

## **ÉRIC AKCEL BAHÉL**

March 2017

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### **EMPLOYMENT**

Fall 2016: Visiting Professor, Department of Economics, Université de Montréal

2015- Present: Associate Professor, Department of Economics, Virginia Tech

2009-2015: Assistant Professor, Department of Economics, Virginia Tech

Winter 2008: Instructor, Université de Montréal

Winter 2007: Teaching assistant, Université de Montréal

2002-2003: Statistician, GTZ (German Technical Cooperation)

### **EDUCATION**

#### Economics

Ph.D. in Economics, Université de Montréal (Canada), 2009, dissertation: «Essays in theoretical and applied microeconomics», advisors: Yves Sprumont and Gérard Gaudet

M.Sc. in Economics, Université d'Auvergne (France), 2004

B.Sc. in Statistics and Economics, ISSEA (Cameroon), 2002

#### Other degrees

M.A.S. in Development Project Management, CERDI (France), 2004

DEUG in Mathematics, Université de Yaoundé I (Cameroon), 2000

### **ACADEMIC INTERESTS**

Microeconomic Theory, Game Theory, Resource and Environmental Economics

### **TEACHING EXPERIENCE**

Graduate: Microeconomic Theory, Advanced Game Theory

Undergraduate: Game Theory, Mathematics for Economists

## **PUBLICATIONS AND ACCEPTED PAPERS**

- [1] “Cooperation and Subgame Perfect Equilibria in Global Pollution Problems with Critical Threshold”, March 2017, forthcoming in *Environmental and Resource Economics*
- [2] “On the Core and Bargaining Set of a Veto Game, *International Journal of Game Theory* 45(3), 2016, pp. 543–566
- [3] “International Environmental Agreements under Endogenous Uncertainty” (with Walid Marrouch and Bruno Nkuiya), *Journal of Public Economic Theory* 17(5), 2015, pp. 752–772
- [4] “Stable Lexicographic Rules for Shortest Path Games” (with Christian Trudeau), *Economics Letters*, Vol. 125, Issue 2, 2014, pp. 266–269
- [5] “Shapley-Shubik Methods in Cost Sharing Problems with Technological Cooperation” (with Christian Trudeau), *Social Choice and Welfare*, Vol. 43, Issue 2, 2014, pp. 261–285
- [6] “Cycles with Undistinguished Actions and Extended Rock-Paper-Scissors Games” (with Hans Haller), *Economics Letters*, Vol. 120, Issue 3, 2013, pp. 588–591
- [7] “The Economics of Oil, Biofuel and Food Commodities” (with Gérard Gaudet and Walid Marrouch), *Resource and Energy Economics*, Vol. 35, Issue 4, 2013, pp. 599–617
- [8] “A Discrete Cost Sharing Model with Technological Cooperation” (with Christian Trudeau), *International Journal of Game Theory*, Vol. 42, Issue 2, 2013, pp. 439–460
- [9] “Rock-Paper-Scissors and Cycle-Based Games”, *Economics Letters*, Vol. 115, Issue 3, 2012, pp. 401–403
- [10] “Optimal Management of Strategic Reserves of Nonrenewable Natural Resources”, *Journal of Environmental Economics and Management*, Vol. 61, Issue 3, 2011, pp. 267–280
- [11] “The Implications of the Ranking Axiom for Discrete Cost Sharing Methods”, *International Journal of Game Theory*, Vol. 40, Issue 3, 2011, pp. 551–589

## **WORKING PAPERS**

- [1] “Consistency Requirements and Pattern Methods in Cost Sharing Problems with Technological Cooperation” (with Christian Trudeau), January 2017, R&R at *International Journal of Game Theory*
- [2] From Spanning Trees to Arborescences: New and Extended Cost Sharing Solutions” (with Christian Trudeau), July 2016, R&R at *Social Choice and Welfare*
- [3] “Stable Cost Sharing in Production Allocation Games” (with Christian Trudeau), July 2016
- [4] “Strategic Resource Extraction and Substitute Adoption under Learning by Doing” (with Ujjayant Chakravorty), December 2015

## **WORK IN PROGRESS**

- Strategy-Proof Choice of Acts (with Yves Sprumont)
- “Strategic Lying and Cooperative Behavior in Games” (with Sheryl Ball and Sudipta Sarangi)
- “Stable Cost Sharing in Congestion Networks” (with Christian Trudeau)
- “International Environmental Agreements with Heterogeneous Critical Thresholds”

## **SELECTED PRESENTATIONS**

- [1] “Cooperation and Subgame Perfect Equilibria in Global Pollution Problems”
- Queen's University Belfast, October 2016
  - Montreal Environment and Resource Economics Workshop, September 2016
  - CCER - NBER Conference, June 2016, Beijing
- [2] “From Spanning Trees to Arborescences: New and Extended Cost Sharing Solutions”
- 5<sup>th</sup> World Congress of the Game Theory Society, July 2016, Maastricht
  - 12<sup>th</sup> European Meeting on Game Theory, July 2016, Odense
- [3] “Stable Cost Sharing in Congestion Networks”,
- Concordia University, Montreal, December 2016
  - University of Glasgow, October 2016
  - Université de Montréal, October 2016
  - GATE Sant-Etienne, July 2016
  - HEC Montréal (GERAD), March 2016
- [4] “Stable Cost Sharing in Production Allocation Games”, July 2015, Stony Brook, 26<sup>th</sup> International Conference on Game Theory
- [5] “Markov Strategies and Cooperation in Asymmetric International Pollution Control Problems”, July 2015, 10th Workshop of the International Society of Dynamic Games
- [6] “On the Core and Bargaining Set of a Veto Game”, 10th Spain-Italy-Netherlands Meeting on Game Theory (SING10), Krakow, July 2014
- [7] “Stable Lexicographic Rules for Shortest Path Games”, Society for Social Choice and Welfare, Boston, June 2014
- [8] “Strategic Resource Dependence and Adoption of a Substitute under Learning-by-Doing”
- 9th Spain-Italy-Netherlands Meeting on Game Theory (SING9), Vigo, July 2013
  - European Association of Environmental and Resource Economists (EAERE), Toulouse, June 2013
  - Montreal Environment and Resource Economics Workshop, March 2013
- [9] “An n-Country Model of Strategic Emissions Abatement: Feedback Strategies and Cooperation”

- 7th Annual Symposium on Economic Theory, Policy and Applications, Athens, July 2012
- European Association of Environmental and Resource Economists (EAERE), Rome, June 2011
- University of Windsor, Economics Seminar Series, October 2010

[10] “The Economics of Oil, Biofuel and Food Commodities”

- CIREQ Conference in honor of Gérard Gaudet: Environmental and Resource Economics - 80 Years after Hotelling, Montreal, April 2011
- World Congress of Environmental and Resource Economists (WCERE), Montreal, June 2010

[11] “Optimal Management of Strategic Reserves of Non-renewable Natural Resources”

- European Association of Environmental and Resource Economists (EAERE), Amsterdam, June 2009
- Rochester Institute of Technology, January 2009
- Montreal Environment and Resource Economics Workshop, March 2008
- Canadian Resource and Environmental Economics Study Group (CREE), Toronto, October 2008

[12] “The Implications of the Ranking Axiom for Discrete Cost Sharing Methods”

- Canadian Economic Association, Vancouver, June 2008
- Société Canadienne de Science Économique, Montebello, May 2008

### **PhD ADVISEES (month of dissertation defense) Employer**

- 1- Hoe Sang Chung (August 2013) Korea Economic Research Institute
- 2- Ming Yi (April 2014) Huazhong University of Science & Technology

### **SERVICE**

- **Referee:** Econometrica, Journal of Economic Theory, Games and Economic Behavior, Theoretical Economics, Journal of Environmental Economics and Management, International Journal of Game Theory, Social Choice and Welfare, Canadian Journal of Economics, Scandinavian Journal of Economics, Mathematical Social Sciences, Journal of Public Economic Theory, Energy Policy, International Game Theory Review, European Journal of Operational Research, Resource and Energy Economics, Operations Research Letters
- **Session Chair:** EAERE 2013 (Regulation and Externalities III), WCERE 2010 (Impacts of Biofuel Policies II)
- **Search Committee for the next Dean of the College of Science (COS):** 2015/2016

- **Promotion and Tenure Committee of the COS:** 2015/2016
- **Search Committees (Economics, Virginia Tech):**  
Department Head (2011-2015), Assistant Professor of Microeconomics (2010/2011)
- **Editorial Board of the COS Student Research Magazine (at VT):** 2012/2013
- **COS Diversity Committee:** 2012-2015

### **PROFESSIONAL MEMBERSHIPS (PAST AND PRESENT)**

American Economic Association, Association of Environmental and Resource Economists, Canadian Economics Association, Canadian Resource and Environmental Economics Study Group, European Association of Environmental and Resource Economists, Société Canadienne de Science Économique, Society for Social Choice and Welfare

### **GRANTS, AWARDS AND FELLOWSHIPS**

2016: “*Strategic Lying and Cooperative Behavior in Games*”. Eric Bahel (PI), Sheryl Ball, Sudipta Sarangi, Pearl Chiu and Brooks King-Casas. Award of \$19,650 by ISCE (Summer Scholars Program).

2016: “*Financial Resilience of the US Mortgage Markets: The Network Approach*”. Kwok Ping Tsang (PI), Eric Bahel and Sudipta Sarangi. Award of \$14,250 by the Global Forum on Urban & Regional resilience.

2015-2016: VT Department of Economics Undergraduate Courses Faculty of the Year

2014-2018: Social Sciences and Humanities Research Council (SSHRC) Insight Grant: “*Fairness, Stability, and Non-Manipulability in the Presence of Intermediaries*”, Collaborator of Christian Trudeau (PI).

2011-2016: International Travel Grants (Virginia Tech)

2015-2016: VT Department of Economics Outstanding Service Award

2012-2013: VT Department of Economics Undergraduate Courses Faculty of the Year

2008-2009: Ph.D. Fellowship, Fonds de recherche sur la société et la culture (FQRSC)

2004-2008: Ph.D. Fellowship, CIREQ and Université de Montréal

2003-2004: Full Scholarship, French Ministry of Foreign Affairs, CERDI

### **LANGUAGES**

Banen (mother tongue), English (fluent), French (native), German (some), Latin (some)