

Christophe Bontemps

Econometrics, Data Management and Computational Science

Toulouse School of Economics (GREMAQ-INRA),
French National Institute for Agricultural Research (INRA¹)

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Biographical information

49 years old

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Position

January 2008 – present: Senior research assistant in econometrics at the GREMAQ-INRA research group at the Toulouse School of Economics.

January 2011- March 2012: Manager of the [PIG-TSE](#) (*Pôle Informatique Global*), or TSE computing and IT center (9 people)

2001-2008 : Econometrician at the Economic Department of French National Institute for Agricultural Research ([INRA](#)).

1998-2001 : Econometrician and IT manager at the National Institute of Agronomic Research (INRA) at the [LEERNA](#)² research lab at the University of Toulouse.

1997 : Scientific consulting for the MIDIVAL society during 3 month. Working on “Airplanes trajectory forecast” for the French Civil Aviation in Toulouse.

1996-1997 : Associate Researcher at the Global Optimization Laboratory (LOG), CENA-ENAC Toulouse

1996 : Invited fellow at the European University Institute, Firenze Italy (3 month)

1994-1996 : Research assistant at the GREMAQ, University of Social Sciences, Toulouse.

¹ Institut National de la Recherche Agronomique

² Laboratoire d'Economie de l'Environnement, et des Ressources Naturelles, re-named LERNA.

Education

1996-1997 : - **M. S. in Computer Science and Applied Mathematics** at the « Ecole Nationale Supérieure d'Electronique d'Electrotechnique, d'Informatique et d'Hydraulique et des Télécommunications (ENSEEIH) » in Toulouse.

1992-94 : **PhD** in Applied Mathematics at the GREMAQ, University of Social Sciences, Toulouse. **Advisor** Jean-Pierre Florens. **Jury** : Eric Renault (president), Jean-Pierre Florens, Jean-François Richard, Michel Delecroix, Anestis Antoniadis.

Articles in Refereed Journals

2016

« *The Impact of Perceptions in Averting-decision Models: An Application of the Special Regressor Method to Drinking Water Choices* » with Celine Nauges, [American Journal of Agricultural Economics](#) doi: 10.1093/ajae/aav046

2014

« *La productivité de l'agro-alimentaire français de 1996 à 2006* » with Élise Maigné and Vincent Réquillart (2014), in [Economie et Prévision](#).

2013

« *Quality labels and firm survival: some first empirical evidence* » with Zohra Bouamra-Mechemache and Michel Simioni (2012), [European Review of Agricultural Economics](#); doi: 10.1093/erae/jbs034. ERAE 2013 [Editor's choice](#).

2009

« *Carafe ou bouteille ? Le rôle de la qualité de l'environnement dans la décision du consommateur* » with Céline Nauges, (2009) N° 188/2 pp. 61-79 in [Economie et Prévision](#).

2008

« *Encompassing in regression models : Parametric and non-parametric procedures* » with Jean-Pierre Florens and Jean-François Richard, (2008) [Oxford Bulletin of Economics and Statistics](#), (70), pp 751-780. Doi: 10.1111/j.1468-0084.2008.00529.x.

« *Encompassing: Concepts and Implementation* » with Grayham Mizon, (2008) [Oxford Bulletin of Economics and Statistics](#), (70), pp. 721--750. Doi: 10.1111/j.1468-0084.2008.00528.x

« *Semiparametric Hedonic Price Models: Assessing the Effects of Agricultural Nonpoint Source Pollution* » with Michel Simioni and Yves Surry (2008), [Journal of Applied Econometrics](#),(23), pp: 825–842 .

« *Private Labels, National Brands and Food Prices* » with Valérie Orozco & Vincent Réquillart, (2008) [Review of Industrial Organization](#)., Volume 33 (1) , pp.1-22. DOI 10.1007/s11151-008-9176-x

2005 « *Price Effects of Private Labels Development* » with Valérie Orozco, Vincent Réquillart & Audrey Trévisiol, (2005) Vol. 3: No. 1, [Journal of Agricultural & Food Industrial Organization](#).

2003 « *Estimation de la demande en eau d'irrigation sous incertitude* » with S. Couture and P. Favard, (2003) in "Economie rurale", N° 276 pp 17-24.

2002 « *Irrigation water demand for the decision maker* » with S. Couture (2002) in "Environment and Development Economics" Volume 7, N° 4, pp 643-657.

2001 « *Dynamics and uncertainty in irrigation management* » with S. Couture (2001) in "Economie et Sociologie Rurales" N° 55-56

Books & translations

2015 : Translation in French of "A cartoon introduction to Climate Change" by Yoram Bauman & Grady Klein ("Le changement climatique en BD", Eyrolles)
→ With a foreword by Jean Tirole.



2014 : Translation in French of "A cartoon introduction to economics : Macroeconomics" by Yoram Bauman & Grady Klein ("L'économie en BD : La macro économie", Eyrolles)
→ With a foreword by Jean Tirole.



2012 : Translation in French of "A cartoon introduction to economics" by Yoram Bauman & Grady Klein ("L'économie en BD", Eyrolles)
→ more than 4000 copies sold (end 2015).



2008 "Stata par la pratique : Statistiques, graphiques et éléments de programmation", avec Eric Cahuzac (2008), StataPress Edition, 254 pages.
→ more than 1300 copies sold (end 2015).



Articles in non-referee journal & book chapters

2010 : "To drink or not to drink (tap water) ?" with Céline Nauges in **INRA Sciences Sociales** 2010/2.

2005 « *Is the irrigation water demand really convex ?* » with Stéphane Couture and Pascal Favard, (2005) in the book edited by Phoebe Koundouri "Econometrics Informing Natural Resources Management", **Edward-Elgar Publishers**.

2003 « *Congruence and Encompassing* » with Grayham Mizon, (2003) In Stigum, B. (ed.), *Econometrics and the Philosophy of Economics: Theory-Data Confrontations in Economics*. Princeton: **Princeton University Press**.

1998 « *Pollutions diffuses et ressources renouvelables* » with J.P. Amigues and A. Thomas (1998). in INRA-ESR "Gestion des pollutions, protection du consommateur et compétitivité" 175p. 1998/10, pp49-80.

Working papers and unpublished material

“*The impact of perceptions in averting-decision models: An application of the special regressor method to drinking water choices*” with [Céline Nauges](#). TSE working paper [n°14-357](#). → Published AJAE 2015

“*Nonparametric detection of patterns of technological change: An application to food industry*”³ with C. Nauges, V. Réquillart et M. Simioni. TSE working paper [n° 12-275](#).

This paper has also circulated under slightly different versions :

Food Safety Regulation and Firm Productivity: Evidence from the French Food Industry” (2012)

“Technical Change vs Efficiency Change: How do Food Industries Evolve Over Time?” (2010).

«*Productivity Growth, Technical Efficiency, and Resource Allocation in the French Food Industry*”(2013) with Michel Simioni.

« *Les gains de productivité de l'agro-alimentaire Français de 1996 à 2006* » (2010) avec Elise Maigné et Vincent Réquillart (ANR-08-BLAN-0106-01) → Published Economie et prévision 2014

« *Nonparametric vs parametric binary choice models: An empirical investigation*» (2009) with [Jeffrey S. Racine](#) and M. Simioni. TSE working paper [n°09-126](#).

“*To drink or not to drink (tap water)? The impact of environmental quality on consumer's choices*” (2006) with Céline Nauges

“*Allocation optimale de l'eau d'irrigation au cours d'une saison : approche par la méthode de Monte-Carlo*” with Stéphane Couture and J. P. Terreaux, Mimeo (2001)

«*Nonparametric Integration of Regression Functions* » with Arnaud Raynaud. Mimeo (2000)

« *Une méthode d'estimation de la fonction de demande en eau d'irrigation* » with Stéphane Couture. Mimeo (1999).

« *Utilisation d'un modèle agro-économique pour la gestion de l'irrigation dans un contexte de rareté*» with Stéphane Couture. Mimeo (1999).

« *Principes mathématiques et utilisation des algorithmes génétiques* », C. Bontemps, Mimeo, (2000)

Seminars and conferences

- *Agricultural & Applied Economics Association annual meeting (San Francisco, USA, 2015)*
- *XIII European Workshop on Efficiency and Productivity Analysis (Helsinki, Finland, 2013)*

- *Invited conference at the Southwestern University of Finance and Economics, (Chengdu, China, 2012),*
- *European Association of Environment and Resource Economist (EAERE, Prague, 2012),*
- *XII European Workshop on Efficiency and Productivity Analysis (Verona, Italy, 2011),*
- *Agricultural & Applied Economics Association meeting 2009 AAEA & ACCI Joint Annual Meeting, (Milwaukee, USA, 2009),*
- *Third World Congress of Environmental and Resources Economists (Kyoto, Japan 2006),*
- *Annual meeting of EAAE congress (Copenhagen, Denmark, 2006),*
- *Agricultural & Applied Economics Association (Providence USA, 2005)*
- *European Association of Environmental and Resource Economists (Budapest, Hungary, 2004).*
- *Agricultural & Applied Economics Association (Chicago, USA, 2001)*
- *7th world congress Congress of the Econometric Societ (Tokyo, Japan, 1995)*
- *Econometric Society: European Meeting, (Uppsala, Sweden, 1993)*

Referee Activities

Referee for :

Resource and Energy Economics (REE)
European Journal of Operational Research (EJOR),
European Review of Agricultural Economics (ERAE),
Journal of Applied Econometrics (JAE)
Environment and Development Economics (EDE),
Oxford Bulletin of Economics and Statistics (OxBul),
International Economic Review (IER),
Journal of Agricultural and Applied Economics (JAAE),
Agricultural Economics (AE),
Journal of Agricultural & Food Industrial Organization (JAFIO),
Cahier d'Economie et Sociologies Rurales,
Economie Rurale (Ecoru).

Member of the AERES (2011) - Evaluation of two French research center.

Conference Organisation

5èmes rencontres R, Toulouse, France June 2016.

5th World Conference of the Spatial Econometrics Association,,Toulouse, France July 2011.

Teaching

Most of the teaching are in English, all are, at least, at the Master2 level.

2015: "Data Visualization for Data Science », in the ENSAI Big Data Master (ENSAI, Rennes - 9 hours).

2013-16: "Principes économiques du Revenue management" in the ENSAI master 2 course on Revenue management, (ENSAI, Rennes - 15 hours).

2013-15: "Revenue management" in the TSE master 2 course Energy, Markets and Organisations" (EMO). (Toulouse School of Economics, 6 hours).

- 2003, 2005, 2006, 2009, 2010, 2012, 2013:** « Demand in air transportation, Traffic Forecast and Yield Management » Civil Chinese Engineers at the Civil Aviation University of China (Tianjin, *China* - 15hours)
- 2008,2010:** « Demand in air transportation, Traffic Forecast and Yield Management » in the Aviation MBA ENAC and LUISS Business school ⁴ (Rome and Toulouse) (12+12 hours).
- 2006-2010:** « Price discrimination & Revenue management » , IENAC engineers, Ecole Nationale de L'Aviation Civile ⁵ Toulouse (12h)
- « Yield Management » in the Master of Aeronautical Operations and Air Traffic management at ENAC (3 hours).
- « Yield Management » (in French) at the Ecole Nationale des Ponts et Chaussées, (Paris). Module "marché des déplacements interrégionaux et internationaux de voyageurs", (3 hours).
- 2009:** « Approche Robuste en Econométrie », (in French) with M. Simioni, at the Ecole Nationale de la Statistique et l'Analyse de l'Information, (Rennes) for the INSEE engineers (12h).
- 2008:** « Demand in air transportation, Traffic Forecast and Yield Management » in the Aviation MBA at the LUISS Business School (*Rome, Italy*) ⁵ (12+12 hours).
- 2006** « Pricing and Yield Management » (in French) at the ENPC (Paris)(module "marché des déplacements interrégionaux et internationaux de voyageurs") (3 hours).
- 2005** « Pricing and Yield Management » (in French) at the ENPC (Paris)(module "marché des déplacements interrégionaux et internationaux de voyageurs") (3 hours).
- 2004** « La demande de transport et les prévisions » at the ENPC (module "marché des déplacements interrégionaux et internationaux de voyageurs") (3 hours).
- 2000** « *Optimisation globale versus optimisation locale* » (in French) , Séminaire destiné aux doctorants et chercheurs de l'unité ESR Toulouse (2x3 hours) en 2000.
- 1999** « *Initiation à la Statistique non paramétrique* » (in French) , Séminaire destiné aux doctorants et chercheurs de l'unité ESR Toulouse (3 hours) en 1999.

1996-1997

« *Econométrie* » ; Cours dispensé aux ingénieurs 2^{ème} année de l'ENAC⁵ (30 hours) en 1996 et 1997.

« *Analyse de données et statistique* »; Cours dispensé aux Ingénieurs du corps de l'Aviation Civile (IAC) à l'ENAC (15 hours) en 1996 et 1997.

« *Probabilité et Statistique* » ; Cours dispensé aux 2^{èmes} années du DEUG MASS à l'Université des Sciences Sociales de Toulouse. (15h cours + 24h TD) en 1996.

⁴ ENAC : Ecole Nationale de L'Aviation Civile

⁵ ENAC : Ecole Nationale de L'Aviation Civile

1993-1996 (in French)

« *Topologie, Mesure, Intégration* » ; TD de Maîtrise de Sciences Economiques à l'Université des Sciences Sociales de Toulouse. (32h) en 1993, 1994, 1995 et 1996.

« *Equations différentielles et Optimisation* » ; TD de Maîtrise de Sciences Economiques à l'Université des Sciences Sociales de Toulouse. (32h) en 1993, 1994 et 1995.

Workshops participation

" Theory and Practice of Efficiency and Productivity Measurement", June 2013. PhD Workshop with S. Kumbhakar and C. Parmeter. University of Stavanger, Norway.

“Spatial Econometrics Workshop” March 2010, (R. Bivand, J Lesage, C. Thomas) Toulouse.

« *Production Frontiers* », January 2009. Course (W. Greene) organized by the CEMMAP at UCL (London).

“Nonparametric econometrics”, June 2008, Course (J. Racine) organized by SLU at Uppsala (Sweden).

« *Discrete choice analysis* », January 2005. Course (W. Greene) organized by the CEMMAP at UCL (London).

« *Semiparametric Analysis of Qualitative Response models* », April-December 2002, workshop co-organized with Pascal Lavergne and Michel Simioni.

« *Treatment effects* » Janvier - Mai 2001, cours de DEEQA de l'école doctorale en science économique de Toulouse.

« *Decision support tools and models for agricultural resource management* » 12-22 octobre 1999 (Ankara, Turquie). Organisé par le département d'économie du METU⁶, CIHEAM - IAMM⁷ et Commission Européenne (DG1)

Others

Sauveteur secouriste du travail (SST) at the INRA since 1999

Quality manager of my lab at INRA since 1999

Other others...(in French)

Vice champion de France du 4x200m, avec le S.A. Condom en 1987 et 1988
Recordman des Pyrénées du 4x200m (Athlétisme) depuis 1988 (1'24''99)

⁶ METU : Middle East Technical University, Ankara

⁷ IAMM : Institut Agronomique Méditerranéen de Montpellier