Curriculum Vitae

Christian BONTEMPS

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Current Position: Professor of Economics, Toulouse School of Economics and Ecole Nationale Aviation Civile. Specialized in Econometrics and structural microeconometrics.

Publications:

- A Structural model of Airline Network Formation (2023), with K. Remmy and C. Gualdani, revise and resubmit at *Econometrica*.
- Functional Ecological Inference (2023), with JP Florens and N. Meddahi, 2nd revision at *Journal of Econometrics*.
- The Effects of LCC Subsidies on the Tourism Industry (2024), with G. Martini and F. Porta. *Submitted at IJIO*
- Reducing transaction taxes on housing in highly regulated economies (2023), with Frederic Cherbonnier and Thierry Magnac. *Submitted at International Economic Review*
- Ex-post evaluation of the American Airlines-US Airways merger: a structural approach, with K. Remmy and J. Wei, *Journal of Transport Economics and Policy*, 2022, 56, p. 129-155.
- Entry Games for the Airline Industry, with R. Sampaio, in *Air Transport and Regional Development Methodologies*, 2021, Chapter 12, p. 226-248, edited by Graham, Adler, Betancor, Bilotkach, Calderon, Martini, Niemeier and Antunes, Routledge.
- A Geometric Approach to Inference in Set identified Entry Games, with R. Kumar, *Journal of Econometrics*, 2020, Vol. 218, p. 373-389.

- Moment-based tests under Parameter Uncertainty, *Review of Economics and Statistics*, 2019, Vol. 101, p. 146-159.

- Set Identification, Moment Restrictions and Inference, with T. Magnac, *Annual Review of Economics*, 2017, Vol. 9, p. 103-129.

- Identification in Econometrics, Theory and Applications, with E. Tamer, *Econometrics Journal*, 2013, vol 16, p. Si-Sii

- Testing Distributional Assumptions: a GMM approach, with N. Meddahi, *Journal of Applied Econometrics*, 2012, vol 27, p. 978-1012.

- Set identified linear models, with T. Magnac and E. Maurin, *Econometrica*, 2012, vol 80, p. 1129-1155

- Testing Normality: a GMM approach, with N. Meddahi, *Journal of Econometrics*, 2005, vol 124, 1, p 149-186.

- Les modèles de recherche d'emploi, *La revue Economique*, 2004, vol 55, p. 1-20.

- Equilibrium Search with Continuous Productivity Dispersion: Theory and Non-Parametric Estimation, with J-M Robin et G.J. van den Berg, *International Economic Review*, 2000, vol 41, 2, p. 1039-1074.

- An empirical equilibrium job search model with search on the job and heterogeneous workers and firms, with J-M Robin et G.J. van den Berg, *International Economic Review*, 1999, vol 40, 4, p. 305-358.

Working papers (drafts available upon request):

- Linear Models with Interval-censored variables (2024), with T. Magnac and D. Pacini.

- Smoothed Inference for Moment Inequality Models (2024), with M. Lesellier and R. Kumar.

- Identification and Estimation of Incentive Contracts under Asymmetric Information (2023), with D. Martimort and Max Lesellier.

- Optimal Moment-based tests for distributional assumptions (2024), with J.M. Dufour and N. Meddahi.

Work in progress

- Market structure and Southwest entry (2023), with M. Bontemps, R. Sampaio et Miguel Urdanoz

- An ex-post evaluation of the wave of mergers in the US domestic market (2023), avec Kevin Remmy et Isabel Pham.
- Modeling and estimating the airport program: A two-sided platform approach (2022), avec Shangrong Chen et Estelle Malavolti
- Identification of Probability Measure from Partial Observations, with J.-P. Florens and N. Meddahi.
- Testing cost frontier models.
- Near optimal moment inequality testing procedures, with R. Kumar.
- Horizontal differentiation in the US domestic market, with M. Bontemps and R. Sampaio.
- Moment-based Tests of Multivariate Distributions, with N. Meddahi

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PhD students (main advisor):

Raquel Sampaio, TSE, defense 2008, currently Professor at Universidade Federal do Rio Grande do Norte (Brazil).

Rohit Kumar, TSE, defense 2018, currently Assistant Professor at IIT Delhi.

Kevin Remmy, TSE, defense 2021, currently postdoc at University of Mannheim.

Max Lesellier TSE, defense 2023, currently Assistant Professor at University of Montreal.

Other Professional Activities:

March 2024 Associate Guest Editor for Journal of Air Transport Mangement, "Selected papers from the ATRS World Conference, Kobe (2023)", with Anne Lange and Yulai Wan.

May 2023 Coorganisation of "Econometrics and Models of Strategic Interaction" (with T. Li, C. Gualdani et A. Chesher), Nashville (TN).

March 2023 Organisation of the Symposium on Aviation research (SOAR), Toulouse, with E. Malavolti (TSE).

March 2023 Associate Guest Editor for Transportation Research, A, "VSI on Air Transportation", with Yulai Wan.

Since August 2022 , Vice President of the Air Transport Research Society in charge of the publications.

June 2021 Organisation of the conference "Econometrics of Games, Matching and Networks", Toulouse, with A. Chesher (UCL- CEMMAP) and C. Gualdani (TSE).

2019-2022 , VP Education of the Executive committee of ATRS (in charge of the PhD workshop).

Fall 2019 Associate Guest Editor for Journal of Transport, Economic and Policy, "Selected papers from the ATRS World Conference, Amsterdam (2019)".

Fall 2018 Associate Guest Editor for Transportation Research, A, "Selected papers from the ATRS World Conference, Seoul (2018)".

Fall 2017 Associate Guest Editor for Transportation Research, A, "Selected papers from the ATRS World Conference, Antwerp (2017)".

June 2016 Organisation of the conference "Econometrics in Toulouse".

2015 - 2017 Member of the scientific committee of the International Association of Applied Econometrics.

2008-2017 Member of the scientific committee of the Econometric Society European Meeting (ESEM).

2014-2017 Member of the scientific committee of the AFSE conference (Association francaise de Sciences Economiques).

2013 Chair of the 5th French Econometrics Conference (Toulouse, nov 2013). Organization of a Worskhop in Partial Identification (dec 2013).

2013 External member of the committee for the Applied Econometrics Chair at the European University Institute.

2011-2012 Invited coeditor for the Special Issue in The Econometrics Journal (with Elie Tamer) related to the 21st EC^2 conference on Identification in Econometrics.

2007-2011 Organization of the Toulouse Econometrics seminar.

dec 2010 Local Organization of the 21st EC^2 conference (Topic is "Identification in Econometrics: Theory and Applications).

2005-2007 Organization of the Toulouse Econometrics seminar (with T. Magnac and P. Dubois).

Referee for *Econometrica, Review of Economic Studies, Quantitative Economics, Journal of Econometrics, Journal of Applied Econometrics, Econometric Theory, Econometrics Journal, Econometric Reviews, Transportation Research part A and E, Journal of Business and Economic Statistics, Oxford Bulletin of Economics, Journal of Financial Econometrics, Studies in Nonlinear Dynamics & Econometrics, International Journal of Industrial Organisation, Journal of Air Transport Management, The Economic Journal.*

Presentation to International Conferences:

- Econometric Society European Meeting (Barcelona, August 2023), presentation of "Entry Games with discrete heterogeneity".
- AFSE annual meeting (Paris, June 2023), presentation of "A Structural model of Airline Network Formation".
- Econometrics and Models of Strategic Interaction (Nashville, May 2023), presentation of "Entry Games with discrete heterogeneity".
- ATRS Annual Conference (Antwerp, August 2022), presentation of "A Structural model of Airline Network Formation".
- ATRS Annual Conference (Sydney, remote, August 2021), presentation of "Entry Games with discrete types in the US domestic market".
- World Congress of the Econometric Society (Milan, August 2020), presentation of "A Geometric Approach to Inference in Set identified Entry Games".
- ATRS Annual Conference (Amsterdam, July 2019), presentation of "Entry Games for the Airline Industry".

- International Transport Economic Association (Paris, June 2019), presentation of "A Structural model of Airline Network Formation".
- World Conference on Transportation Research (Mumbai, May 2019), presentation of "Entry Games for the Airline Industry".
- Econometric Study Group Conference (Bristol, July 2018), presentation of "A Geometric Approach to Inference in Set identified Entry Games".
- ATRS Annual Conference (Seoul, July 2018), presentation of "A Structural model of Airline Network Formation".
- International Transport Economic Association (Hong-Kong, June 2018), presentation of "Testing cost frontier models".
- African Meeting of the Econometric Society (Algiers, June 2017), presentation of "A Geometric Approach to Inference in Set identified Entry Games".
- EARIE (Lisbonne, August 2016), presentation of "Identification and Estimation of Incentive Contracts under Asymmetric Information: An Application to the French Water Sector".
- African Meeting of the Econometric Society (Mpumalanga, July 2016), presentation of "Moment based tests for discrete distribution".
- ATRS Annual Conference (Rhodes, June 2016), presentation of "Set identification in Entry Games".
- Conference in the Honor of Jean-Marie Dufour (Montreal, May 2016), presentation of "Measuring the Wealth Elasticity of Risky Assets Demand: Evidence from the Wealth and Assets Survey".
- French Econometrics Conference (Orlï¿½ans, December 2015), presentation of "Moment based tests for discrete distribution".
- International Association for Applied Econometrics Annual Conference (Thessalonique, June 2015), presentation of "Moment-based tests for discrete distributions".
- "Modern econometric tools and applications", (Niznhy Novgorod, Sep. 2014), presentation of "Identification and Estimation of Incentive Contracts under Asymmetric Information: An Application to the French Water Sector".
- ATRS Annual Conference (Bordeaux, July 2014), presentation of "Moment-based tests for frontier models".
- International Association for Applied Econometrics Annual Conference (London, June 2014), ,

- CSIO-IDEI conference (Northwestern, 2014), presentation of "Identification and Estimation of Incentive Contracts under Asymmetric Information: An Application to the French Water Sector".
- European Summer Meeting of the Econometric Society (Gothenburg, 2013), presentation of "Identification and Estimation of Incentive Contracts under Asymmetric Information: An Application to the French Water Sector".
- Financial Econometrics Conference, Toulouse, May 2013, presentation of "Optimal Moment-based tests for distributional assumptions".
- EC^2 conference, Maastricht, december 2012, presentation of "Moment-based tests for discrete distributions".
- European Summer Meeting of the Econometric Society (Malaga, 2012), presentation of "Moment based tests for discrete distributions".
- North American Summer Meeting of the Econometric Society (Evanston, 2012), presentation of "Moment based tests for discrete distributions".
- Conference on Identification and Inference in Microeconometrics, (Nashville, 2012), presentation of "Estimating Optimal Contracts under Delegated Management in the French Water Sector ".
- Financial Econometrics Conference (Toulouse, 2011), presentation of "Moment Based Tests of Multivariate Distributions".
- World congress of the econometric society (Shanghai, 2010), presentation of "Estimating Optimal Contracts under Delegated Management in the French Water Sector ".
- 8th conference on "Industrial Organization and the Food Processing Industry" (Toulouse, 2010), discussion of "The Dynamics of French Food Industries: Productivity, Sunk Costs and Firm Exit" from Jean-Pierre Huiban.
- Financial Econometrics Conference, Toulouse, May 2010, presentation of "Moment based tests for discrete distributions".
- First French Econometrics Conference, Toulouse, Dec 2009, presentation of "Set Identified Linear Models".
- IDEI-CSIO conference, Toulouse, May 2009, presentation of "Set Identified Linear Models".
- EC^2 conference, Structural Microeconometrics, Roma, december 2008, presentation of "Estimating Optimal Contracts under Delegated Management in the French Water Sector ".
- IO Econometrics Worshop, Toulouse, december 2008, presentation of " Estimating Optimal Contracts under Delegated Management in the French Water Sector ".

- Journal of Applied Econometrics Conference (Madrid 2008), discussion of " Multivariate Location-Scale Mixtures of Normals and Mean-Variance-Skewness Portfolio Allocation " from J. Mencia and E. Sentana.

- North American Winter Meeting (New Orleans 2008), presentation of "Set Identified Linear Models".

- EC^2 conference, Econometrics of Financial and Insurance Risks (Faro 2007), presentation of "Moment-based tests for discrete distributions".

- GMM Conference (Montrï¿½al 2007), presentation of "Set Identified Linear Models".

- ESRC Econometric Study Group Annual Conference (Bristol 2007), presentation of de “Set Identified Linear Models”.

- Financial Econometrics Conference (London 2007), discussion of "A comparison of Tests of Mean-Variance Efficiency" from D. Amengual and E. Sentana.

- NSF-NBER Time Series Conference (Montrï¿½al 2006), presentation of "Moment-based tests for discrete distributions".

- Econometric Society European Meeting (Vienne 2006), presentation of "Moment-based tests for discrete distributions".

- Econometrics in Rio Conference on time series, panel data, and quantile regression (Rio 2006) : presentation of “Testing Distributional Assumptions: a GMM approach”.

- Econometric Society Australian Meeting (Alice Springs 2006), presentation of de "Moment-based tests for discrete distributions".

- International Conference on Time Series Econometrics, Finance and Risk Perth (Perth 2006), presentation of "Moment-based tests for discrete distributions".

- Conference on Econometrics of Auctions (Toulouse 2006) : discussant of “Bilateral Bargaining as a Double Auction: The Case of Firms and Workers in Denmark” (B. Brendstrup, J.M. Kuhn et H.J. Paarsch).

- EC^2 conference, Econometrics of Financial and Insurance Risks (Istanbul 2005) : presentation of “Testing Distributional Assumptions: a GMM approach”.

- Time Series Conference (Montrï¿½al 2005) : discussant of “Nonparametric Exploration of Continuous Time Volatility Models with Leverage and Jumps”, from T.G. Andersen, T. Bollerslev and D. Dobrev.

Participation to seminars:

- 2024: KU Leuven, (planned) Beihang University, University of Vienna, Copenhagen Business School.
- 2023: University of Surrey.
- 2022: Queen Mary University, University of Bari.
- 2021: University of Bergamo, Toulouse School of Economics, NYU Abu Dhabi, Sciences Po Paris.
- 2020: University College of London.
- 2019: Newcastle University, University of Luxemburg, Toulouse School of Economics.
- 2017: PennState, North Carolina State University.
- 2016: Toulouse, VanderBilt.
- 2015: Tinbergen institute (Amsterdam).
- 2014: London School of Economics, Queen Mary University (London), Montreal Econometrics seminar.
- 2013: Yale University, Université de Grenoble, European University Institute (Florence).
- 2012: UC San Diego, Caltech University, New Economic School (Moscow).
- 2011: Université de Cergy, X-CREST-LEI, CEMFI Madrid.
- 2010: CREST (Paris).
- 2009: University of Toulouse, Northwestern University, Kellogg School of Management.
- 2008: Yale University, New York University.
- 2007: University of Mannheim, University of Alicante.

Former Positions:

sep 2005 - aug 2013: Professor of Economics at the University of Toulouse.

jan 1998 - aug 2005: In charge of economic studies at the R & D Entity of the French Air Navigation Service Provider (not an academic position).

sep 1994 - jun 1998 PhD at University Paris Pantheon-Sorbonne under the supervision of J-M. Robin

Grants :

2011-2016 French National Research Agency (ANR) for "Partial Identification of Economic Structural Models".

2011-2014 French National Research Agency (ANR), France-Québec program for the task "Distributional tests for noisy data".

2005-2009 French National Research Agency (ANR) for "Distributional tests in Time Series".

Visits:

- Visiting Professor University of Bari (feb 2024, nov 2022).
- Visiting Professor University of Bergamo (nov 2021)
- Visiting Professor New York University Abu Dhabi (Fall 2017, 2018, 2019).
- Penn State University (April 2017).
- VanderBilt University (Nashville, November 2016)
- CIRANO (Montréal, November 2015)
- McGill University (Montréal, april and October 2014)
- Yale University (November 2013),
- UC San Diego (Spring 2012)
- Caltech (May 2012)
- CEMFI Madrid (October 2011)
- Université de Montréal (September 2011)
- Northwestern University (April 2009)
- Yale University (April 2008)

Courses :

2023-2024 :

Empirical Industrial Organisation, M2, TSE.
Set Identification and Moment inequality models, 2nd year PhD, MRes, TSE.
Econometrics, PhD, Univ. of Bari.

2022-2023 :

Empirical Industrial Organisation, PhD, Univ. of Bergamo.
Empirical Industrial Organisation, M2, TSE.

2021-2022 :

Empirical Industrial Organisation, PhD, Univ. of Bergamo.
Empirical Industrial Organisation, M2, TSE.
Set Identification and Moment inequality models, 2nd year PhD, MRes, TSE.

2020-2021 :

Advanced Econometrics, Univ. of Bergamo.
Empirical Industrial Organisation, M2.
Air Transport Economics, M2.
Introduction to Set Identification, 1st year PhD.

2019-2020 :

Introduction to Econometrics, undergrad.
Empirical Industrial Organisation, M2.
Air Transport Economics, M2.

2018-2019 :

Introduction to Econometrics, undergrad.
Empirical Industrial Organisation, M2.
Air Transport Economics, M2.
Partial Identification, Doctoral Program.

2017-2018 :

Introduction to Econometrics, undergrad.

Empirical Industrial Organisation, M2.

Air Transport Economics, M2.

Introduction to Partial Identification, M2.

2016-2017 :

Empirical Industrial Organisation, M2.

Forecasting, M2.

2015-2016 :

Partial Identification, weak identification, doctoral program TSE.

Forecasting, M2.

2013-2015 :

Forecasting, M2.

2012-2013 :

Partial Identification, doctoral program.

Introduction to Econometrics, M1.

Time Series, Master Finance, IAE.

Forecasting, M2 Saigon.

2007-2011 :

Econometrics II (time series), 2nd mandatory econometrics course of the doctoral program, TSE.

Time Series, M1.

Financial Econometrics, Master Finance, IAE.

Applied Econometrics (M2).