Ecole Polytechnique, France). Member of the committee board at the PhD defense. Title of the thesis: *Geometric and Dual Approaches to Cumulative Scheduling*. Supervised by Philippe Baptiste. Defended in December 2017.

- Maggie Mhanna (CentraleSupelec, France). Member of the committee board at the PhD defense. Supervised by Pablo Piantanida. Defended in January 2017.


• President of the committee at the “defense day” of all thesis in Computer Science for the year 2009 at the University of Bologna. 20 April 2009.

• Han Chen. Queen Mary, University of London, UK. PhD thesis reviewer and member of the committee board at the PhD defense. Title of the thesis: Information-Theoretic Approaches to Non-Interference. Advised by Pasquale Malacaria. Defended on December 17, 2008.


• Marie Duflot, École Normale Supérieure de Cachan, France. PhD thesis reviewer and member of the committee board at the PhD defense. September 2003.


• Jeremie Blanc, Université de Grenoble I, France. PhD thesis reviewer and member of the committee board at the PhD defense. December 2002.

• Elaine Pimentel, Universidade Federal de Minas Gerais, Brazil. PhD thesis reviewer and member of the committee board at the PhD defense. December 2001.

• Sylvain Soliman, Université de Paris 7, France. PhD thesis reviewer and member of the committee board at the PhD defense. April 2001.


• Sven-Olof Nyström, University of Uppsala, Sweden. PhD thesis reviewer and member of the committee board at the PhD defense. April 1996.


• Francesca Rossi, Università di Pisa, Italy. PhD thesis reviewer and member of the committee board at the PhD defense. February 1993.

• Mounira Belmesk, CNRS, France and University of Algery, Algeria. PhD thesis reviewer and member of the committee board at the PhD defense. September 1992.


5.7 Teaching

5.7.1 Courses at the Master Parisien de Recherche en Informatique (MPRI)

• (2015-) MPRI course 2.3.2: Foundations of privacy. Catuscia Palamidessi has designed in 2015 the MPRI M2 course 2.3.2, on the protection of privacy and control of information leakage. The course consists of 24 ours of lectures, and is worth 3 ECTS. Catuscia Palamidessi has been teaching the course, together with Kostas Chatzikokolakis, during the academic years 2015-16, 2016-17, and 2017-18.

• (2004-15) MPRI course 2.3: Concurrency. Catuscia Palamidessi designed in 2004, together with Jean-Jacques Levy, the MPRI M2 course 3.2 on the foundations of concurrency theory. The course consisted of 48 ours of lectures, and was worth 6 ECTS. She has been one of the responsibles of that course, until 2015. She has taught classes during the A.Y. 2007-08, 2006-07, 2005-06, and 2004-05.

• (2003-04) Course on Concurrency at the DEA Programmation.

5.7.2 Courses for PhD students at various universities

• Course on Quantitative Information Flow and on Differential Privacy at the department of Computer Science of the University of Venice, Italy. April 2016.

• Course on Quantitative Information Flow at the department of Computer Science of the University of Pisa, Italy. April 2014.

• Course on Probabilistic Methods in Concurrency at the PhD program in Pisa, Università di Pisa, Italy. Summer 2004.


- CSE 597A Fall 2000. Program Analysis. Graduate seminar, with John Hannan, Mahmut Kandemir and Dale Miller. Dept. of Computer Science and Eng, PSU, USA.

- CSE 597G Spring 1998. Logic and Programming Languages. Graduate seminar, with John Hannan and Dale Miller. Dept. of Computer Science and Eng, PSU, USA.


5.7.3 Tutorials, summer schools and other advanced courses

- Lecturer at MOD’19, the 40th Marktoberdorf Summerschool, devoted to the more formal aspects of safety and security in software systems. July 31 - August 10, 2019.

- Course on formal methods for privacy at EBSIS 2017, a summer school on Event Based Systems with focus on Security, Dependability and Scalability. Timmendorfer Strand, Germany, July 2017.


- Course on Data Privacy at DSSP3: Data Science Starter Program. E. Polytechnique, France, Oct 2015.

- Course on Data Privacy at DSSP2: Data Science Starter Program. E. Polytechnique, France, June 2015.

- Course on quantitative information flow at BISS 2015, the Bertinoro International Spring School. March 2015.

- Tutorial on Quantitative aspects of Information Flow and Privacy at WoLLIC, the Workshop on Logic, Language, Information and Computation. TU Darmstadt, Germany, August 2013.

- Course on Quantitative Information Flow and on Differential Privacy at RIO 2012, the Summer School on Informatics Río Cuarto, Argentine. February 2012.


5.7.4 Undergraduate courses

- CSE 468 Fall 2000 and Fall 98. Th. of Automata, Languages and Computability. Dept. of Computer Science and Eng, PSU, USA.
- Programming Languages. Dept. of Computer Science, Univ. of Genova, Italy. A.Y. 97-98 and 96-97.
- Theory and Practice of Programming. Dept. of Computer Science, Univ. of Genova, Italy. A.Y. 95-96 and 94-95.
- Theory and Applications of Computing Machines. Dept. of Computer Science, Univ. of Genova, Italy. A.Y. 93-94 and 92-93.
- Theory and Applications of Computing Machines. Dept. of Computer Science, Univ. of Pisa, Italy. A.Y. 89-90.
- Theory of Algorithms and Computability. Dept. of Computer Science, Univ. of Pisa, Italy. A.Y. 91-92, 89-90, and 88-89.

5.8 Teaching awards

- Recipient of the best teaching award for the year 1998 in the Department of Computer Science and Engineering of the Pennsylvania State University.

6 Service to the department and college

- (2017-) Member of the committee for the assignment of the INRIA International Chairs.
- (2001-02) Faculty advisor of the Penn State Chapter of ACM-W (Women in Computing), Penn State University, USA.
- (2001) Faculty advisor for the Engineering Advising Center. College of Engineering, Penn State University, USA.
- (2000-02) Member of the Award Committee. Dept. of Computer Science and Engineering, Penn State University, USA.
- (2000-01) Chair of the Sabbatical Review Committee. College of Engineering, Penn State University, USA.
- (1999-01) Member of the Graduate Committee. Dept. of Computer Science and Engineering, Penn State University, USA.
- (1999-2000) Member of the Promotion and Tenure Committee. Dept. of Computer Science and Engineering, Penn State University, USA.
- (1999-2000) Member of the Sabbatical Review Committee. College of Engineering, Penn State University, USA.
- (1998-2001) Member of the Climate Committee. College of Engineering, Penn State University, USA.
- (1998-2001) Chair of the Climate Committee. Department of Computer Science and Engineering, Penn State University, USA.
- (1997) Chair of the committee for the admission to the PhD program in Computer Science Univ. of Genova, Italy.