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Education

Ecole normale supérieure Sèvres, Mathematics 1973-78, ENSAE 1977-79.

Agrégation de Mathématiques 1976, Thèse 3ème cycle, 1980, Thèse d'Etat Paris IX, 1986.

Present and Past Positions

Present position : Directeur d'Etudes at EHESS (since 1990).

Associate Chair Paris School of Economics

Past positions :

Assistant Professor, University Paris VI (1977-1985).

Maître de Conférences, University Paris I (1986-1987).

Professor of Mathematics, University Paris XIII (1988-1990).

Maître de Conférences in Economics at the Ecole Polytechnique (1986-1999).

Research: Laboratoire d'économétrie de l'Ecole Polytechnique (1980-1990), Delta then PSE (1990-).

Editorial Activities

Co-editor *Economic Theory* (1998-2004).

Associate Editor *Review of Economic Design* (since 1998).

Associate Editor *Mathematical Social Sciences* (since 2000).

Associate Editor *Finance* (since 2000).

Associate Editor *Mathématiques et Sciences humaines* (1990-2000).

Member of the *Economic policy* panel (2004-2005) <http://www.economic-policy.org>.

Associate editor of *Journal of European Economic Association* (2004-2007).

Fellowship/ Council membership

Fellow of the Econometric Society (since 1992)

CEPR Research Fellow (since 1997)

Member of the CESifo Network [2006-]

Game Theory Society charter member

Game Theory Society council member (2006-2009)

Council member of the Society for Social Choice and Welfare (2008-2013)

Programme committees (recent)

Chairman of Economic Theory, European Meeting of the Econometric Society (ESEM 2007), Budapest.

Member program committee:

Workshop on Internet and Economics (WINE), 2005, 2008.

Meeting of "Society for the advancement of Economic Theory", SAET Vigo (Spain), 2005.
European economic association (EEA) 2002

Selected Academic Activities

Membre du comité la commission de "Sciences économiques" du Fonds de la Recherche Scientifique – FNRS (2008-2012).

Scientific Council of Laboratoire Européen Associé GREQAM (Marseille), CORE (Louvain) and the GRECA (Barcelone) since 2001.

Member of recruiting committees (Lund University, Institut Universitaire de Florence)

Co-organizer of Winter Meeting of the Econometric Society (1993-2001).

Co-organizer of a Joint Workshop -HEC-INSEAD-PSE, [2003 -

Co-organizer of *Chaire d'assurance*, Paris (with Pierre Picard and Pierre-Yves Geoffard), 1999-2006.

Co-organizer of the "Risks and Social Protection" Seminar at Delta then PSE 1999-2006.

Organizer of séminaire Fourgeaud, Ecole des Ponts et Chaussées, Paris, 1989-1991.

Organizer of *Formation Mathématique de la Finance*, Collège Polytechnique, (1992-1995).

Studies for the Commissariat au plan, CCF, EDF, CAR (Caisse des Dépôts), Banque de France.

Administrative responsibilities

Director of Doctoral Formation "Analyse et Politique Economiques", EHESS, ENSAE , Ecole Polytechnique, Ecole Normale Supérieure (1991-1999).

Scientific Council EHESS (1993-1997).

Areas of Current Research Interest

Cooperative game theory.

Risk sharing, functioning of the financial markets (information, imperfect competition).

Social Security (pension, health).

Work in Progress

"Sharing information in web communities".

"Sharing aggregate risks under moral hazard"

"Information revelation in a security market: The impact of uncertain participation".

Publications

Books

Finance and the Economic of Uncertainty with Guy Laroque, Blackwell, 2006, 281 p

Group Formation in Economics: Networks, Clubs and Coalitions, Editors Demange G. et Myrna Wooders, Cambridge University Press, 2005, 480 p.

Finance et Economie de l'incertain, with Guy Laroque, Economica, 2001, 267 p.

Théorie des Jeux et Analyse Economique, with Jean-Pierre Ponsard, Presses Universitaires de France, 1994, 233 p.

Méthodes Mathématiques de la Finance, with Jean-Charles Rochet, Paris, Economica, 1992, 303 p, second edition 1997, third édition, collection « Economie et Statistiques avancées », 2005.

Articles in refereed journals

"On sustainable Pay As you Go contribution rules", forthcoming in *Journal of Public Economic Theory*.

"The strategy structure of some coalition formation games", *Games and economic Behavior*. January 2009, 65, issue 1, Pages 83-104.

The Provision of Higher Education in a Global World-Analysis and Policy Implications avec Robert Fenge; Silke Uebelmesser, *CESifo Economic Studies*, 2008 doi10.1093/cesifo/ifn010.

"Information Sharing Communities" *Springer's LNCS, Lecture Notes in Computer Science*, December 2007 pp 96-107.

"Reforming incentive schemes under political constraints: The physician agency", with Pierre-Yves Geoffard, *Annales d'économie et de statistique*, 2006 83/84 227-250.

"Incentives in some coalition formation games" *Springer's LNCS, Lecture Notes in Computer Science*, December 2005, 258-268.

"On group stability in hierarchies and networks", *Journal of Political Economy*, August 2004, 112, 754-778.

"Ouverture des systèmes de retraite par répartition: l'impact du libre choix", *Revue Economique*, 55, May 2004, 479-488.

"Impact de la liquidation d'une option sur un marché d'action" with Cécile Boyer, *Annales d'économie et de statistique*, 73, Janvier-Mars 2004, 119-140.

"On optimality in intergenerational risk sharing", *Economic Theory*, 20, 2002, 1-27.

"On coalitional stability of anonymous interim mechanisms", with Roger Guesnerie, *Economic Theory*, 18 (2), 2001, 367-389.

"Social Security with heterogeneous populations subject to demographic shocks", with Guy Laroque, *Geneva papers on Risk and Insurance Theory*, 26, 2001, 5-24.

"Retraite par répartition ou par capitalisation : une analyse de long terme", with Guy Laroque, *Revue Economique*, 2000, 813-829.

"Social Security, Optimality and Equilibria in a Stochastic Overlapping Generations Economy", with Guy Laroque, *Journal of Public Economic Theory*, 2 (1), 2000, 1-23.

"Social Security and Demographic Shocks", with Guy Laroque, *Econometrica*, 67, 1999, 527-542.

"Efficiency and Options on the Market Index", with Guy Laroque, *Economic Theory*, 14, 1999, 227-236.

"Long-Sighted Principal and Myopic Agents", with Guy Laroque, *Journal of Mathematical Economics*, 30, 1998, 119-146.

"Non-emptiness of the Core: Low Dimensional Decisions Spaces and One-Dimensional Preferences", with Roger Guesnerie, *Research in Economics*, 51, 1997, 7-17.

"Private Information and the Design of Securities", with Guy Laroque, *Journal of Economic Theory*, 65, 1995, 233-257.

"Optimality of Incomplete Markets", with Guy Laroque, *Journal of Economic Theory*, 65, 1995, 218-232.

"Information asymétrique et émissions d'actifs", with Guy Laroque, *Revue Economique*, 1994, 639-656.

"Intermediate Preferences and Stable Coalition Structures", *Journal of Mathematical Economics*, 1994, 45-48.

"Rational Escalation", *Annales de l'INSEE*, 1992, 227-249.

"Sustainable Oligopolies", with Dominique Henriët, *Journal of Economic Theory*, 54, 1991, 417-428.

"Fair Allocation of Indivisible Goods and Money and Criteria of Justice", with A. Alkan and D. Gale, *Econometrica*, 59, 1991, 1023-1040.

"An Axiomatic Approach to Proportionality between Matrices", with Michel. L. Balinski, *Mathematics of Operations Research*, 1989, 700-719.

"Algorithm for Proportional Matrices in Reals and Integers", with Michel. L. Balinski, *Mathematical Programming*, 1989, 193-210.

"Nonmanipulable Cores", *Econometrica*, 55 (5), 1987, 1057-1074.

"A Further Note on the Stable Matching Problem", with D. Gale and M. Sotomayor, *Discrete Applied Mathematics*, 16, 1987, 217-222.

"Barrière de mobilité et concurrence dans un duopole", with Jean-Pierre Ponsard, *Annales de l'INSEE*, 1, 1986, 35-53.

"Multi-Item Auctions", with David Gale and Marilda Sotomayor, *Journal of Political Economy*, 94 (4), 1986, 863-872.

"Free-Entry and Stability in a Cournot Model", *Journal of Economic Theory*, 40 (2), 1986, 283-303.

"Asymmetries in Cost Structure and Incentives toward Prices Competition", with Jean-Pierre Ponsard, *International Journal of Industrial Organization*, 3, 1985, 85-100.

"The Strategy Structure of Two Sided Matching Markets", with D. Gale, *Econometrica*, 53 (4), 1985, 873-888.

"Implementing Efficient and Egalitarian Equivalent Allocations", *Econometrica*, 52 (5), Sept.1984, 1167-1177.

"Single Peaked Orders on a Tree", *Mathematical Social Sciences*, 3 (3), 1983, 389-396.

"A Limit Theorem on the Minmax Set", *Journal of Mathematical Economics*, 9, 1982,145-164.

Chapters in books

"Free Choice of Unfunded Systems: A Preliminary Analysis of a European Union challenge", *Pension Strategies in Europe and the United States* editors Robert Fenge, Georges de Menil and Pierre Pestieau MIT Press 2008, 206-242.

"Group formation: The interaction of increasing returns and preferences' diversity", in *Group Formation in Economics: Networks, Clubs and Coalitions*, eds Demange G. and M.Wooders, Cambridge University Press, 2005.

"Voluntary pay-as-you-go social security and intergenerational risk sharing", with Guy Laroque, in *Institutional and Financial Incentives in Social Insurance*, eds C. D'aspromont, V. Gingsburgh, H. Sneessens, F. Spinnewyn, Kluwer Academic Publishers 2002, 175-189.

"Investment, Security Design and Information" with Guy Laroque, in *Banking, Capital Markets and Corporate Governance*, eds H. Osano and T. Tachibanaki, 2002 Palgrave.

"A Duopoly Model Suggesting a Taxonomy of Competitive Situations", with Jean-Pierre Ponsard, in *Microeconomic Contributions to Strategic Management*, eds Thepot and Thietart, 1991, Elsevier Science Publishers, 8-22.

"Le redressement des Tables de Contingence : Deux nouvelles approches", with Y.A It-Sahalia and M.L Balinski, in *Recherches Economiques : études en hommage à Edmond Malinvaud*, Economica and EHESS, 1988. English version "The adjustment of contingency tables: Two new approaches", in: *Essays in Honor of Edmond Malinvaud, Volume 3: Empirical Economics*, Cambridge MA, 99-114.

"Notes on defining proportionality between matrices" with M. Balinski in: *Proceedings of the Eighth Mathematical Programming Symposium*, Japan, Chugoku Electric Power Co., Hiroshima, [1987], pp. 1-17.

"Spatial Models of Collective Choice", in *Locational Analysis of Public Facilities*, J. F. Thisse and H-G Holler eds, North Holland, 1983, 153-182.

Other Publications

Competition between unfunded systems: A European Union challenge, October 2008, *Pensions : an International Journal* 13: 213-220.

"À quoi peut servir la concurrence en assurance santé ?" avec Pierre-Yves Geoffard, *Revue d'économie politique*, 114, Septembre-Octobre 2004, 595-611.

"Quelles formes de concurrence en assurance santé ?", with Pierre-Yves Geoffard, *Risques*, 49, 2002, 47-53.

"La réforme de l'Union Européenne à partir de la théorie des jeux : Commentaires", *Revue française d'économie*, October 2001, 63-73.