

Fabian D.M.E. BASTIN

Ph.D. in MATHEMATICS

2187 Boulevard Perrot
Notre-Dame-De-L'Ile-Perrot, Québec
Canada, J7V 8P4

Tel. : +1 514 656 6518
Cell. : +1 438 937 6952

Born : June 8, 1977, Bastogne, Belgium
Nationality : Belgian
Married, one child
Driving license (Belgian, Quebecian)

University of Montreal
André-Aisenstadt Building
Department of Computing Science
and Operational Research
CP 6128 Succursale Centre-Ville
Montreal QC H3C 3J7
Canada

Tel. : +1 514 343 6952
Fax : +1 514 343 5834
email : bastin@iro.umontreal.ca
Homepage : <http://www.iro.umontreal.ca/~bastin>

Research interests

- Nonlinear programming
- Stochastic programming
- Simulation

History

- 06/2013**– Associate Professor, Department of Computing Science and Operational Research, Université de Montreal, Quebec, Canada.
- 01/2007–05/1013** Assistant Professor, Department of Computing Science and Operational Research, Université de Montreal, Quebec, Canada.
- 04/2011–04/2011** Invited Professor, Department of Mathematics, University of Namur (Facultés Universitaires Notre-Dame de la Paix – FUNDP), Namur, Belgium.
- 01/2005–12/2006** Post-doctoral researcher, European Centre for Research and Advanced Training in Scientific Computation (CERFACS), Toulouse, France.
- 10/2004–12/2004** Post-doctoral researcher. Centre for Transport Studies, Imperial College London, United Kingdom.
- 10/2000–09/2004** F.N.R.S. (National Fund for Scientific Research) Research Fellow, Department of Mathematics, University of Namur, Belgium.
2004 : Ph.D. in Mathematics, *Trust-Region Algorithms for Nonlinear Stochastic Programming and Mixed Logit Models*. Board : Michel BIERLAIRE (Ecole Polytechnique Fédérale de Lausanne, Switzerland), François LOUVEAUX (Namur, chairman), Marcel RÉMON (University of Namur), John POLAK (Imperial College, London, United Kingdom), Annick SARTE-NAER (University of Namur), Philippe L. TOINT (FUNDP - University of Namur, advisor).
- 2001** Inter-University DEA (postgraduate degree) in Mathematics, Department of Mathematics, University of Namur, Belgium. Title of the DEA thesis : *Nonlinear Stochastic Programming*. Advisor : François Louveaux. Co-advisor : Philippe L. Toint.
- 09/1999–09/2000** Researcher, Transportation Research Group (TRG), Department of Mathematics, University of Namur, Belgium.
- 1999** Graduate studies in Mathematics, Department of Mathematics, University of Namur, Belgium. Title of the Master's Thesis : *Analyse des modèles de poursuite et de changement de bande*, work made in collaboration with the Transportation Research Groupe (TRG),

FUNDP - University of Namur. Advisor : Philippe L. Toint (FUNDP - University of Namur). Thesis director : Éric Cornéris (FUNDP - University of Namur).

Grade : The highest honors with jury's congratulations.

1997 Undergraduate studies in Mathematics, Department of Mathematics, University of Namur, Belgium.

Grade : The highest honors.

1995 Secondary School, General Orientation. Institut Notre-Dame Séminaire, Bastogne, Belgium.

Publications

Peer-reviewed journals

1. Mostafa Nasri, Fabian Bastin, and Patrice Marcotte, *Quantifying the worst-case social welfare loss in a risk-neutral principal-agent model*. To appear in European Journal of Operational Research.
2. Cinzia Cirillo, Renting Xu, and Fabian Bastin, *A dynamic formulation for car ownership modeling*. To appear in Transportation Science.
3. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *Managing Hydroelectric Reservoirs over an Extended Horizon using Benders Decomposition with a Memory Loss Assumption*. To appear in IEEE Transactions on Power Systems.
4. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *Midterm Hydro Generation Scheduling Under Uncertainty Using the Progressive Hedging Algorithm*, Water Resources Research 49(5), pp. 2812–2827, 2013.
5. Fabian Bastin and Cinzia Cirillo, *Discrete choice estimators properties for finite population and simulation sample sizes*. Transportation Research Record 2302, pp. 23–28, 2012.
6. David Munger, Pierre L'Ecuyer, Fabian Bastin, Cinzia Cirillo, and Bruno Tuffin, *Estimation of the Mixed Logit Likelihood Function by Randomized Quasi-Monte Carlo*. Transportation Research Part B 46(2), pp. 305–320, 2012.
7. Fabian Bastin and Cinzia Cirillo, *On the information matrix in mixed logit models estimation*. Transportation Research Record 2254, pp. 11–18, 2011.
8. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Estimating non-parametric random utility models, with an application to the value of time in heterogeneous populations*, Transportation Science 44(4), pp. 537–549, 2010.
9. Fabian Bastin and Cinzia Cirillo, *Reducing simulation bias in mixed logit model estimation*, Journal of Choice Modelling 3(2), pp. 71–88, 2010.
10. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Formulation and solution strategies for nonparametric nonlinear stochastic programs, with an application in finance*, Optimization 59(3), pp. 355–376, 2010.
11. Fabian Bastin, Vincent Malmedy, Mélodie Mouffe, Philippe Toint, and Dimitri Tomanos, *A retrospective trust-region method for unconstrained optimization*. Mathematical Programming 123(2), pp. 395–418, 2010.
12. Dick Ettema, Fabian Bastin, John Polak, and Olu Ashiru, *Modelling the joint choice of activity timing and duration*, Transportation Research Part A 41(9), pp 827–841, 2007.
13. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Convergence theory for nonconvex stochastic programming with an application to mixed logit*. Mathematical Programming, 108(2–3), pp 207–234, 2006.
14. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Application of an adaptive Monte Carlo algorithm to mixed logit estimation*. Transportation Research Part B 40(7), pp 577–593, 2006.

15. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint. *An adaptive Monte Carlo algorithm for computing mixed logit estimators*. Computational Management Science 3(1), pp. 55–79, 2006.
16. Fabian Bastin, Cinzia Cirillo, and Stéphane Hess, *Evaluation of advanced optimisation methods for estimating mixed logit models*. Transportation Research Record, Vol. 1921, pp. 35–43, 2005.

Submitted for publication

1. Tien Mai, Emma Frejinger, and Fabian Bastin, *A misspecification test for logit based route choice models* 2014. CIRRELT report 2014-32.
2. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *Optimal scenario set partitioning for multistage stochastic programming with the progressive hedging algorithm*, 2013. CIRRELT report 2013-55.
3. D. Ataee Tarzanagh, M. Reza Peyghami, Fabian Bastin, *A new nonmonotone adaptive retrospective trust region method for unconstrained optimization problems*, 2013.

Peer-reviewed proceedings

1. Fabian Bastin, *Bias evaluation and reduction for sample-path optimization*, Monte Carlo Methods and Applications : Proceedings of the 8th IMACS Seminar on Monte Carlo Methods, editors : Karl K. Sabelfeld, Ivan Dimov and Mario K. Ullrich, pp. 47–57, De Gruyter, Berlin, Germany, 2013.

Proceedings (with selection committee)

1. Fabian Bastin and Cinzia Cirillo, *On the asymptotic properties of complex discrete choice model estimators*, Proceedings of the *European Transport Conference*, Glasgow, United Kingdom, October 10–12, 2011.
2. Fabian Bastin, Cinzia Cirillo, Pierre L’Ecuyer, David Munger, and Bruno Tuffin, *Estimation strategies for mixed logit models*, Proceedings of the 12th International Association for Travel Behaviour Research Workshop (CD-ROM), Jaipur, India, December 13–18, 2009.
3. Fabian Bastin et Cinzia Cirillo, *On the use of statistical tests in mixed logit estimation*, International Choice Modelling Conference, Harrogate, United Kingdom, March 30–April 1, 2009.
4. Fabian Bastin and Cinzia Cirillo, *Reducing simulation bias in mixed logit model estimation*, Proceedings of the *European Transport Conference*, Leeuwenhorst, Conference Centre, The Netherlands, October 06–08, 2008.
5. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Estimating mixed logit with non-parametric random variables*, Proceedings of the *European Transport Conference*, Strasbourg, France, September 18–20, 2006.
6. Dick Ettema, Fabian Bastin, John Polak, and Olu Ashiru, *Taste Heterogeneity and Substitution Patterns in Models of the Simultaneous Choice of Activity Timing and Duration*, Proceedings of the 45th Congress of the European Regional Science Association, Amsterdam, The Netherlands, August 23–27, 2005.
7. Fabian Bastin, *An adaptive trust-region approach for nonlinear stochastic optimisation with an application in discrete choice theory*, in Dagstuhl Seminar Proceedings 05031, *Algorithms for Optimization with Incomplete Information*, S. Albers, R. H. Möhring, G. Ch. Pflug, R. Schultz (Eds), 2005.

8. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Estimating mixed logit models with quasi-Monte Carlo sequences allowing practical error estimation*, Proceedings (CD-ROM) of *European Transport Conference*, Strasbourg, France, October 4–6, 2004.
9. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *A new efficient Monte Carlo algorithm for estimating mixed logit models*, Proceedings (CD-ROM) of *TRISTAN V : The Fifth Triennial Symposium on Transportation Analysis*, Le Gosier, Guadeloupe, June 13–18, 2004.
10. Fabian Bastin, Cinzia Cirillo, Pierre L’Ecuyer, David Munger, and Bruno Tuffin, *Estimation strategies for mixed logit models*, Proceedings of the 12th Conference of The International Association for Travel Behaviour Research (CD-ROM), Jaipur, India, December 13-18, 2009.
11. Fabian Bastin, and Cinzia Cirillo, *On the use of statistical tests in mixed logit estimation*, International Choice Modelling Conference, Harrogate, United Kingdom, March 30-April 1, 2009.
12. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Numerical experiments with AMLET, a new Monte Carlo algorithm for estimating mixed logit models*, Proceedings (CD-ROM) of the *10th International Conference on Travel Behaviour Research*, Lucerne, Switzerland, August 10-14, 2003.

Research reports

1. Étienne Ayotte-Sauvé, Fabian Bastin, Angelo Lucia, Julio Montecinos, and Shouraz Mirzalizadeh, *Minimum Energy Requirements of the Distillation Process* Proceedings of the Third Montreal Industrial Problem Solving Workshop, Odile Marcotte (editor), CRM Research Report no CRM-3315, pp. 17–26, 2011.
2. Fabian Bastin, Etienne Ayotte-Sauvé, Luciana Savulescu, Pierre Dérian, Nathan Martin, Qutaibeh Katatbeh, Zanin Kavazovic, Julio Montecinos, Mason Porter, Marius Posta, and Mario L. Morfin Ramirez, *Optimal retrofit of a heat recovery network at a pulp and paper mill for minimizing energy and water consumption*, Proceedings of the Second Montreal Industrial Problem Solving Workshop, Odile Marcotte (editor), CRM Research Report nb CRM-3277, pp. 19–28, 2009.

Miscellaneous (except theses)

1. *Calibration d’un modèle de poursuite pour la Région Wallonne*, Project Report, TRG, University of Namur, Namur, January, 2001.
2. *Analyse des modèles de poursuite*, GRTinfo 5, University of Namur, Namur, December, 1998.

Teaching (UdeM)

1. IFT1575 – Operational research models (Modèles de recherche opérationnelle), DIRO, FAS, 1st cycle, Winter 2010, 3 credits.
2. IFT2505 – Optimization techniques I (Techniques d’optimization I), DIRO, FAS, 1st cycle, Fall 2011–2013, 3 credits.
3. IFT3245 – Simulation and models (Simulation et modèles), DIRO, FAS, 1st cycle, Fall 2007–2012, 3 credits.
4. IFT6512 – Stochastic programming (Programmation stochastique), DIRO, FAS, 2nd cycle, Winter 2008, 2011, 4 credits.

5. IFT6521 – Dynamic programming (Programmation dynamique), DIRO, FAS, 2nd cycle, Winter 2009, 2011, Fall 2013, 4 credits.
6. IFT6561 – Simulation : stochastic aspects (Simulation : aspects stochastiques), DIRO, FAS, 2nd cycle, Winter 2007, 4 credits.

Student supervision

Postdoctorate

1. Mostafa Nasri, Université de Montréal, under co-supervision with Patrice Marcotte, September 2009–March 2012.

Ph.D.

1. Anh Thuy Ta, University of Montréal, under co-supervision with Pierre L’Ecuyer, since January 2014.
2. Léonard Ryo Morin, University of Montréal, under co-supervision with Emma Frejinger, since September 2013.
3. Tien Mai Anh, University of Montréal, under co-supervision with Emma Frejinger, since May 2013.
4. Pierre-Luc Carpentier, Ecole Polytechnique de Montréal, under co-supervision with Michel Gendreau, March 2010–December 2013.
5. Shohre Zehtabian, University of Montréal, since September 2010.
6. Tamer Fares Samir Gayed, University of Montréal, en co-direction avec Pierre L’Ecuyer, May 2009 – December 2009 (abandonment).

Master

1. Hicham Babahadda, Pierre-Luc Carpentier, Ecole Polytechnique de Montréal, under co-supervision with Michel Gendreau, since September 2012.
2. Ghassen Mahfoudhi, University of Montreal, under co-supervision with Michel Gendreau, since 1 September 2012.
3. Ta Thuy Anh, University of Montréal, under co-supervision with Pierre L’Ecuyer, September 2011–December 2013.
4. Léonard Ryo Morin, University of Montréal, January 2011–May 2013.
5. Tien Mai Anh, University of Montréal, under co-supervision with Michel Toulouse, September 2010–May 2013.
6. Abdelhamit Mahamat Alim, University of Montréal, under co-supervision with Patrice Marcotte, since September 2010.
7. Nian Zhun Chang, University of Montréal, under co-supervision with Michel Toulouse, 1 September 2008–31 July 2009 (abandonment).

Trainee students and collaboration exchanges

1. Anne-Laure Mazoyer and Blandine Saintemarie, “Élaboration d’un simulateur de la production d’Hydro-Québec”, academic year 2013–2014, exchange with INSA Rouen.
2. Pratt Hetrakul, “Dynamic discrete choice model for revenue management”, 1 August to 30 September 2011. Exchange with the University of Maryland.

3. Marion Hautbois, Department of Mathematical Engineering, INSA, Toulouse, France, “Mise en place de collecteurs statistiques”, 1 July to 30 September 2011.
4. Léonard Ryo Morin, Department of Computing Science and Operational Research, University of Montreal, “Choix de chemin par attirance/répulsion”, 1 July to 30 September 2010.
5. Mathieu Lemoine, Department of Computing Science and Operational Research, University of Montreal, “Simultaneous Water and Energy Network Optimization in the Canadian Pulp and Paper Industry”, 1 January to 30 August 2010. ”Accélération Québec” program, in partnership with CanmetEnergy Varennes, Natural Resources Canada.
6. Renting Xu, Ph. D. Student under supervision of Cinzia Cirillo, University of Maryland, USA, “Dynamic discrete choice model”, 1 May to 30 August 2009, 24 April to 19 May 2010.
7. Pierre Derian, Department of Mathematical Engineering, INSA, Toulouse, France, “Prédictions en modèles mixed logit”, 1 July to 30 September 2008.
8. Nathan Martin, Department of Mathematical Engineering, INSA, Toulouse, France, “Mise en place d’une stratégie adaptative de mise à jour de l’approximation de la hessienne au sein d’un algorithme de région de confiance”, 1 July to 30 September 2008.
9. Adrien Bonneau, Department of Mathematical Engineering, INSA, Toulouse, France, “Développements de techniques de réduction de biais pour des algorithmes adaptatifs en théorie des choix discrets : implémentation et évaluation”, 1 July to 30 September 2007.

Additional teaching experience

Lecturer

- Visiting professor at the Department of Mathematics of the University of Namur, Belgium, for 22.50 hours, for the class ”Questions spéciales de mathématiques : théorie des choix discrets et introduction à la cartographie assistée par ordinateur (SIG)”.
- Numerical Analysis (21h), ENSICA (Ecole Nationale Supérieure d’Ingénieurs de Constructions Aéronautiques), Toulouse (France), 2005.

Exercises

Exercises supervision in the Department of Mathematics, Faculty of Sciences, University of Namur, from 1999 to 2003 :

1. Second year of second cycle in Mathematical Science :
 - Nonlinear Programming (30h), in 1999-2000 ;
 - Programming : special topics (30h), in 2002-2003 ;
2. First year of second cycle in Mathematical Science :
 - Practical exercises in programming (30h), from 1999 to 2002.

Other responsibilities

- Responsable of the DESS and Master program “Mathematical and Computational Finance”, University of Montreal, since June 2011.
- Member of the graduate and post-graduate studies at the Department of Computer Science and Operational Research, University of Montreal, from September 2007 to June 2011.

Participation to examining boards

Doctoral exams

1. Morad Hosseinalifam, *A mathematical programming framework for network capacity control in customer choice-based revenue management*, Department of Applied Mathematics and Industrial Engineering, Ecole Polytechnique de Montréal, August 2014.
2. Sanjay Dominik Jena, *Dynamic facility location with modular capacities : models, algorithms and applications in forestry*, Department of Computing Science and Operational Research, Université de Montréal, July 2014.
3. Jean-François Côté, *Problèmes de tournées de véhicules avec contraintes de chargement*, Department of Computing Science and Operational Research, Université de Montréal, February 2014.
4. Wyeon Chan, *Optimisation des horaires des agents et du routage des appels dans les centres d'appels*, Department of Computing Science and Operational Research, Université de Montréal, December 2013.
5. Shadi Sharif Azadeh, *Demand Forecasting in Revenue Management Systems*, Department of Applied Mathematics and Industrial Engineering, Ecole Polytechnique de Montréal, August 2013.
6. Mehdi Twhidi, *Treatment of degeneracy in linear and quadratic programming*, Department of Applied Mathematics and Industrial Engineering, Ecole Polytechnique de Montréal, April 2013.
7. Cong-Kien Dang, *Optimization of algorithms with the OPAL framework*, Department of Applied Mathematics and Industrial Engineering, Ecole Polytechnique de Montréal, June 2012.
8. François Gilbert, *Tarification Logit dans un réseau*, Department of Computing Science and Operational Research, Université de Montréal, April 2012.
9. Renting Xu, *Dynamic Discrete Choice Models for Car Ownership Modeling*, Department of Civil and Environmental Engineering, University of Maryland, November 2011.
10. Claudio Contardo, *Models and Algorithms for the Capacitated Location-Routing Problem*, Department of Computing Science and Operational Research, Université de Montréal, September 2011.
11. Koffi Etienne Ogoubi, *Approche efficace pour la conception des architectures multiprocesseurs sur puce électronique*, Department of Computing Science and Operational Research, Université de Montréal, June 2011.
12. Jihène Rezgui, *Gestion adaptative des ressources dans les réseaux maillés sans fil à multiples-radios multiples-canaux*, Department of Computing Science and Operational Research, Université de Montréal, November 2010.
13. Eric Buist, *Simulation de centres de contacts*, Department of Computing Science and Operational Research, Université de Montréal, May 2009.

Predoctoral exams

1. Mohammad Rahim Akhavan Kazemzadeh, *Multilayer Network Design*, Department of Computing Science and Operational Research, Université de Montréal, August 2013.
2. Majid Salavati-Khoshghalb, *Designing a threshold-based recourse function for computing the expected cost in the vehicle routing problem with stochastic demand*, Department of Computing Science and Operational Research, Université de Montréal, August 2013.
3. HQ
4. Géraldine Gemieux, *L'intégration de la planification de la récolte, de l'inventaire et du transport dans le secteur forestier*, Department of Computing Science and Operational Research, Université de Montréal, May 2011,

5. Thibault Vidal, *Métaheuristiques pour les problèmes de tournées de véhicules multi-attributs*, Department of Computing Science and Operational Research, Université de Montréal, February 2011.
6. Sylvain Arreckx, *Une méthode de pénalisation pour l'optimisation de matériau libre*, Ecole Polytechnique, Montreal, December 2010.
7. Pierre-Luc Carpentier, *Planification hebdomadaire de la production hydroélectrique sous incertitude*, Ecole Polytechnique, Montreal, November 2010.
8. Renting Xu, *Dynamic discrete choice models for car ownership modeling*, Department of Civil & Environmental Engineering, University of Maryland, October 2010.
9. Vu Duc Minh, *Capacitated Multicommodity Network Design with Design-Balance Constraints*, Department of Computing Science and Operational Research, Université de Montréal, May 2010.
10. Alireza Rahimi Vahed, *Rich Vehicle Routing Problems*, Department of Computing Science and Operational Research, Université de Montréal, August 2009.
11. Marius Posta, *Méthode de résolution pour programmation combinatoire*, Department of Computing Science and Operational Research, Université de Montréal, April 2009.
12. Mustapha Boushaba, *Gestion des ressources dans les réseaux maillés sans fil*, Department of Computing Science and Operational Research, Université de Montréal, September 2008.
13. Pierre-Alexandre Tremblay, *Calcul efficace de politiques pour un problème de réplication avec applications financières*, Department of Computing Science and Operational Research, Université de Montréal, December 2007.
14. Géraldine Heilporn, *Problèmes de tarification d'un réseau de transport routier : complexité, étude polyédrale et méthodes de résolution*, Department of Computing Science and Operational Research, Université de Montréal, November 2007.
15. Zoumana Coulibaly, *Méthodes élastiques pour programmes mathématiques avec contraintes d'équilibre : théorie et implémentation*, Ecole Polytechnique, Montreal, September 2007.
16. Claudio Contardo, *The location-routing problem : literature review*, Department of Computing Science and Operational Research, Université de Montréal, September 2007.
17. Eric Buist, *Simulation de centres de contacts*, Department of Computing Science and Operational Research, Université de Montréal, August 2007.
18. Jihene Rezgui, *Qualité de service dans les réseaux maillés sans fil*, Department of Computing Science and Operational Research, Université de Montréal, July 2007.

M.Sc. theses

1. Martin Deldicque
2. Souhaïla El Filali, *Méthode de génération de colonnes pour les problèmes de conception de réseaux avec coûts d'ajout de capacité*, Department of Computing Science and Operational Research, Université de Montréal, January 2014.
3. Mohamed Zaki Ahadri, *La résolution du problème de formation de cellules dans un contexte multicritère*, Department of Computing Science and Operational Research, Université de Montréal, 2013.
4. Mathieu Larose, *Développement d'un algorithme de branch-and-price-and-cut pour le problème de conception de réseau avec coûts fixes et capacités*, Department of Computing Science and Operational Research, Université de Montréal, 2012.
5. Arbi Bouchacha, *Analyse de dépendance des programmes à objet en utilisant les modèles probabilistes des entrées*, Department of Computing Science and Operational Research, Université de Montréal, 2011.

6. François Maillet, *Algorithmes de génération automatique de liste d'écoute*, Department of Computing Science and Operational Research, Université de Montréal, 2010.
7. Olivier Breuleux, *Echantillonnage dynamique de champs Markoviens*, Department of Computing Science and Operational Research, Université de Montréal, 2009
8. Benjamin Provencher, *Recherche de régions répétées par analyse de la distribution des fréquences d'oligonucléotides*, Department of Computing Science and Operational Research, Université de Montréal, 2009.
9. Marc Julien, *Intégration d'un système d'exploitation dans le flot de développement logiciel/matériel*, Department of Computing Science and Operational Research, Université de Montréal, 2009.
10. Gauthier Abrial, *Modélisation de la demande et tarification de services de téléphonie fixe*, Ecole Polytechnique, Montreal, 2008.
11. Michel Konstantinou, *Modéliser la demande de transport au travers d'une analyse basée sur les activités*, Department of Mathematics, FUNDP, Namur, Belgium, 2004.
12. Catherine Roegiers, *Algorithmes évolutionnaires pour la programmation non-linéaire globale*, Department of Mathematics, FUNDP, Namur, Belgium, 2004.
13. Thomas De Bodt, *Analyse d'images et reconnaissance d'objets*, Department of Mathematics, FUNDP, Namur, Belgium, 2003.
14. Denis Doumont, *Tests d'uniformité de nuages de points en grande dimension basés sur les diagrammes de Voronoi*, Department of Mathematics, FUNDP, Namur, Belgium, 2003.
15. Jérôme Anciaux, *Reconnaissance dynamique de formules mathématiques*, Department of Mathematics, FUNDP, Namur, Belgium, 2002.

Research fundings

1. NSERC, individual, 21,000\$/an, "Towards new solution techniques in mathematical programming with scenarios", April 2012–March 2017.
2. MITACS, Accélération Québec Program, 30,000\$, "Simultaneous Water and Energy Network Optimization in the Canadian Pulp and Paper Industry", January–August 2010. Industrial partners : CanmetEnergy Varennes of Natural Resources Canada and Tembec.
3. FQRNT, Team research project (with Pierre L'Ecuyer, Patrice Marcotte, and Gilles Savard), 52,920\$/year, "Modélisation stochastique et optimisation pour la tarification des passagers en transport aérien et ferroviaire", academic years 2008–2009, 2009–2010, 2010–2011.
4. FQRNT, New researchers establishment (individual part), 20,000\$/year, "Développement de nouveaux algorithmes adaptatifs en programmation stochastique nonlinéaire nonconvexe et en estimation de modèles de choix discrets", academic years 2008–2009, 2009–2010.
5. NSERC, individual, 17,000\$/year, "Development of innovative techniques in nonlinear and stochastic programming and applications in discrete choice theory", April 2007–March 2012.
6. Université de Montréal, starting funding, 10,000\$, January 2007.
7. Post-doctoral stay at the Centre for Transport Studies, Imperial College, London, United Kingdom, from 1 October 2004 to 31 December 2004. Grant given by Centre for Transport Studies.
8. Grant from the Communauté Française de Belgique, relative to a stay at the University of Naples Federico II, Italy, from 7 June to 6 July 2004.
9. F.N.R.S. (National Fund for Scientific Research, Belgium) Research Fellow Ph.D. grant, from October 1, 2000, to September 30, 2004.

Seminars and conferences

With communication

As invited speaker

1. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *Midterm Hydro Generation Scheduling Under Inflow Uncertainty Using the Progressive Hedging Algorithm*, 54th Annual conference of the Canadian Operational Research Society and the 10th International Conference on Multiple Objective, Niagara Falls, ON, Canada, June 11–13, 2012.
2. Fabian Bastin, *Assessment of solution quality for some nonlinear stochastic problems using bootstrap*, INFORMS annual meeting, San Diego, CA, USA, October 11–14, 2009.
3. Fabian Bastin, *Assessment of solution quality for some nonlinear stochastic problems using bootstrap*, 20th International Symposium on Mathematical Programming, Chicago, IL, USA, August 23–28, 2009.
4. Fabian Bastin, Vincent Malmedy, Mélodie Mouffe, Philippe L. Toint, and Dimitri Tomanos, *An adaptive retrospective trust-region algorithm for stochastic programming*, SIAM Conference on Optimization, Boston, MS, USA, May 10–13, 2008. Invitation to mini-symposium *Dynamics and Uncertainty in Optimization and Equilibrium Problems*.
5. Fabian Bastin, *A quick tour on (pseudo)-random numbers generation*. Department of Civil Engineering, University of Maryland, College Park, MA, USA, April 29, 2008.
6. Fabian Bastin, *Optimization principles for discrete choice theory*, Department of Civil Engineering, University of Maryland, College Park, MA, USA, April 29, 2008.
7. Fabian Bastin, *A non-parametric sampling approach for nonlinear stochastic programming*, MAPMO Seminar, Université d’Orléans, France, May 24, 2007.
8. Fabian Bastin, Annick Sartenaer, and Jie Sun. *On Interior Point Methods using a Suitable Decomposition for Multistage Stochastic Programming*, SIAM Conference on Optimization, Stockholm, Sweden, May 15–19, 2005. Invitation to mini-symposium *Decomposition Methods for Nonlinear Optimization*.
9. Fabian Bastin, *An adaptive trust-region approach for nonlinear stochastic optimisation with an application in discrete choice theory*, Algorithms for Optimization with Incomplete Information, Dagstuhl, Germany, January 16–21, 2005.
10. Fabian Bastin and Cinzia Cirillo, *Advanced computational methods to estimate mixed logit models : algorithm and software*, Centro Regionale di Competenza Trasporti CRCT, Università degli Studi di Napoli “Federico II”, Naples, Italy, June 24, 2004.
11. Fabian Bastin, *Introduction à la culture du logiciel libre et à ses aspects techniques*, “La Cathédrale et le Bazar”, Journée d’étude JuriTIC, Namur, Belgium, March 19, 2004.

As speaker

1. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, SIAM Conference on Optimization, San Diego, CA, USA, May 19–22, 2014.
2. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *A L-shaped method for midterm hydro scheduling under uncertainty*, XIII International Conference on Stochastic Programming, Bergamo, Italy, July 8–12, 2013.
3. Tien Mai Anh, Fabian Bastin, and Michel Toulouse, *Retrospective trust-region for data estimation*, 26th European Conference on Operational Research – INFORMS, Roma, Italy, July 1–4, 2013.
4. Pratt Hetrakul, Fabian Bastin et Cinzia Cirillo, *Dynamic Discrete Choice Model for Railway Ticket Cancellation and Exchange Behavior*, Journées de l’Optimisation, Montreal, QC, Canada, 6–8 mai 2013.

5. Pratt Hetrakul, Fabian Bastin et Cinzia Cirillo, *Dynamic Discrete Choice Model for Railway Ticket Cancellation and Exchange Behavior*, 10th International Conference on Computational Management Science, Montreal, QC, Canada, 1–3 mai 2013.
6. Tien Mai Anh, Fabian Bastin, and Michel Toulouse, *On the combination of Hessian approximations for data estimation*, 21th International Symposium on Mathematical Programming, Berlin, Germany, August 19–24, 2012.
7. Fabian Bastin and Cinzia Cirillo, *Modelling Multivariate Distributions in Non-Parametric RandCoefficients Logit Models*, 13th Conference of the International Association for Travel Behavior Research, Toronto, ON, Canada, July 15–20, 2012.
8. Renting Xu, Cinzia Cirillo, and Fabian Bastin, *A Dynamic Formulation for Car Ownership Modeling*, Optimization Days, Montreal, QC, Canada, May 7–9, 2012.
9. Fabian Bastin and Cinzia Cirillo, *Discrete choice estimators properties for finite population and simulation sample sizes*, Transportation Research Board Annual Meeting, Washington, D.C., USA, January 22–26, 2012.
10. Fabian Bastin, *On Bias Reduction in Stochastic Nonlinear Programming*, INFORMS Annual Meeting, Charlotte, NC, USA, November 13–16, 2011.
11. Fabian Bastin, *Bias Evaluation and Reduction for Sample-path Optimization*, Eighth IMACS Seminar on Monte Carlo Methods, Borovets, Bulgaria, August 29 – September 2, 2011.
12. Fabian Bastin, *On bias reduction in stochastic nonlinear programming*. 2011 Annual Conference of the Canadian Operational Research Society, St John’s, NL, Canada, May 30 – June 2, 2011.
13. Fabian Bastin, *On bias reduction in stochastic nonlinear programming*, 12th Conference on Stochastic Programming, Halifax, NS, Canada, August 16–20, 2010.
14. Fabian Bastin, Cinzia Cirillo, Pierre L’Ecuyer, David Munger, and Bruno Tuffin, *Efficient quasi-Monte Carlo samplings for discrete choice models*, Seventh International Triennial Calcutta Symposium on Probability and Statistics, Calcutta, West Bengal, India, December 28–31, 2009.
15. Fabian Bastin, Cinzia Cirillo, Pierre L’Ecuyer, David Munger, and Bruno Tuffin, *Estimation strategies for mixed logit models*, 12th Conference of the International Association for Travel Behavior Research, Jaipur, Rajasthan, India, December 28–31, 2009.
16. Fabian Bastin, *On the Use of Statistical Tests for Mixed Logit Estimation*, Optimization Days, Montréal, May 4–6, 2009.
17. Fabian Bastin and Cinzia Cirillo, *On the use of statistical tests in mixed logit estimation.*, International Choice Modelling Conference, Harrogate, United Kingdom, March 30–April 1, 2009.
18. Fabian Bastin, Vincent Malmedy, Mélodie Mouffe, Philippe L. Toint, and Dimitri Tomanos, *A Retrospective Trust-region Method for Unconstrained Optimization*, INFORMS Annual Meeting, Washington DC, USA, October 12–15, 2008.
19. Fabian Bastin, *On Adaptive Trust-region Methods for Nonlinear Stochastic Programming*, INFORMS Annual Meeting, Washington DC, USA, October 12–15, 2008.
20. Fabian Bastin, Vincent Malmedy, Mélodie Mouffe, Philippe L. Toint, and Dimitri Tomanos, *Adaptive retrospective trust-region methods in stochastic programming and discrete choice estimation*, MCQMC 2008, Montreal, Canada, July 6–11, 2008. Organizer of the session *Monte Carlo methods for discrete choice estimation problems*.
21. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Applications of a New Non-parametric Estimation Procedure for Discrete Choice Models*, 5th International Conference on Computational Management Science, Imperial College, London, United Kingdom, March 26–28, 2008.

22. Fabian Bastin et Pierre L'Ecuyer, *Variance reduction techniques for adaptive nonlinear stochastic programming*, INFORMS Annual Meeting, Seattle, USA, November 4–7, 2007.
23. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *A nonparametric sampling approach for nonlinear stochastic problems*, 11th Conference on Stochastic Programming, Universität Wien, Vienna, Austria, 27–31 August, 2007.
24. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Optimization techniques for estimating non-parametric econometric models*, ICCOPT II & MOPTA 07, McMaster University, Hamilton (Canada), August 13–16, 2007.
25. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Estimation of non-parametric mixed logits models in transportation research*, Optimization Days, Montreal (Canada), May 7–9, 2007.
26. Fabian Bastin and Serge Gratton, *On second-order approximations for nonlinear least-squares and nonlinear stochastic programming in discrete choice theory*, International Conference on Mathematics of Optimization and Decision Making, University Antilles-Guyane, Guadeloupe, April 18–21, 2006.
27. Fabian Bastin, *Trust-region approaches for nonlinear stochastic programming and mixed logit models*, Seminar, CERFACS, Toulouse (France), February 2, 2005.
28. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Estimating mixed logit models with quasi-Monte Carlo sequences allowing practical error estimation*, European Transport Conference, Strasbourg (France), October 4–6, 2004.
29. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Monte Carlo techniques for Nonlinear Stochastic Programming and Applications*, Optimization Days, Han-sur-Lesse (Belgium), February 19–20, 2004.
30. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Numerical Experiments with AMLET, a new Monte-Carlo algorithm for Estimating Mixed Logit Models*, 10th International Conference on Travel Behaviour Research, Lucerne (Switzerland), August 10–14, 2003.
31. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *Monte-Carlo methods for mixed-logit models*, Journées de l'Optimisation, Han-sur-Lesse (Belgium), January 16–17, 2003.
32. Fabian Bastin, Annick Sartenaer, and Jie Sun, *A Primal-Dual Algorithm for Nonlinear Stochastic Programming*, IRCM 2002, Namur (Belgium), October 10–11, 2002.
33. Fabian Bastin, Annick Sartenaer, and Jie Sun, *An Interior Point Method for Multistage Stochastic Nonlinear Programs*, SIAM Conference on Optimization, Toronto (Canada), May 20–22, 2002.
34. Fabian Bastin, Annick Sartenaer, and Jie Sun, *A new decomposition method based in interior point methods for nonlinear stochastic programming*, Optimization Days, Han-sur-Lesse, Belgium, February 21–22, 2002.
35. Fabian Bastin, *A review of nonlinear stochastic programming and its potential application to Optimal Power Flow problems*, ORBEL 16, FUSL, Brussels, Belgium, January 24–25, 2002.
36. Fabian Bastin, *Toward an efficient combination of Stochastic Programming and Trust-Region Methods*, Optimization Days, Han-sur-Lesse, Belgium, February 1–2, 2001.
37. Fabian Bastin, *A new car-following model for the Walloon Region*, ORBEL 15, Ruca, Universiteit Antwerpen, Belgium, January 29–30, 2001.

As co-author

1. Shohre Zethabian and Fabian Bastin, *A new progressive hedging algorithm for linear stochastic optimization problems*, SIAM Conference on Optimization, San Diego, CA, USA, May 19–22, 2014.

2. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *Optimal scenario set partitioning for multistage stochastic programming using the progressive hedging algorithm*, Optimization Days, Montreal, QC, Canada, May 5–7, 2014.
3. Shohre Zethabian, and Fabian Bastin, *A new progressive hedging algorithm for linear stochastic optimization problems*, Optimization Days, Montreal, QC, Canada, May 5–7, 2014.
4. Tien Mai, Emma Frejinger, and Fabian Bastin, *Decomposition method and a recursive mixture logit for route choice analysis*, Optimization Days, Montreal, QC, Canada, May 5–7, 2014.
5. Anh Thuy Ta, Pierre L'Ecuyer, and Fabian Bastin, *Staffing optimization with chance constraints in call centers*, Optimization Days, Montreal, QC, Canada, May 5–7, 2014.
6. Pratt Hetrakul, Fabian Bastin, and Cinzia Cirillo, *Dynamic Discrete Choice Model for Railway Ticket Cancellation and Exchange Behavior*, 26th European Conference on Operational Research – INFORMS, Rome, Italy, July 1–4, 2013.
7. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *A L-Shaped method for mid-term hydro scheduling under uncertainty*, 26th European Conference on Operational Research – INFORMS, Roma, Italy, July 1–4, 2013.
8. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *A L-shaped method for mid-term hydro scheduling under uncertainty*, 10th International Conference on Computational Management Science, Montreal, QC, Canada, May 1–3, 2013.
9. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *Midterm hydro generation scheduling under inflow uncertainty using the progressive hedging algorithm*, 21th International Symposium on Mathematical Programming, Berlin, Germany, August 19–24, 2012.
10. Léonard Ryo Morin and Fabian Bastin, *A dynamic attraction-repulsion route choice model for simulation*, 13th Conference of the International Association for Travel Behavior Research, Toronto, ON, Canada, July 15–20, 2012.
11. Pratt Hetrakul, Fabian Bastin, and Cinzia Cirillo, *Dynamic Discrete Choice Model for Revenue Management*, 54th Annual conference of the Canadian Operational Research Society and the 10th International Conference on Multiple Objective, Niagara Falls, ON, Canada, June 11–13, 2012.
12. Shohre Zehtabian and Fabian Bastin, *A Trust-Region Regularization for Progressive Hedging Algorithm*, 54th Annual conference of the Canadian Operational Research Society and the 10th International Conference on Multiple Objective, Niagara Falls, ON, Canada, June 11–13, 2012.
13. Pierre-Luc Carpentier, Michel Gendreau, and Fabian Bastin, *Midterm Hydro Generation Scheduling under Inflow Uncertainty Using the Progressive Hedging Algorithm*, Optimization Days, Montreal, QC, Canada, May 7–9, 2012.
14. Shohre Zehtabian and Fabian Bastin, *A Trust-Region Regularization for Progressive Hedging Algorithm*, Optimization Days, Montreal, QC, Canada, May 7–9, 2012.
15. Léonard Ryo Morin et Fabian Bastin, *Choix adaptatif en micro-simulation* Optimization Days, Montreal, QC, Canada, May 7–9, 2012.
16. Tien Anh Mai, Fabian Bastin et Michel Toulouse, *Revisiting Optimization Algorithms for Maximum Likelihood Estimation*, Optimization Days, Montreal, QC, Canada, May 7–9, 2012.
17. Pratt Hetrakul, Fabian Bastin, and Cinzia Cirillo, *Dynamic Discrete Choice Model for Revenue Management*, INFORMS Annual Meeting, Charlotte, NC, November 13–16, 2011.
18. Mathieu Lemoine, Fabian Bastin, and Etienne Ayotte-Sauvé, *Various GAMS Implementations of Mathematical Models*, Optimization Days, Montreal, QC, Canada, May 10–12, 2010. Organisateur de la session *Nonlinear Programming : Formulations and Applications*.

19. Fabian Bastin, Cinzia Cirillo, and Renting Xu, *A Dynamic Formulation for Car Ownership Modeling*, Optimization Days, Montreal, QC, Canada, May 10–12, 2010.
20. David Munger, Pierre L’Ecuyer, and Fabian Bastin, *Estimation of the Mixed-Logit Likelihood Using RQMC*, Optimization Days, Montreal, QC, Canada, May 10–12, 2010.
21. Patrice Marcotte, Fabian Bastin, and Cinzia Cirillo, *An algorithmic framework for mixed logit assignment*, INFORMS Annual Meeting, Seattle, WA, USA, November 4–7, 2007.
22. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *A non-parametric sampling approach for nonlinear stochastic programming*, 21st European Conference on Operational Research, Reykjavik (Iceland), July 2–5, 2006. Organizer of the session *Adaptive and innovative samplings techniques*, stream *Stochastic Programming*.
23. John Polak, Fabian Bastin, and Jan-Dirk Schmöcker, *Dynamic discrete choice with an intertemporal resource constraint : the case of door-to-door concessionary travel in London*, 45th Congress of the European Regional Science Association, *Land use and water management in a sustainable network society*, Amsterdam, The Netherlands, August 23–27, 2005.
24. Dick Ettema, Fabian Bastin, John Polak, and Olu Ashiru, *Taste Heterogeneity and Substitution Patterns in Models of the Simultaneous Choice of Activity Timing and Duration*, 45th Congress of the European Regional Science Association, *Land use and water management in a sustainable network society*, Amsterdam, The Netherlands, August 23–27, 2005.
25. Fabian Bastin, Cinzia Cirillo, and Philippe L. Toint, *A stochastic programming framework to reduce computational time in mixed logit models*. Computational Management Science Conference and Workshop on Computational Econometrics and Statistics, Neuchâtel, Switzerland, April 2-5, 2004.

Without communication

1. Recent Advances on Optimization, Cerfacs, Toulouse, France, July 24–26, 2013.
2. Mathematical Finance Days 2012, Montréal, QC, Canada, May 3 and 4, 2012.
3. INFORMS Simulation Society Research Workshop, Montreal, QC, Canada, July 18–20, 2011.
4. SIAM Conference on Optimization, Darmstadt, Germany, May 16–19, 2011.
5. CIRRELT Conference and Members Assembly, Université Laval, Quebec, QC, Canada, April 26–27, 2010.
6. BioKrEn-OPTIWE TASK FORCE : Workshop 1, "Development of a systematic methodology for integration of biorefinery technologies into existing Kraft mill process : Current profile, emerging techniques and gaps to be filled", CanmetENERGY-Varennes, Varennes, QC, Canada, April 26, 2010.
7. Transportation Research Board Annual Meeting, Washington, D.C., USA, January 11–15, 2009. TRB 2009
8. INFORMS Revenue Management and Pricing Section Conference, 8th Annual Conference, Université de Montréal, Montreal, Canada, June 18–20, 2008.
9. CIRRELT Conference and Members Assembly, Université Laval, Quebec, QC, Canada, May 14–15, 2008.
10. Sparse Days Meeting, CERFACS, Toulouse, France, June 15–16, 2006. Chairman of the posters session.
11. Second International Workshop on Combinatorial Scientific Computing, CERFACS, Toulouse, France, June 21–23, 2005.
12. Mythes et Réalités de l’Open Source, Cetic, Charleroi, Belgium, May 13, 2004.

13. IAP Meeting, FUNDP - University of Namur, Namur, Belgium, September 12, 2003.
14. Linux@work, Brussels, Belgium, June 5, 2002.
15. Systèmes d'information et logiciels libres - Le point sur la question, Rencontres Infopôle, University of Namur, Namur, Belgium, December 19, 2001.
16. Protection des Droits de Propriété Intellectuelle sur les Oeuvres Numériques, Rencontres Infopôle, University of Namur, Namur, Belgium, November 14, 2001.
17. 9th International Conference on Stochastic Programming, Berlin, Germany, August 25–31, 2001.
18. Les enquêtes : une fenêtre sur la mobilité et l'activité des personnes, Journée d'étude SSTC, Brussels, Belgium, March 30, 2000.
19. Le transport : l'environnement et la sécurité, Journée d'étude SSTC, Brussels, Belgium, March 2, 2000.
20. ICTCT Workshop on speed control (principles, methods, measures), Kaiserslautern, Germany, October 28–29, 1999.
21. Vers une mobilité durable : De la problématique à la recherche de solutions, Journée d'étude SSTC, Brussels, Belgium, September 30, 1999.

Affiliations

1. Regular member of CIRRELT (Centre Interuniversitaire de Recherche sur les Réseaux d'Entreprise, la Logistique et le Transport) since April 2008.
2. Associate member of NAXYS (Namur Center for Complex Systems), since October 2010.
3. Member of CORS (Canadian Operational Research Society), since February 2009. Treasurer of CORS Montreal Section since 2007.
4. Member of INFORMS Society, 2008–2012.
5. Member of the Mathematical Optimization Society (formerly Mathematical Programming Society), from November 2007 to December 2008, and since November 2009.
6. Member of IATBR (International Association for Travel Behaviour Research), from 2003 to 2006, and since 2010.
7. Member of SMAI (Société de Mathématiques Appliquées & Industrielles), 2006.

Languages

French Mother language.

English Good knowledge.

Dutch School knowledge. Basic knowledge certificate in reading understanding (Belgium, 1995).

Study stays

1. Collaboration with Sujin Kim, National University of Singapore, Department of Industrial & Systems Engineering, May 23–June 4, 2010.
2. Collaboration with Bruno Tuffin on the project "Monte Carlo and Quasi-Monte Carlo for rare event simulation", INRIA Rennes-Bretagne Atlantique, France, October 20–30, 2008.
3. Collaboration with Cinzia Cirillo, University of Maryland, Department of Civil & Environmental Engineering, April 22 to May 1, 2008.

4. Collaboration with Roberta Siciliano unit on the project “Computational Issues in Discrete Choice Modelling”, Department of Mathematics and Statistics, University of Naples Federico II, Italy, June 7 to July 6, 2004.

Softwares

- AMLET (Another Mixed Logit Estimation Tool), <http://amlet.slashbin.net>.

Other scientific activities

- Referee for 4OR, Applied Numerical Mathematics, Applied Soft Computing, Computational Management Science, Computational Optimization and Applications, European Journal of Operational Research, IEEE Transactions on Image Processing, Infor, Information Sciences, International Journal of Operational Research, Journal of Choice Modeling, Journal of Global Optimization, Journal of Industrial and Management Optimization, Mathematical Programming, Operations Research, Optimization Methods and Software, Transportation, Transportation Research Part B, Transportmetrica, SIAM.
- External evaluator for NSERC (1 project in 2009, 2010, and 2011, 2 projects in 2013).
- External evaluator for the funding program “Joint Applied Research Projects” (6 projects in 2011, 1 in 2013) and the program “Exploratory Research Projects” (1 project in 2011, 5 projects in 2012) of the Executive Agency for Higher Education, Research, Development and Innovation Funding of Romania.

Other trainings

1995 Classical guitare diploma, Musical Academy of Bastogne, Belgium.

1990 Music theory diploma, Musical Academy of Bastogne, Belgium.

Distinctions

- Cited in *Marquis Who's Who in Science and Engineering 2008–209, 2011–2012*.
- Cited in *Marquis Who's Who in the World 2010*.

Sport

Shooting

- 2006 : FFTir (French Shooting Federation) animator.
- Results (free rifle prone (50 meters)) :
 - 2010 : 1st Expert rifle any sights, Ontario Indoor Championships.
 - 1st Midi-Pyrénées League Championship 2005, 2nd 2006 (classed as foreigner).
 - 3rd French-speaking Region Championship 2002, 5th of Belgian Championship 2003 ;
 - Member of the Belgian team in 2002 (international elite). National elite in 2001, 2003, 2004 ;
 - Member of the Belgian national junior team in 1996 and 1997 ;
 - Belgium junior vice champion in 1994 and 1997.

Associative life

1999–2004 Namur Linux Users Group, Namur, Belgium. Presidence from 1999 to 2001. Honor member of NamurLUG ASBL from 2007.