# Giorgio Fabbri

*Curriculum vitæ*
*07th of Jannury 2020*

## Personal informations


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| Born | April 10, 1979 in Cesena (Italy). |
| Nationalities | French (since the 31st of March 2019) and Italian. |
| Family situation | Married, one child (born in 2015). |
| Prof. Address | GAEL - CS 40700 - 38058 Grenoble CEDEX 9, France. |
| Pers. address | 2 Place de Gordes, 38000 Grenoble, France. |
| Telephone | +33 4 76 82 54 23. |
| Mobile | +33 6 52 96 66 23. |
| email address | giorgio.fabbri@univ-grenoble-alpes.fr. |
| site web | http://sites.google.com/site/giorgiofabbri1979/. |


## Education and positions

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|---|---|
| Oct 15 - Today | **Chargé de Recherche (CR, permanent position) CNRS, France**. |
| | **Oct 15 - Aug 17**, *Labo d'affectation: Aix-Marseille School of Economics.* |
| | **Sept 17 - Today**, *Labo d'affectation: GAEL - Laboratoire d'Économie Appiquée de Grenoble, France.* |
| Sep 12 - Aug 15 | **PRAS (PRofesseur ASssocié)**, *EPEE and Department of Economics, University "d'Evry - Val d'Essonne", France.* |
| Nov 08 - Aug 12 | **Assistant professor (permanent position)**, *University "Parthenope", Naples, Italy. Department of Economic Studies "S.Vinci".* |
| Jan 06 - Oct 08 | **Research fellow**, *University "Luiss - Guido Carli", Rome, Italy.* |
| Jan 07 - Jan 08 | **Research associate (post-doc)**, *University of the New South Wales, Sydney, Australia.* |
| Nov 02 - Oct 06 | **PhD student**, *University "La Sapienza", Rome, Italy. "Istituto Guido Castelnouvo".* |
| Oct 98 - Jul 02 | **Student**, *Scuola Normale Superiore (Pisa, Italy) and University of Pisa.* |

### Other

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|---|---|
| Dec 09 - Today | **Extramural fellow**, *IRES - Institut de Recherches Économiques et Sociales, Univ. Cat. de Louvain, Belgium.* |
| Aug 17 - Today | **Fellow**, *Global Labor Organization (GLO).* |
| 2013 - Today | Member of the ***Marco Fanno*** *alumni Association* |
| 2015 - Today | Member of the *Associazione Alunni, Ricercatori e Professori della* ***Scuola Normale Superiore di Pisa*** |

## Titles

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|---|---|
| 20 Dec 2006 | **PhD in Math** - University **La Sapienza**, Rome, Italy. Supervisor: prof. Fausto Gozzi. |
| 22 Jul 2002 | **Diploma** of the **Scuola Normale Superiore**, Pisa. Supervisor: prof. Fulvio Ricci, mark: 70/70 *cum laude* |
| 12 Jul 2002 | **Degree in Math** (4 years) - Università di Pisa. Supervisor: prof. Fulvio Ricci, mark: 110/110 *cum laude* |

### Other

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|---|---|
| 2018 | **Abilitazione nazionale** (Italie) *professore di prima fascia*, sections: *Economia Politica - 13/A1* |

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## Administrative and collective responsibilities

2011 - Today — Member of the **Ph.D. committee** of the Ph.D. in *Economics, management and accounting* of the University of Naples *Parthenope*

2012 - 2015 — Member of the **scientific committee of the Labex MME-DII** *Modèles Mathématiques et Économiques de la Dynamique, de l' Incertitude et des Interactions*.

2012 - 2015 — Member of the **board of the laboratory EPEE** , University Evry-Val d'Essonne (2012-2015).

## Study/research periods in other universities

### Four weeks or more

Centre d'Economie, **Université Paris I Panthéon-Sorbonne**. France (invited by Hippolyte d'Albis and Katheline Schubert). Department of Economic Sciences, **Universitè catholique de Louvain**. Belgium (invited by Raouf Boucekkine). Unité de Mathématiques appliquées - **Ecole Nationale Supérieure de Techniques Avancées** (ENSTA). Paris, France (invited by Francesco Russo). Department of Economics, **Istanbul Bilgi University**. Turkey (invited by Remzi Sanver). Applied Math department, **University of Pisa**. Italy (invited by Franco Flandoli and Fausto Gozzi). Math department, **Georgia Institute of Technology** (Gatech). GA. USA (invited by Andrzej Święch). G.R.E.Q.A.M. - **Aix-Marseille School of Economics, Universite Aix-Marseille**. France (invited by Raouf Boucekkine and Patrick Pintus), Dipartimento di Economia e Finanza - **Luiss - Guido Carli**, Rome. Italy (invited by Fausto Gozzi)

### Short periods

DISAE - **University of Naples *Parthenope***. Italie (invited by Michele Di Maio and Vincenzo Lombardo). University of Economics and Law **Vietnam National University**, Ho Chi Minh city, Vietnam (invited by Tien Dung Nguyen). School of Mathematics and Statistics **University of the New South Wales** - Sydney, Australia (invited by Benjamin Goldys).

## Organization of conference and workshop

2020 — Member of the organizing commitee of the **2nd European Congress on Agriculture and Food Science** October 01-02, 2020 Amsterdam, Netherlands

2020 — (Co)organizer of the **FAERE 2020 conference** (French Association of Environmental and Resource Economists) in Grenoble

2018 — (Co)organizer of the session **PDE Constrained Optimization in Economics** an the *14th Viennese Conference on Optimal Control and Dynamic Games* Vienna, July 3-6, 2018. Site web: https://orcos.tuwien.ac.at/events/vc2018.

2018 — (Co)organizer of the session **Infinite dimensional stochastic modeling in economics and finance** an the *14th Viennese Conference on Optimal Control and Dynamic Games* Vienna, July 3-6, 2018. Site web: https://orcos.tuwien.ac.at/events/vc2018.

2014 — (Co)organizer of the Workshop **Dynamic models for endogenous population**. Paris, 5 February 2014. Site web: https://sites.google.com/site/semestershade/population.

2014 — (Co)organizer of the Workshop **Network Dynamics and Public Goods** Paris, 24 January 2014. Site web: https://sites.google.com/site/semestershade/network-dynamics-and-coordination

2014 — (Co)organizer of the Workshop **Advances in dynamic interations** Paris, 16 January 2014. Site web: https://sites.google.com/site/semestershade/workshopgame

2014 — (Co)organizer of the Workshop **Finance in General Equilibrium** Paris, 10 January 2014. Site web: https://sites.google.com/site/semestershade/workshop-finance-in-general-equilibrium

2013 — (Co)organizer of the **Conference DIET** (Dynamic Interaction Economic Theory) Paris, 16 et 17 December 2013. Site web: https://sites.google.com/site/dietconference/

2012 — (Co)organizer of the **Journée dynamique** workshop. Evry, France. 8 November 2012

## Talks and seminars

workshop, 2019 — *Managing spatial linkages and geographic heterogeneity in dynamic models with transboundary pollution*, Space and Growth: Theoretical and Empirical Models, Pisa, Italy. Invited speech.

workshop, 2019 — *A spatiotemporal framework for the analytical study of optimal growth under transboundary pollution*, Heterogeneous Dynamic Models of Economic and Population, Wien, Austria

conference, 2019 — *A spatiotemporal framework for the analytical study of optimal growth under transboundary pollution*, ASSET conference, Athen, Grece

conference, 2019 — *Policies effectiveness in spatial resource wars: a two-region model*, APET Conference. Strasbourg, France

conference, 2019 — *HJB equations in infinite dimension and optimal control of stochastic evolution equations via generalized Fukushima decomposition*, DEA (Dynamics, Equations and Applications) conference. AGH University of Science and Technology, Kraków, Poland. Invited speech

seminar, 2019 — *Linear models of spatial distributed natural ressources*. Università Luiss G. Carli, Rome. Italy

conference, 2019 — *A note on competition for spatial distributed resources on networks*, 19th SAET Conference, Ischia, Italy

conference, 2018 — *A Spatial Model of Resource Wars: a Two-region Example*, 2018 Annual Meeting of ASSET. Florence, Italy

conference, 2018 — *A A note on competition for spatial distributed resources on networks*, 14th Viennese Conference on Optimal Control and Dynamic Games. Vienna, Austria.Invited speech

workshop, 2017 — *Some recent developments on endogenous spatial growth models*, "Mean Field Games, Spatial Economics, Equilibrium and Collective Decision". Cachan. Invited speech

workshop, 2017 — *A Spatial Model of Fish Wars*, "Croissance, Environnement et Population". Nanterre. France. Invited speech

conference, 2017 — *Heterogeneous entrepreneurs, government capabilities and the effectiveness of industrial policy*, 2017 Annual Meeting of ASSET. Alger, Algeria

workshop, 2017 — *HJB equations in infinite dimension and optimal control of stochastic evolution equations via generalized Fukushima decomposition*, "Finance and growth". Florence. Invited speech.

conference, 2017 — *The Value of Biodiversity as an Insurance Device*, "Real and financial interdependencies: new approaches with dynamic general equilibrium models", Paris, France. Invited speech.

conference, 2017 — *Optimal Economic Growth Through Capital Accumulation in a Spatially Heterogeneous Environment*, 2017 Africa Meeting of the Econometric Society. Alger, Algeria

conference, 2017 — *The Value of Biodiversity as an Insurance Device*, 17th SAET Conference, Faro, Portugal

seminar, 2017 — *Some recent developments on endogenous spatial growth models*, DSE - Dipartimento di Studi Economici, University of Bologna, Italy

seminar, 2017 — *Growth and agglomeration in the heterogeneous space: a generalized AK approach*, Laboratoire d'économie appliquées de Grenoble, University of Grenoble-Alpes. France

workshop, 2016 — *Some recent developments on endogenous spatial growth models*, "Viennese Vintage Workshop 2016". Vienna Institute of Demography. Wien, Austria. Invited speech

workshop, 2016 — *Some recent developments on endogenous spatial growth models*, "Financial and real interdependencies: volatility, inequalities and economic policies", Marseille, France. Invited speech

conference, 2016 — *Geographical structure and convergence: a note on geometry in spatial growth models*, "ASSET (Association of Southern European Economic Theorists) 2016 Conference". Thessaloniki, Greek

conference, 2016 — *Risk Sharing and Growth in Small-Open Economies*, "Conference in Macroeconomic Analysis and International Finance 2016". Rethymno, Greek

conference, 2016 — *Risk Sharing and Growth in Small-Open Economies*, Conference T2M "Theories and Methods in Macroeconomics ", Paris, France

seminar, 2016 — *Vintage structures*, GREQAM, Université d'AIX-MArseille. France

seminar, 2015 — *The optimal forestry management problem Problem in Continuous Time*, Centre d'Economie, Université Paris I Panthéon-Sorbonne. France

seminar, 2015 — *Le problème d'aménagement forestier de Mitra-Wan en temps continu*, LEDa - Université de Paris Dauphine. France

seminar, 2015 — *The optimal forestry management problem Problem in Continuous Time*, GREMARS, Université Lille 3 Charles-de-Gaulle

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| seminar, 2015 | *Ecological Barriers and Convergence: a Note on Geometry in Spatial Growth Models*, Centre d'Economie, Université Paris I Panthéon-Sorbonne. France |
| conference, 2014 | *Egalitarianism under population change: age structure does matter*, APET Conference. Seattle, United States. Invited speech |
| seminar, 2014 | *The optimal forestry management problem Problem in Continuous Time*, GATE, Lyon Saint-Etienne |
| seminar, 2014 | *Ecological barriers and convergence: a note on geometry in spacial growth models* Centre d'Economie, Université Paris I Panthéon-Sorbonne. France |
| seminar, 2014 | *Pricing the biodiversity in an endogenous growth framework*, EPEE, University of Evry-Val d'Essonne, Evry. France |
| conference, 2013 | *On the Mitra-Wan model in of forestry management in continuous time*, Workshop "Renewable resources, Sustainability, and Search" Heidelberg, Germany. Invited speech |
| conference, 2013 | *Short-run pain, long-run gain: the conditional welfare gains from international financial integration*, "Viennese Vintage Workshop 2013". Vienna Institute of Demography. Wien, Austria. Invited speech |
| conference, 2013 | *On the Mitra-Wan model in of forestry management in continuous time*, APET Conference. Lisbon, Portugal. Invited speech |
| conference, 2013 | *Egalitarianism under population change: the role of growth and lifetime span*, Conference T2M "Theories and Methods in Macroeconomics ", Lyon, France |
| conference, 2013 | *The optimal forestry management problem Problem in Continuous Time*, "Workshop in Dynamic Economics", Rennes, France. Invited speech |
| seminar, 2013 | *The spatial AK model in the general spatial framework*, Department of Economics, LUISS University, Rome. Italy |
| conference, 2012 | *The optimal forestry management problem Problem in Continuous Time*, "Journée dynamique", Evry, France. |
| conference, 2012 | *Egalitarism Under Population Change: the Role of Growth and Lifetime Span*, "Dynamics, economic growth and international trade (DEGIT XVII)". Milan, Italy |
| conference, 2012 | *Life span and the problem of optimal population size*, "12th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics". Wien, Austria. Invited speech |
| seminar, 2012 | *Structures and dynamics of the space*, Centre d'Economie, Université Paris I Panthéon-Sorbonne. France |
| seminar, 2012 | *The optimal forestry management problem Problem in Continuous Time*, Ecole Nationale Supérieure des Techniques Avancées, ENSTA-ParisTech, Paris, France |
| seminar, 2012 | *Spatial dynamics and convergence: The spatial AK model*, THEMA (THéorie Économique, Modélisation et Application), Université de Cergy-Pontoise. France |
| seminar, 2012 | *Life span and the problem of optimal population size*, Centre d'Economie, Université Paris I Panthéon-Sorbonne. France |
| conference, 2011 | *Leapfrogging, Growth Reversals and Welfare*, XXXV convegno AMASES". Pisa, Italy |
| conference, 2011 | *On the Mitra-Wan Forest Management Problem in Continuous Time*, XXXV convegno AMASES". Pisa, Italy |
| summer s., 2011 | *A dynamic programming result for optimal control problems driven by stochastic partial differential equations*, "Stochastic control and related PDEs" Summer School. Bicocca University, Milan, Italy |
| conference, 2011 | *Leapfrogging, Growth Reversals and Welfare*, "Conference in Macroeconomic Analysis and International Finance 2011". Rethymno, Greek |
| seminar, 2011 | *Leapfrogging, Growth Reversals and Welfare: an example of an optimal control problem driven by a neutral differential equation arising in economic modeling*, Ecole Nationale Supérieure des Techniques Avancées, ENSTA-ParisTech, Paris, France |
| conference, 2010 | *Maintenance and Investment: Complements or Substitutes? A Reappraisal*, "Riunione scientifica annuale SIE". Catania, Italy |
| conference, 2010 | *Optimal population problem and endogenous growth: re-assessing the Parfit's* repugnant conclusion, "24th European conference on operational research (Euro XXIV)". Lisbon, Portugal. Invited speech |
| conference, 2010 | *Optimal population problem: the role of finite life*, "24th European conference on operational research (Euro XXIV)". Lisbon, Portugal. Invited speech |
| seminar, 2010 | *Dynamic programming in Hilbert spaces for studying growth models with heterogeneous capital*, Department of Economics, Istanbul Bilgi University, Istanbul, Turkey |
| seminar, 2010 | *Dynamic programming in Hilbert spaces for studying growth models with heterogeneous capital*, Department of Applied Mathematics (DMA), University of Venice, Italy |

seminar, 2010 *Portfolio Optimization with Execution Delay*, Ecole Nationale Supérieure des Techniques Avancées, ENSTA-ParisTech, Paris, France

conference, 2009 *Optimal population problem and endogenous growth: re-assessing the Parfit's* repugnant conclusion, "VID Viennese Vintage Workshop". Vienna Institute of Demography. Wien, Austria. Invited speech

conference, 2009 *Maintenance and Investment: Complements or Substitutes? A Reappraisal*, XXXIII convegno AMASES". Parma, Italy

seminar, 2009 *A linear quadratic problem for an heat equation with Dirichlet boundary control and noise*, Department of Mathematics, Universidade Federal Fluminense, Rio de Janeiro, Brasil

conference, 2008 *A viscosity solution approach to the infinite dimensional HJB equation related to a boundary control problem in transport equation*, Conference "Differential Equations and Topology". Moscow, Russia. Invited speech

conference, 2008 *A viscosity solution approach to the infinite dimensional HJB equation related to a boundary control problem in transport equation*, "Conference on Decision and Control (CDC08)". Cancun, Messico. Note: the talk, already scheduled in the conference program, has been deleted thanks to lack of research funds for travel reimbursement

seminar, 2008 *Dynamic Programming in a time-to-build model*, Department of Economics, LUISS University, Rome. Italy

conference, 2007 *An infinite dimensional approach for an arbitrage free implied volatilities model*, XXXI convegno AMASES". Lecce, Italy

conference, 2007 *An Infinite Dimensional Approach for an Arbitrage Free Implied Volatilities Model*, "Quantitative Methods in Finance". Sydney, Australia. Note: the talk, already scheduled in the conference program, has been deleted due to lack of research funds for paying the conference fee

seminar, 2007 *An Infinite Dimensional Approach for an Arbitrage Free Implied Volatilities Model*, School of mathematics and statistics, University of the New South Wales, Sydney. Australia

seminar, 2007 *A verification result in the framework of viscosity solutions for infinite dimensional Hamilton-Jacobi-Bellman equation*, School of mathematics and statistics, University of the New South Wales, Sydney. Australia

conference, 2006 *An AK growth model with vintage capital: a dynamic programming approach*, XXX convegno AMASES". Trieste, Italy

seminar, 2006 *First order HJB equations in Hilbert spaces and applications*, Department of Mathematics, University of Rome "La Sapienza", Rome. Italy

conference, 2005 *Dynamic programming methods for optimal control problem of PDE arising in economics*, "22nd IFIP TC 7 Conference on System Modeling and Optimization". Turin, Italy

conference, 2005 *A Vintage model with obsolescence: a dynamic programming approach*, "Vintage Modeling in Economics and Economic Demography", European University Institute, Florence, Italy. Invited speech

conference, 2005 *An abstract setting for a growth model with innovation and depreciation*, "Viennese Vintage Workshop 2005". Vienna Institute of Demography. Wien, Austria. Invited speech

conference, 2004 *On some optimal control problem with delay arising from economics*, "Workshop on Kolmogorov equation". University of Parma. Italy

## Attendences at meetings, schools, conference without giving talks

2019 *Workshop "Tribute to Carine Nourry"*. Marseille. France.

2018 *FAERE 2018 Conference*. Aix-en-Provence. France.

2016 *3rd International Conference in Economic Philosophy*. Aix-en-Provence. France.

2016 *15e Journées Louis-André Gérard-Varet - Conférence en économie publique*. Aix-en-Provence. France.

2014 *Summer Workshop in Economic Theory - SWET14*. Paris. France.

2014 *XXIII European Workshop on General Equilibrium Theory - EWGET 2014*. Paris. France.

2010 Serie of lessons *Trimestre sur le Contrôle des Equations aux Dérivées Partielles et Applications* (two weeks). Paris. France.

2009 Conference *Poverty traps, an empirical and theoretical assessment*. Discussant for a paper. Naples. Italy.

2008 School *Risk theory and related topics* (10 days) organized by European Mathematical Society. Bedlevo. Poland.

2008 Conference *Stochastic Partial Differential Equations and Applications - VIII*. Poster session participation, poster title: *An Infinite Dimensional Approach for an Arbitrage Free Implied Volatilities Model*. Levico Terme. Italy.

2006 Serie of lessons *Stochastic Analysis, Stochastic Partial Differential Equations and Applications to Fluid Dynamics and Particle Systems* (A series of lessons within the research semester). Centro de Giorgi, Pisa. Italy.

2004 Workshop *Boundary control and optimization*. Centro de Giorgi, Pisa. Italy.

2004 School *Stochastic finance 2004* (one week). Department of Mathematics. University of Coimbra. Coimbra. Portugal.

2004 Conference *Stochastic finance 2004*. Instituto Superior de Economia e Gestao. Lisbon. Portugal.

2003 Series of lessons *Cattedra Galileiana 2003: Stochastic Optimal Control Methods in Finance*. Scuola Normale Superiore. Pisa. Italy.

2003 School *Foundations and developments of economic mathematics* (15 days). Organized by the department of economics of University of Naples "Federico II". Pozzuoli. Italy.

2003 Workshop *Age-Structured Models in Population Dynamics and Economics*. Vienna. Austria.

## Participation in national and international research projects and research groups

### Head/direction of projects

2019-2020 Head of a project *Initiatives de Recherche Stratégiques (IRS) - IDEX Université Grenoble Alpes*. Title *The spatial strategic game of transboundary pollution dynamics and the local efficiency hypothesis*

2018-2019 Head of a project *Initiatives de Recherche Stratégiques (IRS) - IDEX Université Grenoble Alpes*. Title *Strategic behaviour and regulation in the management of common goods distributed in space: the case of fisheries resources* (original title in French: *Comportements stratégiques et réglementation dans la gestion des bien communs distribués dans l'espace : le cas des ressources halieutiques*).

2013, renewed in 2014 Head of a project *PEPS HuMaIn 2013 - CNRS*. Title *L'économie de la biodiversité dans un modèle de culture optimal*.

2013-2014 (Co)responsable of the Semester thematic SHADE (Strategic/Heterogeneous Agent in Dynamic Economies), financed by the LABEX MME-DII. Paris - Evry September 2013 - Febrary 2014. Site web: https://sites.google.com/site/semestershade.

### Personal fundings and prizes

2019-2020 Projet "exploratoire" *Dynamic strategic interaction in regional air polluting economic activities with spatial externalities* financed by the *Labex MME-DII*

2015-2019 Prize for the scientific research of the CNRS (Centre National de la Recherche Scientifique - France) *Prime d'encadrement doctoral et de recherche (PEDR)*

2015 Financing of the city of Marseille for installation *Allocation Chercheurs 2015-2016*

2014-2015 *Délégation - Labex MME-DII*: funding to finance a reduction in my teaching time to complete the book *Stochastic Optimal Control in Infinite Dimensions*

2014 Personal grant of the Université of Evry-Val d'Essonne *Fonds pour le Rayonnement de la Recherch*. Title of the project *Hétérogénéité des entrepreneurs, qualité du gouvernement et efficacité de la politique industrielle*.

2012, renewed in 2013 Personal grant *Unicredit's Post-Doc Research Grant*. Title: *International borrowing without commitment: volatility of capital inflow and welfare*.

1998 - 2002 Scholarship at the Scuola Normale Superiore (Pisa, Italy)

### Participant/member of projects

2016-2017 Partifipant of the project *Network Connections in Peer-to-Peer Lending* funded by a grants of the *Institute Europlace de Finance* - LABEX *Louis Bachelier*, France. Head: Ester Faia.

2012-2018 Participant of the project *Heterogeneity, Dualism and Growth* funded by the *Legge 5 - Regione Campania (Italy)*. Head: Michele Di Maio.

2015-2018 Member of the Labex AMSE - *Aix-Marseille School of Economics*. Head: Alain Trannoy

2012 - today Member of the Labex MME-DII - *Modèles Mathématiques et Économiques de la Dynamique, de l'Incertitude et des Interactions*. Head: Arnoud Lefranc and Ani Guerdjikova

2013-2015 Participant of the project *Evolution differential problems: deterministic and stochastic approaches and their interactions*, funded by an italia grant *PRIN* (PRIN, "Programmi di Ricerca di Interesse Nazionale", are national research projects funded by italian ministry of university). Head: Marco Furhman.

2009-2012 Participant of the project *Control of Partial Differential Equations*, GDRE - *Groupement De Recherche Europeenne* Italo-French [INdAM-CNRS]. Head: Piermarco Cannarsa.

2010-2011 Participant of the project *Deterministic ans stochastic methods in studying evolution problems*, funded by an talian grant *PRIN* (2008). Head: Alessandra Lunardi.

2007-2008 Participant of the project *Optimization and control methods for the management of public debt; static and dynamics models*, funded by an italian grant *PRIN* (2006). Head: Fausto Gozzi.

2005-2011 Member of the Group GNAMPA *National group for mathematical analysis, probability and their applications* - INdAM *National institute of high mathematics*.

# Didactics

## Referee for Ph.D. thesis

| | |
|---|---|
| Title | Infinite horizon optimal control problems with non-compact control space. Existence results and dynamic programming. |
| degree | Ph.D. in Mathematics, University of Pise (Italy) |
| candidates | Francesco BARTALONI |
| place and year | 2019/2020 |

| | |
|---|---|
| Title | Four essays in economic development and finance |
| degree | PhD in Economics and Finance, University *Tor Vergata*, Rome (Italy) |
| candidates | Enrico LUPI |
| place and year | 2018/2019 |

## Supervisor of master degrees

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|---|---|
| Title | Competition, credit constraint, and growth. |
| degree | Master M1 (Master *Advanced Economics* de l'ENS Lyon) |
| candidates | Juliette COLY |
| place and year | Ecole Normale Supérieure de Lyon, 2018/2019 |

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|---|---|
| Title | Arbitrage Pricing for Financial Derivatives in Continuous Time |
| degree | Master (Mémoire de master M1 mention *Finance*) |
| candidates | Jean-Claude HOUEDJISSIN |
| place and year | Université d'Evry - Val d'Essonne, 2014/2015 |

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|---|---|
| Title | Arbitrage and martingale measure in financial markets |
| degree | Master (Mémoire de master M1 mention *Finance*) |
| candidate | TÔ Quang Tùng |
| place and year | Université d'Evry - Val d'Essonne, 2014/2015 |

| | |
|---|---|
| Title | Arbitrage Pricing for Financial Derivatives in Continuous Time |
| degree | Master (Mémoire de master M1 mention *Finance*) |
| candidates | Naom ARON, Mamadou Bhoye BAH |
| place and year | Université d'Evry - Val d'Essonne, 2013/2014 |

| | |
|---|---|
| Title | Modélisation des risques de Marché : la Value at Risk |
| degree | Master (Mémoire de master M1 mention *Finance*) |
| candidate | Yul-Elkin WONG-GAR-HENG |
| place and year | Université d'Evry - Val d'Essonne, 2013/2014 |

## Courses

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|---|---|
| course | **Intertemporal choice and investmment decision under uncertainty** - Ph.D. (english) |
| place | Université de Grenoble-Alpes |
| year | 2019/2020 |

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|---|---|
| course | **Macroeconomics 2 (open macroeconomics)** - M1 (english) |
| place | Ecole Normale Supérieure de Lyon |
| year | 2018/2019, 2019/2020 |

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|---|---|
| course | **Stochastic processes and applications to finance** - M2 (french) |
| place | Université d'Evry - Val d'Essonne |
| year | 2014/2015 |

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|---|---|
| course | **Economy of asset pricing** - M1 (french and english) |
| place | Université d'Evry - Val d'Essonne |

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| year | 2014/2015, 2014/2014 |
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| course | **Macroeconomics** - L3 (french) |
| place | Université d'Evry - Val d'Essonne |
| year | 2014/2015, 2013/2014, 2012/2013 |
| | |
| course | **Teaching assistant (TD) for a course in Growth Theory** - L2 (french) |
| place | Université d'Evry - Val d'Essonne |
| year | 2014/2015 |
| | |
| course | **Teaching assistant (TD) for a course in Microeconomics** - L1 (french) |
| place | Université d'Evry - Val d'Essonne |
| year | 2013/2014, 2012/2013 |
| | |
| course | **Mathematical methods** - L1 (french) |
| place | Université d'Evry - Val d'Essonne |
| year | 2013/2014 |
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| course | **Microeconomics and games** - M1 (english) |
| place | Vietnam National University, Ho Chi Minh city, Vietnam |
| year | 2012/2013 |
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| course | **Half of a course in "Macroeconomics"** - M1 (french) |
| place | Université d'Evry - Val d'Essonne |
| year | 2012/2013 |
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| course | **Statistics** - L2 (Cours/TD) (french) |
| place | Université d'Evry - Val d'Essonne |
| year | 2012/2013 |
| | |
| course | **Institutions of political economy** (italian) |
| place | University of Naples *Parthenope* |
| year | 2011/2012 |
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| course | **A third of a course in "Microeconomics"** (italian) |
| place | University of Naples *Parthenope* |
| year | 2011/2012 |
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| note | In the academic year **2010/2011** I joined the national protest of italian researchers to oppose the attack of Berlusconi's government against italian public university and then refused to teach any course |
| year | 2010/2011 |
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| course | **Growth theory** (italian) |
| place | University of Naples *Parthenope* |
| year | 2009/2010 |
| | |
| course | **Topics in optimal control theory** (italian) |
| place | Short course to Ph.D. students at University of Naples *Parthenope* |
| year | 2008/2009 |
| | |
| course | **Development economics** (italian) |
| place | University of Naples *Parthenope* |
| year | 2008/2009 |
| | |
| course | **Teaching assistant for "Pre-course in quantitative methods"** (english) |
| place | LUISS - G.Carli, Rome |
| year | 2008/2009 |
| note | within the "Master of Sciences in Economics" |

## Referee activity

Referee for: Journal of Economic Theory, Journal of European Economic Association, American Journal of Agricultural Economics, Economic Theory, Journal of Economic Dynamics and Control, Journal of Mathematical Economics, Journal of Population Economics, Revue Économique, Southern Economic Journal, Economic Letters, Mathematical Social Sciences, Journal of Public Economic Theory, B.E. Journal of Theoretical Economics, Research in Economics, Mathematical Population Studies, Journal of Mathematics and Mathematical Sciences, Natural Resource Modeling, Journal of Mathematical Analysis and Applications, Stochastic Processes and their Applications, SIAM journal on Control and Optimization, ESAIM: Control, Optimization and Calculus of Variations, Journal of Evolution Equations, Journal of Applied Probability/Advances in Applied Probability, Journal of Optimization Theory and Applications, Annals of Operations Research, Nonlinear Analysis Series B: Real world applications, Reviewer for Mathematical Reviews (Mathscinet).

## Publications

### Books

*B*1) G. Fabbri, F. Gozzi and A. Święch Stochastic Optimal Control in Infinite Dimensions: Dynamic Programming and HJB Equations. *Probability Theory and Stochastic Modelling*, vol. 82, XXIV+916 pages, Springer, Berlin. (The whole book is written by Fabbri, Gozzi and Święch, with the exception of Chapter 6 that is a contribution of M. Fuhrman and G. Tessitore)

### Papers in peer-reviewed journals

*A*1) G. Fabbri, S. Faggiian and G. Freni Policy effectiveness in spatial resource wars: a two-region model. **Journal of Economic Dynamics and Control**, to appear.

*A*2) R. Boucekkine, G. Fabbri, F. Gozzi and S. Federico. Optimal Economic Growth Through Capital Accumulation in a Spatially Heterogeneous Environment. **Journal of Economic Geography**, to appear.

*A*3) E. Augeraud-Veron, G. Fabbri and K. Schubert The value of biodiversity as an insurance device. **American Journal of Agricultural Economics**, 101(4):1068–1081, 2019.

*A*4) R. Boucekkine, G. Fabbri, F. Gozzi and S. Federico. Geographic Environmental Kuznets Curves: the optimal growth linear-quadratic case. **Mathematical Modelling of Natural Phenomena**, 14(1):105, 2019.

*A*5) R. Boucekkine, G. Fabbri, and P. Pintus. Short-run pain, long-run gain: the conditional welfare gains from international financial integration. **Economic Theory**, 65(2):329-360, 2018.

*A*6) G. Fabbri, and F. Russo. HJB equations in infinite dimension and optimal control of stochastic evolution equations via generalized Fukushima decomposition **SIAM journal on Control and Optimization**, 55-6 (2017):4072-4091, 2017.

*A*7) G. Fabbri, S. Faggian, G. Freni Non-existence of optimal programs for undiscounted growth models in continuous time. **Economics Letters**, 152:57-61, 2017.

*A*8) G. Fabbri International borrowing without commitment and informational lags: choice under uncertainty. **Journal of Mathematical Economics**, 68:103-114, 2017.

*A*9) G. Fabbri and F. Russo Infinite dimensional weak Dirichlet processes and convolution type processes **Stochastic Processes and their Applications**, 127(1):325-357, 2017.

*A*10) G. Fabbri Ecological Barriers and Convergence: a Note on Geometry in Spatial Growth Models. **Journal of Economic Theory**, **162**:114-136, 2016.

*A*11) G. Fabbri, S. Faggian, G. Freni On the Mitra-Wan model of forestry management in continuous time. **Journal of Economic Theory**, **157**:1001-1040, 2015.

*A*12) R. Boucekkine, G. Fabbri, and F. Gozzi. Egalitarianism under population change: age structure does matter. **Journal of Mathematical Economics**, 55(1):86–100, 2014

*A*13) G. Fabbri, S. Federico. On the Infinite-Dimensional Representation of Stochastic Controlled Systems with Delayed Control in the Diffusion Term. **Mathematical Economics Letter**, 2(3-4):33–43, 2014.

*A*14) C. Di Girolami, G. Fabbri and F. Russo. The covariation for Banach space valued processes and applications. **Metrika**, 77(1):51–104, 2014.

*A*15) R. Boucekkine, G. Fabbri, and P. Pintus. Growth and financial liberalization under capital collateral constraints: The striking case of the stochastic AK model with CARA preferences. **Economics Letters**, 122(2):303–307, 2014.

*A*16) R. Boucekkine, C. Camacho, and G. Fabbri. On the optimal control of some parabolic differential equations arising in economics **Serdica Mathematical Journal**, special issue in honor of Vladimir Veliov, 39(3-4):331–354, 2013.

*A*17) R. Boucekkine, C. Camacho, and G. Fabbri. Spatial dynamics and convergence: The spatial ak model. **Journal of Economic Theory**, **148**(6):2719–2736, 2013.

*A*18) M. Di Maio and G. Fabbri. Product boycott, household heterogeneity and child labor. **Journal of Population Economics**, 26(4):1609–1630, 2013.

*A*19) R. Boucekkine and G. Fabbri. Assessing parfit's *Repugnant Conclusion* within a canonical endogenous growth set-up. **Journal of Population Economics**, 26(2):761–767, 2013.

*A*20) R. Boucekkine, G. Fabbri, and P. Pintus. On the optimal control of a linear neutral differential equation arising in economics. **Optimal Control Applications and Methods**, 33(5):511–530, 2012.

*A*21) M. Bambi, G. Fabbri, and F. Gozzi. Optimal policy and consumption smoothing effects in the time-to-build AK model. **Economic Theory**, 50(3):635–669, 2012.

*A*22) R. Boucekkine, G. Fabbri, and F. Gozzi. Revisiting the optimal population size problem under endogenous growth: minimal utility level and finite life. **Asia-Pacific Journal of Accounting & Economics**, Special issue edited by Kazuo Nishimura, 18(3):287–306, 2011.

*A*23) R. Boucekkine, G. Fabbri, and F. Gozzi. Maintenance and investment: Complements or substitutes? a reappraisal. **Journal of Economic Dynamics and Control**, 34(12):2420–2439, 2010.

*A*24) G. Fabbri, F. Gozzi, and A. Swiech. Verification theorem and construction of $\varepsilon$-optimal controls for control of abstract evolution equations. **Journal of Convex Analysis**, 17(2):611–642, 2010.

*A*25) G. Fabbri and B. Goldys. An LQ problem for the heat equation on the halfline with Dirichlet boundary control and noise. **SIAM Journal on Control and Optimization**, 48(3):1473–1488, 2009.

*A*26) G. Fabbri and F. Gozzi. Solving optimal growth models with vintage capital: The dynamic programming approach. **Journal of Economic Theory**, 143(1):331–373, 2008.

*A*27) G. Fabbri. A Viscosity Solution Approach to the Infinite-Dimensional HJB Equation Related to a Boundary Control Problem in a Transport Equation. **SIAM Journal on Control and Optimization**, 47:1022–1052, 2008.

*A*28) G. Fabbri. Viscosity Solutions to Delay Differential Equations in Demo-Economy. **Mathematical Population Studies**, 15(1):27–54, 2008.

*A*29) G. Fabbri, F. Gozzi, and S. Faggian. On the dynamic programming approach to economic models governed by ddes. **Mathematical Population Studies**, 15(4):267–290, 2008.

## Papers in collections

*C*1) G. Fabbri. A dynamic programming approach in hilbert spaces for a family of applied delay optimal control problems. In R. Glowinski and J.P. Zolesio., editors, *Free and Moving Boundaries: Analysis, Simulation and Control*, volume 252 of *Lecture Notes in Pure and Applied Mathematics*, pages 375–394. 2007.

## Submitted works or preprint

-*Building Bridges for the Adoption of Deep Green Environmental Measures: The Impact of Specialized Knowledge Brokers* [with Paolo Melindi-Ghidi and Tom Dedeurwaerdere]

- *Heterogeneous Entrepreneurs, Government Quality and Optimal Industrial Policy* [with Michele Di Maio and Vincenzo Lombardo]
- *Risk Sharing and Growth in Small-Open Economies* [avec Raouf Boucekkine and Patrick Pintus]
- *An infinite dimensional approach for an arbitrage free implied volatilities model* [with Alan Brace and Benjamin Goldys]
- *From firm to global-level pollution control: the case of transboundary pollution* [with Raouf Boucekkine, Salvatore Federico and Fausto Gozzi]
- *Managing spatial linkages and geographic heterogeneity in dynamic models with transboundary pollution* [with Raouf Boucekkine, Salvatore Federico and Fausto Gozzi]