

CURRICULUM VITAE

Jean-Marc BONNISSEAU

Born December 4, 1957

French citizen
three children

Professional address

Paris School of Economics
Centre d'Economie de la Sorbonne, UMR CNRS 8174
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Positions

Since October 1990, Professor in applied mathematics at Université Paris 1 Panthéon-Sorbonne,
October 1989-September 1990, Assistant Professor at Université Paris 1
October 1984-September 1989, Teaching assistant at Université Paris 1

Research centers

2006- Centre d'Economie de la Sorbonne, UMR CNRS 8174
1984-2005 CERMSEM, UMR CNRS 8095, Université Paris 1
January 1990-January 1994, member of Laboratoire d'Econométrie de l'Ecole Polytechnique
October 1986-September 1988, fellowship at CORE, Université Catholique de Louvain

Training

Ecole Normale Supérieure de Saint-Cloud (1978-1982)
Maîtrise of Mathematics at Université Paris XI (1980)
Agrégation in Mathematics (1981)
Diplôme d'Etudes Approfondies in Applied Mathematics and Social Sciences at Université Paris IX (1984)
PhD in applied mathematics, Université Paris 1 (1988)
Habilitation à Diriger des Recherches in Mathématiques, Université Paris 1 (1990)

PhD Dissertation : *Existence of equilibria: the case of non-convex production sets*, Université Paris 1 (June 3, 1988). Jury: Y. Balasko, B. Cornet (Advisor), G. Debreu (Président), C. Fourgeaud, R. Guesnerie, C. Henry, B. Maurey.

Habilitation à Diriger des Recherches : *General Equilibrium Theory and non convex production sets*, Université Paris 1 Panthéon-Sorbonne (January 16, 1990). Jury: A.

Auslender, Y. Balasko, M. Balinski, B. Cornet (Advisor), G. Haddad, R. Guesnerie (Président) and J. M. Lasry.

Publications

Articles in International Journals

- [1] "Existence of Equilibria when Firms Follow Bounded Losses Pricing Rules", (with B. Cornet), *Journal of Mathematical Economics*, 17, 119-147, (1988).
- [2] "Valuation Equilibrium and Pareto Optimum in Nonconvex Economies", (with B. Cornet), *Journal of Mathematical Economics*, 17, 293-308, (1988).
- [3] "On two existence results of equilibria in economies with increasing returns", *Journal of Mathematical Economics*, 17, 193-207, (1988).
- [4] "Fixed-Point Theorems and Morse's Lemma for Lipschitzian Functions", (with B. Cornet), *Journal of Mathematical Analysis and Applications*, 146, 318-332, (1990).
- [5] "Existence of marginal cost pricing equilibria in an economy with several nonconvex firms" (with B. Cornet), *Econometrica*, 58, 661-682, (1990).
- [6] "Existence of marginal cost pricing equilibria: the nonsmooth case", (with B. Cornet), *International Economic Review*, 31, 685-708, (1990).
- [7] "Equilibrium with quantity targets", *Journal of Mathematical Analysis and Applications*, 151, 532-549, (1990).
- [8] "Existence of Lindahl equilibrium in economies with non-convex production sets", *Journal of Economic Theory*, 54, 409-416, (1991).
- [9] "Existence of equilibria in presence of increasing returns: a synthesis", *Journal of Mathematical Economics*, 21, 441-452, (1992).
- [10] "Tarification du raccordement et développement d'un réseau", *Communications et Stratégies*, 9, 51-66, (1993).
- [11] "Caractérisation des optima de Pareto dans une économie with effets externes", *Annales d'Economie et de Statistique*, 36, 97-112, (1994).
- [12] "Subdifferentiability of the value function in economic problems", *The Southeast Asian Bulletin of Mathematics*, 19, 107-116, (1995), with C. Le Van.
- [13] "On the subdifferential of the value function in economic optimization problems", *Journal of Mathematical Economics*, 25, 55-73, (1996), with C. Le Van.
- [14] "Une approche générale de l'externalité dans un réseau de communication", *Annales d'Economie et de Statistique*, 46, 183-202, (1997), with N. Chabchoub.
- [15] "Existence of equilibria in economies with externalities and non-convexities", *Set-Valued Analysis*, 5, 209-226, (1997).

- [16] "Existence of Equilibria in Economies with Increasing Returns and Infinitely Many Commodities", *Journal of Mathematical Economics*, 31, 287-307, (1999), with M. Meddeb.
- [17] "Continuity and uniqueness of equilibria for linear exchange economies", *Journal of Optimization Theory and Applications*, 109, 237-263, (2001), with M. Florig et A. Jofré.
- [18] "Differentiability of equilibria for linear exchange economies", *Journal of Optimization Theory and Applications*, 109, 263-288, (2001), with M. Florig et A. Jofré.
- [19] "Existence of Marginal Cost Pricing Equilibria in Economies with Externalities and Non-convexities", *Journal of Mathematical Economics*, (2001), 36, 271-294, with J.P. Médecin.
- [20] "The Marginal Pricing Rule in Economies with Infinitely Many Commodities", *Positivity*. (2002), 6, 275-296.
- [21] "Existence and Optimality of Oligopoly Equilibria in Linear Exchange Economies", *Economic Theory*, 22, 727-741, (2003), with Michael Florig.
- [22] "Regular Economies with Non-Ordered Preferences", *Journal of Mathematical Economics*. (2003), 39, 153-174.
- [23] "The Equilibrium Manifold with Boundary Constraints on the Consumption Set", *Estudios de Economía*, 30, 225-240, (2003) with J. Rivera-Cayupi.
- [24] "On the objective of firms under uncertainty with stock markets", *Journal of Mathematical Economics*, 40, 493-513, (2004) with Oussama Lachiri.
- [25] "Boundary behaviour of equilibria for linear exchange economies", *Journal of Convex Analysis*, 12, 465-476, (2005) with Michael Florig.
- [26] "Non-Existence of Duopoly Equilibria: A Simple Numerical Example", *Journal of Economics*, 85, 65-71, (2005) with Michael Florig.
- [27] "Constrained Consumption, Lipschitzian Demands and Regular Economies", to appear in *Journal of Optimization Theory and Applications*, (2006), with Jorge Rivera-Cayupi.
- [28] "On the Characterization of Efficient Production Vectors", to appear in *Economic Theory* (2006), with Bertrand Crettez.
- [29] "About the second theorem of welfare economics with stock markets", *Pacific Journal of Optimization*, 2, 469-485, (2006), with Oussama Lachiri
- [30] "The marginal pricing rule revisited", to appear (Online) in *Economic Theory* (2006), with Bernard Cornet and Marc-Olivier Czarnecki

[31] "Vertical Differentiation: Multiproduct Strategy to Face Entry?" The B.E. Journal of Theoretical Economics, 6, article 15, (2006), avec Rim Lahmandi-Ayed
<http://www.bepress.com/bejte/topics/vol6/iss1/art15>

[32] "Payoff-dependent Balancedness and Cores" to appear (online) in Games and Economic Behavior, (2007) with Vincent Iehlé

[33] "Existence of Equilibria with a Tight Marginal Pricing Rule", to appear in Journal of Mathematical Economics, with Bernard Cornet

[34] « Vertical Differentiation with non-uniform consumers' distribution, to appear in International Journal of Economic Theory, with Rim Lahmandi-Ayed

Chapters of book or proceedings of conferences

[1] "General Equilibrium Theory with Increasing Returns: the Existence Problem" (with B. Cornet), *Equilibrium Theory and Applications, proceedings of the Sixth International Symposium in Economic Theory and Econometrics*, Barnett et al. eds, Cambridge University Press, 65-82, (1991).

[2] "Equilibre général dans une économie with ensembles de production non convexes", Actes des 6ème journées du Groupe MODE, Atlantique, Poitiers, (1999).

Working papers

[1] "A remark on the existence of equilibria in economies with increasing returns", working paper CERMSEM, Université Paris 1 (1988).

[2] "On the existence problem in a two goods economy", working paper CERMSEM, Université Paris 1 (1989).

[3] "Topological properties of strict M-sets", working paper CERMSEM, Université Paris 1 (1991).

[4] "An Oligopolistic Exchange Process ", Cahier Eco-Maths, Université Paris 1, (1997), with M. Florig.

[5] " Economie et réseaux : deux applications pour France-Télécom et EDF", Cahier Eco-Maths, Université Paris 1, (1998).

[6] "A new proof for the nonemptiness of the core of a cooperative game", Cahier Eco-Maths, Université Paris 1, (2001).

[7] "Drèze's Criterion in a Multi-Periods Economy With Stock Markets", Cahier de la MSE 2002.98, Université Paris 1, (2002), with Oussama Lachiri.

[8] "Multiproduct Firms in Vertically Differentiated markets", Cahier de la MSE 2002.119, Université Paris 1, (2002), with Rim Lahmandi-Ayed.

[9] "The survival assumption in the existence problem of equilibria under increasing returns", Cahier de la MSE 2003.44, Université Paris 1, (2003), with Alexandrine Jamin.

[10] "General equilibrium theory and increasing returns : an alternative to the survival assumption", Cahier de la MSE 2004.17, Université Paris 1, (2004), with Alexandrine Jamin.

[11] "A note on the Drèze's criterion for large capitalist firms", Cahier de la MSE 2004-120, Université Paris 1, (2004), with Oussama Lachiri.

[12] "Monopole, stratégie multiproduite et incitation à investir en recherche et développement", Cahier de la MSE 2005-25, Université Paris 1, (2005), with Hend Ghazzai.

[13] "Equilibria with increasing returns: sufficient Conditions on Bounded Production Allocations", Cahier de la MSE 2005-45, Université Paris 1, (2005), with Alexandrine Jamin.

[14] "Competitive equilibria with consumption possibility depending on endowments : a global analysis", Cahier de la MSE 2005-85, Université Paris 1, (2005) with Elena L. del Mercato.

[15] "Existence d'un équilibre de Nash dans un jeu discontinu", Cahier de la MSE 2005-99, Université Paris 1, (2005) with Pascal Gourdel et Hakim Hammami.

PhD under my supervision

PhD Ecole Polytechnique, Rim Lahmandi-Ayed, Imperfect competition and economic efficiency: oligopoly equilibria, vertical differentiation and dynamic games with entry, September, 19 1995, jury : J.M. Bonnisseau, E. Jouini, M. Moreaux, J.P. Ponssard, J.F. Thisse.

PhD Université de Paris 1, Moncef Meddeb, General equilibrium and non-convex production sets: non linear pricing, large numbers of goods and network externality, January 12, 1996, jury : J.M. Bonnisseau, Bernard Cornet, Monique Florenzano, Bernard Maurey (President), Lionel Thibault.

PhD, Université de Paris 1, Michael Florig, Contributions to the general equilibrium theory: generalized equilibria, linear exchange economies and imperfect competition, October 17, 1997, jury : Y. Balasko (President), J.M. Bonnisseau, B. Cornet, M. Florenzano, C. Herves Beloso, H. Keiding.

PhD, Université de Paris 1 and Universidad de Chili a Santiago, Jorge Rivera-Cayupi, Applications of non-smooth optimization to mathematical economics, co-advisor A. Jofré, December 10, 1999, Jury : J.M. Bonnisseau, R. Comminetti, M. Florenzano, A. Jofré, R.T. Rockafellar, R. Wets (President).

PhD, Université Paris 1, Isabelle Lefebvre, Application of the fixed point theory to a direct approach of the non emptiness of the core of an economy, September 12, 2000,

Jury : J. Abdou, R. Anderson, J.M. Bonnisseau, M. Florenzano, F. Forges, J. Gabszewicz, M. Lassonde.

PhD, Université Paris 1, Oussama Lachiri, On the behavior of the firm in an economy with uncertainty: a general equilibrium approach, March 12, 2004, Jury: Jean-Marc Bonnisseau, Alessandro Citanna, Bernard Cornet (president), Cuong Le Van, Lionel Thibault.

PhD, Université Paris 1, Vincent Iéhlé, Coeur et balancement dépendant: théorie et applications, December 14, 2004, Jury: Joseph Abdou, Jean-Marc Bonnisseau, Guillaume Carlier, Bernard Cornet, Monique Florenzano, Jean-Jacques Herings.

Ph.D. Université Paris 1, Alexandrine Jamin, Théorie de l'équilibre général: l'hypothèse de survivance dans le cas d'ensembles de production non convexes, July 6, 2005, Jury: Jean-Marc Bonnisseau, Bernard Cornet, Alain Chateauneuf, Marc-Olivier Czarnecki, Pierre Dehez.

Ph.D. Université Paris 1, co-supervision with R. Lahmandi-Ayed (Université du 7 novembre à Carthage), Hend Ghazzai, Contributions à la théorie de la différenciation de produits dans le cadre d'équilibres partiel et général, January 22, 2007, jury : Tahar Abdesslem (referee), Edmond Baranes (referee), Jean-Marc Bonnisseau, Rim Lahmandi-Ayed and Hubert Stahn (referee).

PhD students :

H. Hammami, Théorie du point-fixe et applications à l'existence d'équilibre en économie et en théorie des jeux, since October 2003, co-advised with S. Chebbi (Université de Bizerte).

A. Mandel, fellowship from the Ministry of Research and teaching assistant at the Université Paris 1, équilibre général, nouveaux marchés et applications aux marchés de droits de pollution, since October 2004.

Communications

"Fifth World Congress of the Econometric Society", Massachusetts Institute of Technology, Cambridge, U.S.A., August 17-24, 1985, (*Existence of marginal cost pricing equilibria in an economy with several nonconvex firms*).

Conference: "Increasing returns to scale", Cowles Foundation, Yale University, New Haven, U.S.A., August 26-28, 1985, (*Existence of marginal cost pricing equilibria in an economy with several nonconvex firms*).

"Workshop on Increasing Returns", CORE, Université Catholique de Louvain, June 9-10, 1987, (*On two existence results of equilibria in economies with increasing returns*).

"European Meeting of the Econometric Society", Copenhagen, August 24-28, 1987, (*On two existence results of equilibria in economies with increasing returns*).

"IVème Colloque International d'Economie Mathématiques", C.I.R.M., Marseille-Luminy, May 23-27, 1988, (*Equilibrium with quantity targets*).

"European Meeting of the Econometric Society", Bologna, August 29-September 2, 1988, (*A remark on the Existence of Equilibria in Economies with Increasing Returns*).

"Colloque International: Théorie du Point Fixe et Applications", C.I.R.M., Marseille-Luminy, June 5-9, 1989, (*Fixed-Point Theorem and Morse's Lemma for Lipschitzian Function*).

"Equilibrium Theory and Applications: a conference in honor of Jacques H. Dreze", CORE, Louvain-La-Neuve, June 9-10, 1989, (*General Equilibrium Theory with Increasing Returns: the Existence Problem*).

"European Meeting of the Econometric Society", München, September 4-8, 1989, (*Existence of Lindahl equilibrium in economies with non-convex production sets*).

"Workshop on Operation Research-Microeconomics Interfaces" Bruxelles, January 15-16, 1990, (*Existence of Lindahl equilibrium in economies with non-convex production sets*).

"Winter Symposium of the Econometric Society", Nadarzyn /n Warsaw, January 16-19, 1990, (*General Equilibrium Theory with Increasing Returns: the Existence Problem*).

"Sixth World Congress of the Econometric Society", Barcelona, August 22-28 ,1990, (*Existence of Equilibria in presence of increasing returns : a synthesis*).

"Congrès Franco-Soviétique d'optimisation", Luminy-Marseille, October 8-12, 1990, (*Existence of Equilibria in presence of increasing returns : a synthesis*).

"Workshop on General Equilibrium Theory", Geneva, May 27-28, 1991, (*Non-convexities and Externalities : Existence of Equilibria and Pareto Optimality*).

"European Meeting of the Econometric Society", Cambridge, September 2-6, 1991, (*Non-convexities and Externalities : Existence of Equilibria and Pareto Optimality*).

"European Meeting of the Econometric Society", Bruxelles, August 24-28, 1992, (*Price for Access and Development of a Network*).

"Journées du Groupe MODE de la SMAI", Perpignan, November 23-25, 1992, (*Pareto optimalité, non-convexités et externalités*).

"2ème Journées du Groupe MODE de la SMAI", Clermont-Ferrand, November 25-27 1993, (*Sensitivity analysis applied to economic problems*).

"Workshop on Optimization and its Applications", Santiago, Chile, December 6-7, 1993, (*Sensitivity analysis applied to economic problems*).

"Mathematical economics and mathematical finance", Tunis, Tunisia, June 21-26, 1994, (*Sensitivity analysis applied to economic problems*).

"European Meeting of the Econometric Society", Maastricht, August 29 - September 2, 1994, (*Sensitivity analysis applied to economic problems*).

"3ème Journées du Groupe MODE de la SMAI", Brest, March 23-25, 1995, (*Equilibrium manifold for linear exchange economies*).

"Workshop on General Equilibrium Theory", Barcelona, June 2-3, 1995, (*Equilibrium manifold for linear exchange economies*).

"Workshop on General Equilibrium Theory", Zinal, January 8-11, 1996, (*Oligopoly equilibria in large but finite linear exchange economies*).

"4ème Journées du Groupe MODE de la SMAI", Limoges, March 21-23, 1996, (*Oligopoly equilibria in large but finite linear exchange economies*).

"8-th French German Conference on Optimization", Trier, July 21-26, 1996, (*Equilibrium manifold for linear exchange economies*).

"European Meeting of the Econometric Society", Istanbul, August 25-29, 1996, (*Oligopoly equilibria in large but finite linear exchange economies*).

"Workshop on General Equilibrium Theory", Zinal, January 7-10, 1997, (*An Oligopolistic Exchange Process*).

"International Symposium of Mathematical Programming, Lausanne, August 25-29 1997, (*Oligopoly Equilibria in Large but Finite Linear Exchange Economies*)

"Workshop on General Equilibrium Theory", Zinal, January 6-9, 1998, (*Equilibrium Manifold for Exchange Economies with Boundary Constraints*).

"6ème Journées du Groupe MODE de la SMAI", Poitiers, March 19-21, 1998, invited conference : (*Equilibre général dans une économie with ensembles de production non convexes*).

"European Meeting of the Econometric Society", Berlin, August 29 - September 2 1998, (*The Equilibrium Manifold with Boundary Constraints on the Consumption Set*).

"5ème Congrès Latino-américain de Mathématiques Appliquées, Santiago, Chile, December 15-18, 1998, (*Existence of Marginal Cost Pricing Equilibria in Economies with Externalities and Non-convexities*).

"7ème Journées du Groupe MODE de la SMAI", Orléans, March 18-20, 1999, (*Existence d'équilibre de tarification marginale dans des économies with rendements croissants et une infinité de biens*).

"European Workshop on General Equilibrium Theory", Copenhagen, May 21-22 1999, (*Existence of Marginal Pricing Equilibria in Economies with Increasing Returns and Infinitely Many Commodities*).

"EES-UETP Course on Risk Management in Energy markets, Paris, October 18-22 1999, (*Economic Functions of Energy Derivatives Markets*).

"8ème Journées du Groupe MODE de la SMAI", Toulouse, March 23-25, 2000, (*Une nouvelle preuve de la non vacuité du coeur d'un jeu coopératif*), Communication Poster.

"17th International Symposium on Mathematical Programming", Atlanta, August 7-11, 2000, (*The marginal pricing rule in economies with infinitely many commodities*).

"8th World Congress of the Econometric Society", Seattle, August 11-16, 2000, (*The marginal pricing rule in economies with infinitely many commodities*).

"Workshop Strategic Interactions and Interrelated Markets", Aix-en-Provence, October 6-7, 2000, (*Existence and Examples in Strategic Market Games*), invited conference.

"European Workshop on General Equilibrium Theory", Maastricht, May 17-19, 2001, (*The Marginal Pricing Rule in Economies with Infinitely Many Commodities*)

"1er congrès national de mathématiques appliquées et industrielles", Pompadour, May 28 - June 1st, 2001, (*Economies régulières sans préférences ordonnées, poster*)

"56th European Meeting of the Econometric Society", Lausanne, August 25-29, 2001, (*Regular economies without ordered preferences*).

"6ème Congrès Franco-Chilien de Mathématiques Appliquées", Santiago, Chile, December 17-21, 2001, (*Caractérisation des allocations Pareto-optimales sous contraintes dans une économie with marchés ncomplets et production*).

"10ème journées du Groupe MODE-SMAI", Montpellier, March 27-29, 2002, (*Sur la caractérisation des vecteurs de production efficaces*).

"11th European Workshop on General Equilibrium Theory", NTUA, Athens, May 17-18, 2002, (*Regular Economies With Non-ordered Preferences*).

"Conference From Imperfect Competition to Industrial Organization", CORE, UCL, June 21-22, 2002, (*Multiproduct Firms in Vertically Differentiated Markets*).

"Third International Conference on Public Economics", Paris, July 4-6, 2002, (*Oligopoly Equilibria in Linear Exchange Economies*).

"11ème journées du Groupe MODE-SMAI", Pau, March 27-29, 2003, (*Comportement au bord des équilibres des économies d'échange linéaires*), poster communication.

"12th European Workshop on General Equilibrium Theory", Bielefeld University, May 30-June 1st 2003, (*Drèze's Criterion in a Multi-Periods Economy with Stock Markets*).

"Sixth Conference on Current Trends in Economics", Rhodes, June 30-July 6, 2003, (*Drèze's Criterion in a Multi-Periods Economy with Stock Markets*).

"International Conference on Modeling and Optimization", Temuco, Chile, January 19-22, 2004, (*Boundary Behavior of Equilibria for Linear Exchange Economies*).

"11th Meeting on Real Analysis and Measure Theory", Ischia, Italy, July 12-16, 2004, (*Non-convex normal cones and the marginal pricing rule*), invited conference.

"Public Economics Theory Conference", Peking, August 25-29, 2004, (*Constrained Consumptions and Regular Economies*).

"VII French-Latin American Congress on Applied Mathematics", Santiago, Chile, January 11-18, 2005, (*Payoff-Dependent Balancedness and Cores*).

"2ème Congrès National de Mathématiques Appliquées et Industrielles", Evian, May 23-27, 2005, (*Une définition serrée pour la règle de tarification marginale*).

"VII Meeting of the Society for the Advancement of Economic Theory", Vigo, Espagne, June 27- July 3, 2005, (*The Marginal Pricing Rule Revisited*).

"1ère Conférence de Mathématiques du Pacifique Sud", Nouméa, August 29-September 2, 2005, (*The Marginal Pricing Rule Revisited*).

"Midwest Economic Theory Conference", Lawrence, Kansas, October 14-16, 2005, (*A Tight Definition for the Marginal Pricing Rule*)

"Conference in Honor of Roko Aliprantis, Prudue University, October, 17-18, 2005, (*Existence of Equilibria with a Tight Marginal Pricing Rule*)

"Mathematical Economics: the Legacy of Gérard Debreu", Berkeley, October 20-23, 2005, (*Existence of Equilibria with a Tight Marginal Pricing Rule*)

[62] "International Conference on Mathematics of Optimization et Decision", Pointe-à-Pitre, April 18-21, 2006, (*Consumption Possibility depending on Endowments and Regular Economies*)

[63] "15th European Workshop on General Equilibrium Theory", Lisbon, May 20-21, 2006, (*Equilibria with Increasing Returns: Sufficient Conditions on Bounded Production Allocations*)

[64] "First Euro-African Conference on Finance and Economy », Tunis, June 8-9, 2006, ((*Consumption Possibility depending on Endowments and Regular Economies*, communication poster)

[65] Journées Mathématiques de l'Economie, Dijon, 22-23 juin 2006, (*Existence of Equilibria with a Tight Marginal Pricing Rule*)

[66] Workshop on Mathematical Economics in honor of the 60th anniversary of Aloisio Araujo, IMPA, Rio, Brésil, 13-16 décembre 2006, (Equilibria with Increasing Returns: Sufficient Conditions on Bounded Production Allocations)

Short visits

CEMI, Academy of Sciences of URSS, Moscow, October 3-9, 1991

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, October 21 octubre-November 9 1991

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, December 6-22, 1993

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, August 2-19, 1995

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, October 24-November 9, 1997

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, December 7-20, 1998

Department of mathematics, University of California at Davis, June 16-30 1999

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, November 21-December 12, 1999

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, April 23- May 2, 2000

Ecole Polytechnique de Tunisie, La Marsa, October 29- November 7, 2001

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, December 10-21, 2001.

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, November 25 - December 14, 2002.

Department of Economics, Brown University, Providence, RI, March 3-23, 2003.

Ecole Polytechnique de Tunisie, La Marsa, May 17-24, 2003

National University of Economy, Hanoi, August 12-22, 2003

Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, January 19-30, 2004.

Ecole Polytechnique de Tunisie, La Marsa, May 29 -June 5, 2004

Department of Economics, Kansas University, Lawrence, Ks, September 28-October 7, 2004.

Ecole Polytechnique de Tunisie, La Marsa, November 19-26, 2004

Université d'Antananarivo, Madagascar, June 13-23, 2005

Université de la Nouvelle-Calédonie, August 23-September 3, 2005

Ecole Polytechnique de Tunisie, La Marsa, January 13-21, 2006

Université d'Antananarivo, Madagascar, August 21-30, 2006

Ecole Polytechnique de Tunisie, La Marsa, September 28-October 3, 2006

Fundacao Getulio Vargas, Rio, December 7-21, 2006

Ecole Polytechnique de Tunisie, La Marsa, January 14-21, 2007

Organization of conferences :

Member of the organizing committee of the First European Congress in Mathematics, Paris, July 6-10, 1992.

Member of the organizing committee of the Colloque Satellite of the European Congress in Mathematics in Mathematical Economics, Paris, July 3 - 4, 1992

Member of the Scientific Committee of the journées du groupe MODE de la SMAI, Perpignan, November 23-25, 1992.

Member of the organization committee of the summer school in theoretical economics, La Sorbonne, Paris, July 1-13, 1993.

Member of the organizing committee of the conference Mathematical Economics and Mathematical Finance, Tunis, June 21-26, 1994.

Member of the Scientific Committee of the quatrièmes journées du Groupe MODE de la SMAI, Limoges, March 21-23, 1996.

Chairman of the organizing committee and member of the scientific committee of the cinquièmes journées du Groupe MODE de la SMAI, Paris, March 19-21, 1997.

Member of the organizing committee of the conference "Risk management in energy markets : optimal use of financial products", Paris, October 18-22, 1999.

Member of the scientific committee of the huitièmes journées du Groupe MODE de la SMAI, Toulouse, March 23-25, 2000.

Member of the organizing committee of the European Workshop on General Equilibrium Theory, Paris, May 18-20, 2000

Organiser of the conference "Economic Analysis of Electricity Markets in Europe", Paris, March 26-27, 2001

Member of the scientific committee of the 11èmes journées du Groupe MODE de la SMAI, Pau, March 27-29, 2003.

Member of the organizing committee of the Exploratory Workshop on Arbitrage, Paris, June 23-25, 2003.

Member of the scientific committee of the 12èmes journées du Groupe MODE de la SMAI, Le Havre, March 25-27, 2003.

Member of the organizing committee of the conference in Stochastic models, integration of correspondences and applications, 20th anniversary of the CERMSEM, Paris, February 12-13, 2004.

Member of the organizing committee of the 7ième Congrès Franco-Latino Américain de Mathématiques Appliquées, Santiago (Chile), January 11-18, 2005.

Member of the scientific committee of the First South-Pacific Conference in Mathematics, Nouméa, August 29- September 2, 2005.

Member of the NSF/NBER Decentralization Conference, Université Paris 1 Panthéon-Sorbonne, April 6-8, 2006

Member of the organizing committee and scientific committee of the first Euro-African Conference in finance and economics, Ecole Polytechnique de Tunisie, June 8-9, 2006

Member of the organizing committee, Conference on Optimisation and Decision, Institut Henri Poincare, Paris, April 18-20, 2007

Administrative responsibilities

Since September 2005, head of the department of mathematics and computer sciences, Université Paris 1, Panthéon-Sorbonne

Since September 2006-5, co-chair of the Erasmus Mundus Master QEM at the University Paris 1

Since March 2004, president of the group in Mathematics for Optimization and Decision (SMAI)

Since March 1992, member of the council of the department of mathematics and computer sciences of the Université Paris 1

Since October 1990, member of the hiring committee in mathematics and computer sciences at the Université Paris 1

Since December 2003, elected member of section in applied mathematics of the National Committee of Universities

June 2004-June 2005 vice-president of the French Society in Industrial and Applied Mathematics (SMAI)

September 2000-September 2005, chairman of the DEA (first year of the PhD program) in Modelization and Mathematical Methods in Economics

June 1992-June 1998, head of the Department in Mathematics and Computer Sciences, University Paris 1 Panthéon-Sorbonne