

1. CURRICULUM VITÆ

First name, Surname: Stefano, Moretti

Gender: M

Birth date and place : 8 February 1974, Genova (Italy)

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Education and training

13 October 2016: Habilitation à Diriger des Recherches (HDR)

Title of the thesis: Game theory and practice: models, axioms and algorithms.

Coordinator: Dr. R.Laraki

Institution: Université Paris Dauphine, Paris, France.

HDR: Prof. F.J.Eesteban, Dr. M.Hoefer, Prof. H. Moulin, Dr. C.Dürr, Prof. M.Grabisch, Prof. P.Marquis.

10 October 2008: Ph.D. in Game Theory

Title of the thesis: Cost allocation problems arising from connection situations in an interactive cooperative setting.

Supervisors: Prof. S.H.Tijs and Prof. W.H. Norde. *Co-supervisor:* Prof. M.R. Branzei

Institution: CentER and Department of Econometrics and Operations Research, Tilburg University, The Netherlands.

Ph.D. committee: Prof. S.H. Tijs, Prof. W.H. Norde, Prof. M.R. Branzei, Prof. P.E.M. Borm, Prof. H.J.M. Hamers, Prof. G. Bergantinos, Prof. F. Patrone.

25 May 2006: Ph.D. in Mathematics and applications.

Title of the thesis: Game theory applied to gene expression analysis.

Supervisors: Prof. F. Patrone. *Co-supervisor:* Dr. S. Bonassi.

Institution: Department of Mathematics, University of Genova, Italy.

17 December 1999: Post-Master degree in Decision theory and risk analysis.

Institution: University of Castellanza, Varese, Italy.

Final marks: cum laude.

12 April 1999: Master degree in Environmental Science.

Institution: University of Genova, Italy.

Final marks: 110/110 (one hundred and ten out of one hundred and ten)

Work experience

Current position (from 1/12/2009): Associate Scientist (“Chargé de recherche de première classe”)

Employer: CNRS (The National Center for Scientific Research).

Unit: UMR7243 - LAMSADE (“Laboratoire d’Analyse et Modélisation of Systèmes pour l’Aide à la Décision”), Paris Dauphine University, France

from 16/03/2007 to 30/11/2009: Senior Research Fellow.

Employer: Unit of Molecular Epidemiology, National Cancer Research Institute, Genova, Italy.

from 16/03/2006 to 15/03/2007: Junior Research Fellow.

Employer: Unit of Molecular Epidemiology, National Cancer Research Institute, Genova, Italy.

from 01/03/2003 to 28/02/2006: Ph.D. student

Employer: Department of Mathematics, University of Genova, Italy.

from 03/03/2000 to 17/12/2002: Research fellow.

Employer: Institute for Applied Mathematics, National Research Council (CNR), Genova, Italy.

Research interests

game theory and practice, operations research, bioinformatics.

Participation to scientific projects

- 2015 *Games and social choice: axiomatic and algorithmic aspects*, transversal project of the LAMSADE (Laboratoire d’Analyse et Modélisation of Systèmes pour l’Aide à la Décision), start date: 1/2015, Main activities and responsibilities: project leader (with Laurent Gourvès, CNRS).
- 2014-2015 *Computation, Communication, Rationality and Incentives in Collective and Cooperative Decision Making (CoCoRICo-CoDec)*, ANR-13-BS02-004, financed by: ANR (The National Agency for Research), start date: 10/2014, duration: 60 months, Main activities and responsibilities: member of the project.
- 2013-2015 *Advanced Multilateral Argumentation for DELiberation (AMANDE)* ANR-13-BS02-0004, financed by: ANR BLANC, start date: 12/2013, duration: 48 months, Main activities and responsibilities: Work-package leader.
- 2014-2015 *Theorie Algorithmique of la Décision et des Jeux*, financed by: GDR-RO “Groupement of Recherche of Recherche Opérationnelle”, start date: 1/2014, Main activities and responsibilities: coordinator of the working group (with Patrice Perny, LIP6-UPMC)
- 2013-2015 *Eureka SD project, Enhancement of University Research and Education in Knowledge Areas useful for Sustainable Development*, financed by: Erasmus Mundus Action 2, Main activities and responsibilities: local coordinator of the Paris Dauphine unit.
- 2013-2015 *Orchestration d’algorithmes d’apprentissage distribués pour la gestion des ressources dans les réseaux mobiles (NETLEARN)* ANR-13-INFR-004, financed by: ANR INFRA, start date: 12/2013, duration: 36 months, Main activities and responsibilities: local coordinator of the Paris Dauphine unit.

- 2013 *Multi-criteria coalition formation grounded in the data*, financed by: GDR-RO “Groupement of Recherche of Recherche Opérationnelle”, duration: 12 months, Main activities and responsibilities: project leader.
- 2011 *Combinatorial OptimizatioN through conGestion gAmes (CONGAS)*, financed by: GDR-RO “Groupement of Recherche of Recherche Opérationnelle”, duration: 12 months, Main activities and responsibilities: project leader.
- 2008-2009, *Identification of tumor biomarkers through a biology-driven approach*, financed by: le Ministère Italyen de la Santé/Regione Liguria, à l’Institut Istituto Nazionale per la Ricerca sul Cancro, Genova, Italy, Main activities and responsibilities: member of the project in charge of the statistical analysis of the biological data.
- 2006-2007, *Newborns and Genotoxic exposure risks, NewGeneris*, financed by: EU 6th FP (FOOD-CT-2005-016320), National Cancer Research Institute, Genova, Italy. Main activities and responsibilities: member of the project in charge of the statistical analysis of the biological data.
- 2006, *West Delta Project Conservation and Irrigation Rehabilitation Project (WDWCAIRP)* of the World Bank, Main activities and responsibilities: Short Term Consultant.
- 2004-2005, *Identification of gene expression profiles associated to cancer progression in pediatric solid tumors*, projet Ministérielle, Italy, Main activities and responsibilities: member of the project.
- 2002, *Incomplete contracts*, Projet ministériel, University of Castellanza, Varese, Italy, Main activities and responsibilities: member of the project.
- 2001, *M-Aqua: Multimedia for Continuous Training in Water Industry*, Programme EC Leonardo Da Vinci, Institute pour la Mathematics Appliquée, CNR, Italy, Main activities and responsibilities: member of the project.
- 2000, *Cost allocation methods for waste consortia*, Projet ministériel, University of Genova, Italy, Main activities and responsibilities: member of the project.
- 2000, *Ratio or Norm*, Projet ministériel, University of Castellanza, Varese, Italy, Main activities and responsibilities: member of the project.

Organization of scientific events

- 2016 member of the Scientific Committee of the International Conference *12th Spain-Italy-Netherlands Meeting on Game Theory (SING12)*, Odense (Denmark), le 11-13 July 2016.
- 2016 member of the Organizing Committee of the special session *Foundations and algorithms for ranking systems* at the ROADEF 2016 - “17ème congrès of la Société Française de Recherche Opérationnelle et d’Aide à la Décision”, 10-12 February 2016.
- 2015 member of the Scientific Committee of the *Summer School Game Theory and Algorithms*, Campione d’Italia, 7-11 September 2015.
- 2015 member of the Program Committee of the *IJCAI-15th Workshop on Innovative Applications of Game Theory and Market Design*, Buenos Aires, 26 July 2015.
- 2015 member of the Scientific Committee of the International Conference *11th European Meeting on Game Theory (SING11-GTM2015) (SING11-GTM2015)*, St Petersburg (Russia), 8-10 July 2015.
- 2014 co-organiser (with Patrice Perny, LIP6-UPMC) of the workshop “*Théorie algorithmique de la décision et des jeux*”, LIP6 - UPMC, 17 September 2014.
- 2014 member of the Scientific Committee of the International Conference *10th Spain-Italy-Netherlands Meeting on Game Theory (SING10)*, Kraków (Poland), le 7-9 July 2014.

- 2014 member of the Organizing Committee of the workshop “*Journéed du LAMSADE*”, Institute Henri Poincaré , Paris, 7-8 April 2014.
- 2013 member of the Scientific Committee of the International Conference *9th Spain-Italy-Netherlands Meeting on Game Theory (SING9)*, Vigo (Spain), le 8-10 July, 2013.
- 2013 member of the Organizing Committee of the *Final Workshop Games, algorithms and optimization*, Paris, France, 7 June 2013.
- 2013 member of the Organizing Committee of the special session “*Théorie des jeux et recherche opérationnelle*” at the ROADEF 2013 - “14ème congrès of la Société Française of Recherche Opérationnelle et d’Aide à la Décision”, 13-15 February 2013.
- 2012 member of the Organizing and Scientific Committee of the “*École de printemps en théorie des jeux algorithmique*”, campus of Jussieu (Amphi Durand), Paris 18-20 June 2012
- 2012 member of the Organizing Committee of the special session *théorie des jeux et recherche opérationnelle* at the ROADEF 2012 (13th Congress of the French Society for Operations Research), 11-13 April.
- 2012 member of the Organizing and Scientific Committee of the *Workshop Games, algorithms and optimization*, Paris, France, 24 June 2011.
- 2010 member of the Organizing Committee of the invited session *Cooperative situations on networks:algorithms and applications*, EURO XXIV 24th European Conference on Operational Research, Lisbon, Portugal, 11-14 July 2010.
- 2010 member of the Organizing Committee of the invited session *Cooperative situations on networks:algorithms and applications*, EURO XXIV 24th European Conference on Operational Research, Lisbon, Portugal, 11-14 July 2010.
- 2010 co-organiser (with Laurent Gourvès, CNRS) of the workshop *Game Practice and Preference aggregation*, University Paris Dauphine, 23 June 2010.

Other academic activities

Evaluation committees

- 2016 Examiner of the Committee for the final evaluation of the Ph.D. thesis of Melanie Boudard: *Prédiction de structure tridimensionnelle de molécules d’ARN par minimisation de regret*, Université Paris-Saclay, spécialité Informatique, 29 April 2016.
- 2016 Member of the Committee for the midway evaluation of the Ph.D. thesis of Amélie Heliou: *Théorie des jeux et échantillonnage de conformations pour l’amarrage macromoléculaire multi-corps et multi-échelle*, Université Paris-Saclay, 21 April 2016.
- 2015 Member of the Committee for the selection of an Associated Professor, profile “Informatique” MCF258, Section 27, LAMSADE, Paris Dauphine University.
- 2015 Member of the Committee for the midway evaluation of the Ph.D. thesis of Mikael Touati: *Coalition and Matching Games in Networks*, Telecom ParisTech, LTCI CNRS 5141, 4 June 2015.
- 2014 Examiner of the Committee for the final evaluation of the Ph.D. thesis of Ahmet Ozkaras: *Essays on wage bargaining*, “Doctorat of Sciences Économiques”, University Paris 1 Panthéon-Sorbonne, U.F.R. of Science économiques, 17 November 2014.
- 2011 Member of the Committee for the selection of an Associated Professor, profile “Aide à la décision”, Section 27, LAMSADE, Paris Dauphine University.

Institutional responsibilities

- 2015-2016 Member of the Council of the laboratory (“Conseil de laboratoire”) of the LAMSADE, Paris Dauphine University.
- 2014-2016 Member of the Scientific Board of the Paris Dauphine University.
- 2013-2016 Member of the advisory committee for recruitment CCR (“Comité Consultatif de Recrutement”) of the LAMSADE, Paris Dauphine University.
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Teaching

- 2015-2016 Course: *Decision theory and game theory* (in collaboration with Lucie Galand, Univeristé Paris Dauphine), *Master 2 MODO* (“Modélisation Optimisation, Décision et Organisation”), Paris Dauphine University, 6 hours of teaching.
- 2015-2016 Course: *Modèles décisionnels avancés* (in collaboration with Meltem Östürk and Gabriella Pigozzi, Univeristé Paris Dauphine), *Master M2 Peace Studies*, Paris Dauphine University, 6 hours of teaching.
- 2016 Course *An approach from game theory to Bioinformatics*, Plan Apoyo Doctorado 2015, instituto de matemáticas universidad de Sevilla Antonio de Castro Brzezicki, Spain, 23-24 November 2015, 6 hours of teaching.
- 2015 Invited teacher at the *Summer School Game Theory and Algorithms*, Campione d’Italia, 7-11 September 2015, 4 hours of teaching.
- 2015 Course: Algorithmic game theory (in collaboration with Laurent Gourvès, CNRS), *Doctoral program in Informatics*, Paris Dauphine University, 6 hours of teaching.
- 2014 Course: *Decision theory and game theory* (in collaboration with Lucie Galand, Univeristé Paris Dauphine), *Master 2 MODO* (“Modélisation Optimisation, Décision et Organisation”), Paris Dauphine University, 6 hours of teaching.
- 2014 Invited teacher at the *Summer School Game Theory and Telecommunication*, Campione d’Italia, 7-12 September 2014, 2 hours of teaching.
- 2013 Course *Game theoretical models in Engineering*, (in collaboration with Laurent Gourvès, CNRS and Roberto Lucchetti, Politecnico of Milan), Doctoral program in Mathematical Models and Methods in Engineering, Politecnico di Milano, Italy, 22 Mai 2013, 6 hours of teaching.
- 2013 Course: Course: Game theory (in collaboration with Laurent Gourvès, CNRS), *Doctoral program in Informatics*, Paris Dauphine University, 6 hours of teaching.
- 2013 Invited teacher at the *Summer School Game Theory and Health Management*, Campione d’Italia, 1-6 September 2013, 6 hours of teaching.
- 2011-2012 On-line course *Game Theory and Practice*, in the framework of the EU projet *VRTUOSI-Virtual Mobility in Decision Science*, 3 ECTS.
- 2012 Course: *Decisions under uncertainty and game theory* (in collaboration with Alexis Tsoukiàs, CNRS, and David Rios Insua, Rey Juan Carlos University), *Doctoral program in Informatics*, Paris Dauphine University, 6 hours of teaching.

- 2010 Course: *Introduction to Game Theory and Applications* (in collaboration with Fioarvante Patrone, University of Genova), organized in two editions at Telecom ParisTech, Paris, Doctoral program EDITE (“École doctorale informatique, télécommunications et électronique”) and the Network of Excellence Euro-NF, 30 hours of teaching, first edition 18-22 January 2010, second edition 15-19 February 2010.
- 2010 Course: *Decisions under uncertainty and game theory* (in collaboration with Alexis Tsoukiàs, CNRS, and David Rios Insua, Rey Juan Carlos University), Doctoral program EDDIMO (“École Doctorale Décision Informatique Mathématiques Organisation”), Paris Dauphine University, 9 hours of teaching.
- 2009 Course: *Statistic*, Bachelor’s degree in Biology and Environmental Science, University of Piemonte Orientale, Alessandria, Italy, 32 hours of teaching.
- 2009 Course: *Game Theory*, (in collaboration with Anna Torre, University of Pavia), Bachelor’s degree in Mathematics, University of Pavia, and Almo Collegio Borromeo, Pavia, Italy, 8 hours of teaching.
- 2008 Course: *Statistic*, Bachelor’s degree in Biology and Environmental Science, University of Piemonte Orientale, Alessandria, Italy, 32 hours of teaching.
- 2007 Course: *Decision Theory*, Bachelor’s degree in Statistics, Mathematics and Data Management (SMID), University of Genova, Italy, 32 hours of teaching.
- 2007 Course: *Statistic*, Bachelor’s degree in Biology and Environmental Science, University of Piemonte Orientale, Alessandria, Italy, 32 hours of teaching.
- 2006 Course: *Decision Theory*, Bachelor’s degree in Statistics, Mathematics and Data Management (SMID), University of Genova, Italy, 32 hours of teaching.
- 2006 (Adjunct professor) Teacher of the course *Game theory applied to social science* (in collaboration with Fioravante Patrone, University of Genova), Politecnico di Milano, Italy, 12 hours of teaching.
- 2005 Course: *Decision Theory for Statisticians and Mathematicians*, University of Genoa, Italy, 12 hours of teaching
- 2005, Course: *Mathematical and Quantitative Methods*, the Master in Economical Decisions, Social Responsibility and Ethical Certifications at University of Castellanza, Varese, Italy, 18 hours of teaching.
- 2004, Course: *Decision Theory*, Master in for Statistics and Mathematics, Department of Mathematics, University of Genoa, Italy, 12 hours of teaching.
- 2004 Course: *Game Theory*, University of Pavia and at Almo Collegio Borromeo, Pavia, Italy, 8 hours of teaching.
- 2003 Course: *General Mathematics for Bio-technologists*, University of Genoa, Italy, 8 hours of teaching.
- 2003 Invited teacher at the at the summer school Game Practice and Operations Research, Inter-university Centre for Game Theory (CITG), Lavagna, Genova, Italy, 4 hours of teaching.
- 2003 Course: *Mathematical and Quantitative Methods*, Master in Economical Decisions, Social Responsibility and Ethical Certifications, at University of Castellanza, Varese, Italy, 12 hours of teaching.
- 2000 (Teaching assistant) course in *Microeconomics and Game Theory* for post-graduated students of the Master in Decision Theory, University of Castellanza, Varese, Italy.
- 2000, 2001, 2002 Course: *Multimediality and Teaching* at the Specialisation School for postgraduated students, CNR, Genova, Italy.

Students supervision

- 2013-2015 Giulia Cesari, Ph.D. student: *Game theoretic models of network formation*, joint Ph.D. with the Politecnico di Milano, Italy, Start date: October 2013, duration: 3 years.
- 2015 Zribi Souhir, Master student at the University Paris Dauphine: *Development of an R package for computing network centrality based on solution for coalitional games*, Master MODO, University Paris Dauphine, master stage at Paris Dauphine University, Start date: 16/03/15, duration: 4 months.
- 2015 Francesca Fossati, Master student at Politecnico di Milano: *Collusion in an argumentation framework*, Master in Mathematical Engineering, Italy, master stage at Paris Dauphine University, Start date: 1/04/15, duration: 4 months.
- 2015 Arthur Buquet, master student at the Paris-Descartes University: *Multy-agent argumentation systems*, Master “Informatique, Intelligence Artificielle et Systèmes multi-agents”, co-supervised with Gabriella Pigozzi (Paris Dauphine), master stage at Paris Dauphine University, Start date: 1/04/15, duration: 5 months.
- 2012-2016 I am teacher-member of the *atelier en IA et Décision* du Master MODO Aide à la Décision, LAMSADE, Paris Dauphine University, aimed at teaching students to do research.
- 2014 Houissa Asma, Master student at the University Paris Dauphine: *Développement of logiciels et outils of simulations pour CDN*, Master student, co-supervised with Dana Marinca UVSQ (University of Versailles Saint-Quentin-en-Yvelines), master stage at UVSQ, Start date: 12/03/14, duration: 6 months.
- 2014 Aisha Bousalem, master student at UPMC (Université Pierre et Marie Curie): *Coalition formation in cellular networks*, co-supervised with Marceau Coupechoux (Telecom ParisTech), master stage at Paris Dauphine University, Start date: 01/04/14, duration: 5 months.
- 2012 supervisor of the “Tesi di Laurea” (rapport of master) of Giulia Cesari: *Teoria dei Giochi cooperativi e valutazione della centralità dei nodi in un network biologico*, 2012, “Corso di Laurea Magistrale in Matematica”, University of Pavia, Italy.
- 2004 supervisor of the “Tesi di Laurea triennale” (Bachelor degree) of M.Vullo: *Discretization methods and cluster procedures for microarray data in gene expression analysis*, 2004, Department of Mathematics, University of Genova, Italy.
- 2003 supervisor of the “Tesi di Laurea triennale” (Bachelor degree) of G.Maddalena: *An Object oriented approach to game theory: playing with objects*, 2003, Department of Mathematics, University of Genova, Italy.
- 2003 supervisor of the “Tesi di Laurea triennale” (Bachelor degree) of F.Boncompagni: *An Object oriented approach to game theory: objects for playing*, 2003, Department of Mathematics, University of Genova, Italy.
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Visiting researcher positions

- April 2005, Universidad Miguel Hernández of Elche, Centro of Investigación Operativa, Spain.
- March-April 2000, August 2001, CentER and Department of Econometrics and Operations Research, Tilburg University (KUB), Tilburg, The Netherlands .
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Qualifications et distinctions

- 2009, French Qualification to become associate professor (“Qualification aux fonctions de Maître de Conférences”) *Section*: 26-“Mathématiques appliquées et applications des mathématiques”

2003

Mario Lucertini Prize for the best article produced by a young researcher and presented at the annual conference of the Italian Association for Operations Research (AIRO).

Language

Italian:	Native language
English:	Fluent
French:	Fluent