

Hassan BENCHEKROUN

*Department of Economics,
McGill University
855 Sherbrooke West,
Montreal, QC, Canada. H3A-2T7.
Tel: (514) 398-2776
Fax: (514) 398-4849
E-mail: hassan.benchekroun@mcgill.ca*

Citizen of Canada and Morocco, Born in 08/28/1968.

CURRENT AND PAST POSITIONS

Associate Professor (with tenure): McGill University, since June 2006.
Visiting Scholar: Tilburg University, September 2006-June 2007.
Assistant Professor (tenure track): McGill University, since July 2002.
Assistant Professor (tenure track): Florida Atlantic University, October 1999- June 2002.
Assistant Professor (limited term appointment): Concordia University, Jan. 98-May 99.

EDUCATION

Sep. 1993 - Apr. 1998: Ph.D. in Economics, Université Laval
Jan. 1993 - Aug. 1993: Graduate studies, department of mathematics, Université Laval.
Sep. 1989 - June 1992: Industrial Engineering, École Mohamedia des Ingénieurs,
(Morocco).
Sep. 1987 - June 1989: Mathématiques supérieures et spéciales, Lycée Moulay
Youssef, (Morocco).

EDITORIAL DUTIES

Associate Editor of *Environmental and Resource Economics* (2010-).
Associate Editor of *Dynamic Games and Applications* (2010-).
Editorial Advisor for the *Canadian Journal of Economics* Editorial Board (2003-2006).

AREAS OF INTEREST

Natural Resource and Environmental Economics, International Economics (Trade Theory), Industrial Organization, Applied Microeconomics, Game Theory, Microeconomic Theory, Mathematical Economics.

PUBLICATIONS

["Welfare Effects of Mergers and Trade Liberalization"](#), with A. Ray Chaudhuri, accepted for publication in the *Review of International Economics*.

"Controlling pollution and carbon absorption capacity", with Fouad El Ouardighi and Dieter Grass, accepted for publication in the *Annals of Operations Research*.

"Static and Dynamic Games in Environmental and Resource Economics", (with Ngo Van Long), (2011), in A. Batabayal and P. Peter Nijkamp (Eds.), *Research Tools in Natural Resource and Environmental Economics*, World Scientific Publishing.

"The costs and benefits of International Investment Agreements to developing countries: an economic perspective" with A. Ray Chaudhuri, in Armand de Mestral & Céline Lévesque, eds. *Improving International Investment Agreements*, Routledge (forthcoming, 2012).

["The Optimal Depletion of Exhaustible Resources: A Complete Characterization"](#) with Cees Withagen, *Resource and Energy Economics*, 2011, vol. 33(3), pages 612-636

["Free Trade, Autarky and the Sustainability of an International Environmental Agreement"](#) with Murat Yildiz, (2011), *B. E. Journal of Economic Analysis & Policy*: Vol. 11 (1), Article 9.

["Environmental Policy and Stable Collusion: The Case of a Dynamic Polluting Oligopoly"](#) with Amrita Ray Chaudhuri, *Journal of Economic Dynamics and Control*, 2011, Vol. 35 (4), April, pages 479-490

["Static and Dynamic Games in Environmental and Resource Economics"](#), (with Ngo Van Long), (2011), in A. Batabayal and P. Peter Nijkamp (Eds.), *Research Tools in Natural Resource and Environmental Economics*, World Scientific Publishing..

["When additional resource stocks reduce welfare"](#), with Alex Halsema and Cees Withagen, the *Journal of Environmental Economics and Management*, 2010, vol. 59 (1), pages 109-114. Appendix in: <http://www.econ.iastate.edu/jeem/supplement.htm>.

["On nonrenewable resource oligopolies: the asymmetric case."](#) with Alex Halsema and Cees Withagen, the *Journal of Economic Dynamics and Control*, 2009, vol. 33, issue 11, pages 1867-1879.

["North's technology improvement and South's welfare in the presence of FDI "](#), with Sharmila Vishwasrao, *Oxford Economic Papers*, 2009, Vol. 61 (3), Pages:603-622.

["Could Myopic Pricing be a Strategic Choice in Marketing Channels? A Game Theoretic Analysis"](#), with Guiomar Martin-Herrán and Sihem Taboubi, the *Journal of Economic Dynamics and Control*, 2009, Vol. 33(9), Pages 1699-1718.

PUBLICATIONS Continued

["A class of performance-based subsidy rules"](#), co-author Ngo Van Long, the *Japanese economic Review*, 2008, vol. 59(4), pages 381-400.

["The build-up of cooperative behavior among non-cooperative selfish agents"](#), co-author Ngo Van Long, the *Journal of Economic Behavior and Organization*, (2008), vol. 67(1), Pages 239-252.

["Comparative dynamics in a productive asset oligopoly"](#), the *Journal of Economic Theory*, 2008, vol. 138(1), pages 237-261.

["Tax differentials and environmental R&D strategic alliances"](#), co-author Denis Claude, *B.E. Journals of Theoretical Economics*, 2007, vol. 7: Iss. 1 (Topics), Article 26.

["A unifying differential game on the effect of promotions on goodwill"](#), the *International Game Theory Review*, 2007, vol. 9, No: 2, pages: 183-197.

["Optimum tariffs and patent length in a model of North-South technology transfer"](#), co-authors Srabana Gupta and Sharmila Vishwasrao, the *International Review of Economics and Finance*, 2007, vol. 16 (1), pages 1-14.

["Trade liberalization and the profitability of mergers: a global analysis"](#), co-author Amrita Ray Chaudhuri, the *Review of International Economics*, November 2006, vol.14 (5), pages: 941-957.

["Temporary natural resource cartels"](#), co-authors Gérard Gaudet and Ngo Van Long, the *Journal of Environmental Economics and Management*, 2006, vol. 52(3), p. 663-674.

["The curse of windfall gains in a dynamic oligopoly"](#) co-author Ngo Van Long, the *Australian Economic Papers*, 2006, vol. 45(2), pages 99-105.

["Capital resource substitution, overshooting, and sustainable development"](#) co-authors Ngo Van Long and Seiichi Katayama, in *Optimal Control and Dynamic Games Applications in Finance, Management Science and Economics Series, Vol. 7, pages 41-65, Deissenberg, Christophe; Hartl, Richard F. (Eds.) 2005.*

["The closed-loop effect and the profitability of horizontal mergers"](#), *Canadian Journal of Economics*. Aug. 2003 Vol. 36 (3) p 523-764.

["Unilateral production restrictions in a dynamic duopoly"](#), *Journal of Economic Theory*. Aug. 2003 Vol. 111 (2), p. 214-239.

["On the profitability of production constraints in a dynamic natural resource oligopoly"](#), co-author Gérard Gaudet. *Journal of Economic Dynamics and Control*. 2003. Vol. 27 (7). p 1237-52.

PUBLICATIONS *Continued*

["Transboundary fishery: a differential game model"](#), co-author Ngo Van Long. *Economica*, 69 (2002): 207-229.

["On the multiplicity of efficiency inducing tax rules"](#), co-author Ngo Van Long. *Economics Letters*, 76 (2002): 331-336.

["Learning by doing and strategic trade policy"](#), co-authors Ngo Van Long and Huilan Tian, *Review of International Economics*, v7 issue 3 August 1999, pp. 493-508.

["Efficiency inducing taxation for polluting oligopolists"](#), co-author Ngo Van Long, *Journal of Public Economics*, v70 n2 Nov 1998, pp. 325-42.

ONGOING RESEARCH: UNDER REVIEW AND WORK IN PROGRESS

["On price taking behavior in a nonrenewable resource cartel-fringe game"](#) with Cees Withagen, invited to be revised and resubmitted in *Games and Economic Behavior*.

["'The Voracity Effect' and Climate Change: The Impact of Clean Technologies"](#) with A. Ray Chaudhuri, submitted.

"Foresight and myopia in a transboundary pollution game", with Guiomar Martín-Herrán, submitted.

"Adaptation effectiveness and free riding incentives in international environmental agreements" with A. Ray Chaudhuri and Walid Marrouch, submitted.

["Cartel stability in a dynamic oligopoly with sticky prices"](#), with Licun Xue.

["Environmental R&D in the presence of an eco-industry"](#), with Alain-Désiré Nimubona.

"Bank mergers and liquidity risk", with Taweewan Sidthidet.

"Uncertainty in a transboundary pollution game", with Ngo Van Long.

"On the stability of agreements in a productive asset oligopoly" with Gérard Gaudet.

"Delayed agreements and "intertemporal" free-riding", with Omer Acikgoz.

"An economic perspective on international investment treaties", with A. Ray Chaudhuri.

"Asymmetries in common pool resource exploitation", with G. Gaudet and H. Lohoues.

"Experimental study of a common property differential game", with Jim Engle-Warnick and Dina Tasneem.

RESEARCH GRANTS

The Canadian Social Science and Humanities Research Council (SSHRC): Canadian Environmental Issues, 2009-2012; \$249 458. With: Yazid Dissou (University of Ottawa).

Fond Québécois de la Recherche sur la Société et la Culture (FQRSC) :
Team Grant: 2008-2012; \$426 700. With: Robert Cairns (McGill), Gérard Gaudet (Université de Montreal), Pierre Lasserre (UQAM) and Ngo Van Long (McGill).

The Canadian Social Science and Humanities Research Council (SSHRC):
Standard Research Grant, 2008-2011; \$180 000. With: Armand de Mestral (Faculty of Law, McGill, Principal Investigator), Markus W. Gehring (Centre of International Studies, Cambridge), Celine Levesque (Faculty of Law, University of Ottawa), Mark Manger (Political Science, McGill) and Andrew Newcombe (Faculty of Law, University of Victoria).

The Canadian Social Science and Humanities Research Council (SSHRC):
Standard Research Grant, 2006-2009; \$90 000.

The Canadian Social Science and Humanities Research Council (SSHRC):
Standard Research Grant, 2003-2006; \$69 001. The application was ranked 7/115.
Fond Québécois de la Recherche sur la Société et la Culture (FQRSC): Jeune Chercheur:
2003-2006; \$45 000.

Fond Québécois de la Recherche sur la Société et la Culture (FQRSC) :
Team Grant: 2004-2008; \$348 500. With: Michele Breton (HEC), Desire Vencatachelum (HEC) and Georges Zaccour (HEC).

James McGill award, through Prof. John Galbraith, 2002-2003 (\$5000)

Arts Undergraduate Society grant 2002-2003 (\$3500)

GRADUATE STUDENTS' SUPERVISION

PhD: Main advisor

Amrita Ray Chaudhuri, (completed Fall 2007)
Taweewan Sidthidet (defended Summer 2011)
Farnaz Taherkhani (ongoing)
Dina Tasneem (ongoing)
Guillaume Lord (ongoing)

PhD: Examiner

M.T. Vo, M.E. Postalci, H.E. Dalgic, S. Baksi, S. Chou, B. Sengupta, H. Lehoues (Université de Montréal), A. Sokri (HEC), B. Tang (University of Ottawa), C. Belford, V.D. Do, J. Zhang and S. Bernard (University of Ottawa), H. Rasata (HEC), A. Halsema (Vreij University of Amsterdam).

GRADUATE STUDENTS' SUPERVISION (Continued)

MA: Main advisor

Sherry Hsu (October 2003), Omer Acikgoz (October 2004), Li Hui (October 2004), Baffour Badu-Apraku (October 2005), Ksenya Gankina (October 2005), Rana El Halabieh (January 2006), Eric Madueno (April 2006), Paulina Chahine (October 2009), Benjamin Loper (October 2009), Itamar Megido (October 2009).

INVITED SEMINAR PRESENTATIONS

Carleton University, Florida Atlantic University, Florida International University, Ryerson University, Rimini Center of Economic Analysis, Timbergen Institute, Tilburg University, Université de Sherbrooke, Université Laval, University of Ottawa, University of Victoria, University of Valladolid, University of Waterloo.

PRESENTATIONS AT CONFERENCES

Eleventh Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics (The Netherlands 2010).
Fourth World Congress of Environmental and Resource Economists (Canada 2010).
Seventh Workshop of the International Society of Dynamic Games (Tunisia 2009),
Dynamic Games in Management Science (Canada 2008),
Thematic Meeting of the French Economic Association: Frontiers in Environmental Economics and Natural Resources Management (France 2008),
Workshop on Game Theory in Energy, Resources and Environment (Canada 2007),
Sixth Workshop of the International Society of Dynamic Games (Morocco 2007),
12th International Symposium on Dynamic Games and Applications (France 2006),
Fifth Workshop of the International Society of Dynamic Games (Spain 2005),
World Congress of the Econometric Society (United Kingdom 2005),
Society for the Advancement of Economic Theory (Spain 2005),
Optimization Days (Canada 2005),
New Development of International Trade, Research Institute for Economics and Business Administration (Japan 2004),
World Congress of the Game Theory Society (Spain 2000 and France 2004),
International Conference on Industrial Organization, Law and Economics (Greece 2004),
Eighth Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics (Austria 2003),
Société Canadienne des Sciences Économiques (Canada 1995, 1997, 2004, 2005),
Canadian Economics Association (Canada 1997, 1998 and 2001),
South-East Economic Theory and International Economics Conference (US 2001),
Society for Economic Dynamics (United Kingdom 1997),
Canadian Resource and Environmental Economics Study Group (1997, 2005, 2010).

REFEREE DUTIES

Reviewer for the Natural Sciences and Engineering Research Council of Canada (Discovery Grants).

Referee for *Automatica*, *the B.E. Journal of Economic Analysis & Policy*, *the Canadian Journal of Economics*, *Ecological Economics*, *the Economic Journal*, *Economic Theory*, *Energy Economics*, *Environmental Modeling and Assessment*, *Environmental and Development Economics*, *Environmental and Resource Economics*, *European Journal of Operations Research*, *International Economic Review*, *International Game Theory Review*, *International Journal of Industrial Organization*, *International Review of Economics and Finance*, *International Tax and Public Finance*, *Journal of Economic Dynamics and Control*, *Journal of Economic Theory*, *Journal of Environmental Economics and Management*, *Journal of Economics and Management Strategy*, *Journal of Development Economics*, *Journal of Public Economics*, *Journal of Public Economic Theory*, *Mathematical Social Sciences*, *Natural Resource Modeling*, *Optimal Control Applications and Methods*, *Rand Journal of Economics*, *Resource and Energy Economics*, *Southern Economic Journal*, *Wiley Encyclopedia of Operations Research and Management Science*.

Selected as “Outstanding Reviewer” for *Automatica*, a distinction given to approximately 40 reviewers from a pool of over 1300 reviewers.

Reviewer for Dryden "*Public Finance in Canada*" (by Hyman/Strick, 1999).
Reviewer for McGraw-Hill "*Principles of Microeconomics*" (by Frank/Bernanke, 2001).
Reviewer for Wiley "*LQ Dynamic Optimization and Differential Games*" (by Engwerda, 2005).

External Reviewer of tenure applications for two Canadian and two American universities.

SERVICE

Membership on scientific committees

Member of the scientific committee of the 2012 meetings of Société canadienne de science économique.

Member of the Program Committee of the fourth World Congress of Environmental and Resource Economists (2010).

Member of the International Program Committee of the conference of the European Association of Environmental and Resource Economists (2009 and 2011).

Member of the selection committee of the Canadian Resource and Environmental Economics Conference (2006, 2008).

Member of the Scientific Committee of the conference "Environment, innovation and performance", in Grenoble, France 2007.

Member of the International Program Committee of the 12th International Symposium on Dynamic Games and Applications in Sophia-Antipolis, France, July 2006.

Member of the International Program Committee of the "7th Meeting on Game Theory and Practice dedicated to Energy, Environment and Natural Resources", Montreal 2007.

Organization of workshops

Co-organizer of the Montreal Natural Resource and Environmental Economics Workshop (Winter sessions 2004- 2006, 2008, 2009 and 2010).

Co-organizer of the Montreal Economic Theory workshop (2004-2005)

Organizer of two CREE sessions at the CEA meetings: games and environmental economics and political economy and environmental economics.

Membership on committees

Member of the Promotion and Tenure Committee, the Department of Economics (2010)

Member of the selection committee for the Chair of the Department of Economics (2010)

Chair of the Department of Economics' graduate admissions committee (since 2007)

Member of the Department of Economics' graduate admissions committee (since 2003)

Member of the Information Technology Support Oversight Committee (faculty of arts) (2007-2009).

Member of the B.A. & B.Sc. Program Administration Committee (since 2009)

Member of the ad hoc committee on the Department of Economics' review Fall 2004.

Member of the Ph.D. comprehensive exam committee: Industrial Organization 2003 and 2004, Microeconomic Theory 2004 and 2008, International Economics 2005, 2006 and 2009, Environmental and Resource Economics 2009.

Administrative contributions

Majors/Minors Academic Advisor (2002-2005)

Advisor to students in the Qualifying Year (2004-2005).

Member of the 'conseil d'administration' of the Societe Canadienne des Sciences Economiques (2007-2010)

COURSES TAUGHT

Undergraduate:

Environmental Economics, Principles of Microeconomics, Principles of Macroeconomics, Intermediate Microeconomics, Public Finance, Advanced International Trade (Majors and Honors), Industrial Organization, Advanced Mathematics for Economists, Advanced Economic Theory (Honors).

Graduate:

Topics in Environmental Economics, Microeconomic Theory II, Dynamic Optimization Methods in Economics, International Economics (Trade Theory), Mathematics for Economists.

OTHER RESEARCH

“Numerical solution of the continuity equation in semi-conductors analysis”, Engineering thesis, Ecole Mohamedia des Ingenieurs, (1992), Rabat, Morocco.