

Karima Fredj

Address: Economics Program
University of Northern British Columbia
3333 University Way
Prince George, BC,
Canada V2N 4Z9.

Curriculum Vitae

Office: (960) 960-6686

Fax: (250) 960-5545

E-mail: Fredj@unbc.ca

EDUCATION

Ph.D. in Administration (October 2004)

Institute of applied Economics
HEC Montréal

Joint Ph.D. program in Administration (McGill, Concordia, UQAM, and HEC Business Schools)

Dissertation: ‘Applications of Game Theory to Global Environmental Problems’

Advisors: Michèle Breton & Georges Zaccour

Master’s Degree in Economics (M.Sc.) (June 1998)

Department of Economics
Université de Montréal, Montreal.

Thesis: ‘Cost sharing and stability in a case of a tree network ’

Advisor: Yves Sprumont

Bachelor’s Degree in Economics and management sciences (June/1995)

Faculté de Tunis II, Tunisia.

University Diploma in Economics and Management Studies (DUEG) (September/1993)

Faculté de Tunis II, Tunisia.

RESEARCH INTERESTS

- ❑ Applied Game Theory.
- ❑ Applied Optimization Theory.
- ❑ Environmental Economics.
- ❑ Natural Resource Management.
- ❑ Cost Benefit Analysis
- ❑ Industrial organization

PROFESSIONNEL EXPERIENCE

Economics program, University of Northern British Columbia
Tenured Assistant Professor (July 2004- Present)

Institute of Applied Economics, HEC MONTRÉAL
Lecturer (September 2003- May 2004)

GERAD (Group for Research in Decision Analysis)
Research Assistant (May 2002-june 2004)

Institute of Applied Economics, HEC MONTRÉAL
Teaching Assistant (September 2001- December 2001)
“Microeconomic Analysis (1-803-96)”

Institute of Applied Economics, HEC MONTRÉAL
Teaching Assistant (January 2001- April 2001)
“Macroeconomic Analysis (1-804-96)”

CÉTAI, HEC MONTRÉAL
Research Assistant (April 2000- April 2002).

CRDE, Université de Montréal
Research Assistant (December 1997-August 1998)

Department of Economics, Université de Montréal
Teaching Assistant (September 1996- May1997)
“Introduction to Macroeconomic Analysis (ECN 1050)”

Research and Publications

Munton D. and K Fredj,(submitted), “Secrets Without Borders?—Game Theoretic Analysis of International Intelligence Cooperation”, *the International Journal of Intelligence andCounter Intelligence*.

Choi S. and K. Fredj, (2012), “Price Competition and store competition: Store brands vs. National Brand”, the *European Journal of Operational Research*, DOI: 10.1016/j.ejor.2012.07.016..

Fredj K., G. Martin-Herran, M. Tidball and A. Jean-Marie (2010), “Banking or no Banking: Effects of transaction costs”, *Tenth International Symposium on Dynamic Games and Applications*.

Opio, C., K. Fredj, and B. Wang, (2009), “Profitability of manual brushing in young lodgepole pine plantations”, *BC Journal of Ecosystems and Management*, vol. 10(1), page 15-21.

Breton M., K. Fredj, and G. Zaccour, (2006), “International cooperation, Coalitions Stability and Free-riding in a Game of Pollution Control”, *The Manchester School*, Vol. 74, Issue No.1, Page 103-122.

Fredj, K., G. Martìn-Herràn, and G. Zaccour, (2006) “Incentive mechanisms to enforce sustainable forest exploitation”, *Environmental modelling & assessment*, Vol. 11, Page 145-156.

Karima Fredj and Sungchul Choi (2006), “Store Brands and Store Competition”, Proceedings of Global Conference On Business and Economics.

Fredj, K., G. Martìn-Herràn, and G. Zaccour (2004), “Slowing Deforestation Pace through Subsidies: A Differential Game”, *Automatica*, Volume 40, Issue 2 , Pages 301-309.

Fredj K. (2004), “Application of game theory to global environmental problems”, *Ph.D. thesis*, under the supervision of Professors George Zaccour and Michele Breton.

Breton M., K. Fredj, and G. Zaccour (2002), “Characteristic Functions, Coalitions Stability and Free-riding in a Game of Pollution Control, *Proceedings of the Tenth International Symposium on Dynamic Games and Applications*, vol. I, pp. 129-38, L.A Petrosjan and N.A Zenkevich (ed.).

Fredj K. (1998), “Cost sharing and stability: the case of a tree network“, *Master thesis*, under the supervision of Professor Yves Sprumont.

Book review

M.A. Quaddus and M.A.B. Siddique, eds., (2004) *Handbook of sustainable development planning studies in modeling and decision support*, Edward Elgar Publishers. Reviewed in *Canadian Journal of Development Studies* (2005), issue No. 4, Volume XXVI, pp. 891-892.

Journal reviewing

- ❑ European Journal of Operational Research
- ❑ Environmental Modeling and Assessment

CONFERENCE PRESENTATIONS

International Studies Association annual convention,

San Diego, USA 01/04/2012-

“Secrets Without Borders?- A Game Theoretic Analysis of International Intelligence Cooperation”

14th International Symposium on Dynamic Games and Applications

Banff, Canada 19/06/2010

“Price Competition and store competition: Store brands vs. National Brand”

14th International Symposium on Dynamic Games and Applications

Banff, Canada 23/06/2010

“Banking or no banking? The effects of transaction costs”

Optimization Days

HEC Montreal, Canada 08/05/2007

“Store Brands and Store Competition”

6th Global conference on Business and Economics

Harvard, Boston. 16/10/2006
“Store Brands and Store Competition”

International Economic Atlantic Conference

Berlin, Germany. 17/03/2006
“Incentive mechanism to enforce sustainable forest exploitation”

11th International Symposium on Dynamic Games and Applications

Tucson, U.S.A. 12/01/2004
“Incentive mechanism to enforce sustainable forest exploitation”

European Summer School in resource and Environmental Economics

Venice, Italy 07/04/2004
“Incentive mechanism to enforce sustainable forest exploitation”

International Conference on Economics of Sustainable Forest Management

Toronto, Canada 05/22/2004
“Incentive mechanism to enforce sustainable forest exploitation”

Montreal Natural Resources and Environmental Economics Workshop

McGill University, Montreal, Canada, Winter 2004.
“Slowing Deforestation Pace through Subsidies : A Differential Game”

Canadian Economic Association Annual Meeting

Carlton University, Ottawa, Canada (2003)
“Slowing Deforestation Pace through Subsidies: A Differential Game Approach”.

Optimization Days

HEC Montreal, Montreal, ca (2003)
“Slowing Deforestation Pace through Subsidies: A Differential Game Approach”.

Workshop on Optimal Control and Dynamic Games

Tunisia, (2002)
“Slowing Deforestation Pace through Subsidies: A Differential Game Approach”.

10th International Symposium on Dynamic Games and Applications

St-Petersburg, Russia, (2002)
“Characteristic Functions, Coalitions Stability and Free-riding in a Game of Pollution Control”

Optimization Days

HEC Montréal, Montreal, ca (2002)
“Characteristic Functions, Coalitions Stability and Free-riding in a Game of Pollution Control”

Optimization Days

HEC Montréal, Montreal, ca (2001)
“Cost sharing and stability in a case of a tree network“

INVITED TALKS

23/09/2011- the Global Friday seminar series, University of Northern British Columbia, Prince George, Canada

“The Arab Spring- the Jasmine revolution”

AWARDS and ACHEIVEMENTS

Research Seed grant- March 2007
Office of the Vice President Research, UNBC.

Conference Travel Grant- May 2007
Office of the Vice President Research, UNBC.

Award for the Best 2004-2005 PhD Thesis of HEC Montreal- March 2006
Office of Development, HEC Montréal.

Conference Travel Grant- March 2005
Office of the Vice President Research, UNBC.

Recognition price of student’s scientific publication -2004
Office of Development, HEC Montréal.

Ph.D. Fellowship, 2004
HEC, Montreal.

XXIst century Bursary for excellence -2001
Office of Development, HEC Montréal.

Henry Laureys Bursary for excellence -2000
Office of Development, HEC Montréal.

Ph.D. Fellowship –1989 - 1999
Université de Montreal

Dean’s Prize-list of master degree students -1998
Université de Montreal

Fellowship of the Canadian Agency for Development (ACDI) -1996/1998

Research affiliation

- Association of Environmental and Resource Economists (AERE),
- The International Society of Dynamic Games (ISDG).

Teaching

- Benefit Cost Analysis- Winter 2010-present, UNBC
- Intermediate Microeconomics- Fall 2008-present, UNBC.
- Advanced Microeconomics- Fall 2006-present, UNBC.

- ❑ Introduction to Microeconomics- 2004-present, UNBC.
- ❑ Environmental Economics- Fall 2004 -present, UNBC.
- ❑ Forest Economics- winter 2005 to 2007, UNBC.
- ❑ Ecological Economics- guest lecturer, fall 2005 School of Environmental planning, UNBC.
- ❑ Managerial Economics- fall 2004, winter 2004, HEC Montreal.

Service

- ❑ UNBC Faculty Association Executive (Member at large): 2010-Present.
- ❑ UNBC Harassment and Discrimination Panel: 2008-present
- ❑ UNBC Parking Appeals Board: 2008-present.
- ❑ UNBC PICS hiring committee for a campus coordinator for PICS (Pacific Institute for Climate Solutions). 2008-2009
- ❑ Associate Graduate Advisor: 2005-2008.
- ❑ Program contact for Economics' BA students SSHRC competition: 2006-2007.
- ❑ Northern Economics Students Society faculty representative: 2004-2007

ADDITIONNEL INFORMATION

COMPUTER SKILLS Scientific Work place, Matlab, Mathematica, Word, Excel, PowerPoint, Access, Visio, Shazam, Gauss.

LANGUAGES English, French, Arabic.