

Guillaume Chevillon

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CURRENT POSITION: ESSEC Business School, Professor, Economics, Analytics & Statistics

RESEARCH INTERESTS: Econometrics, Empirical Macroeconomics & Forecasting

EDUCATION

- 2004 D.Phil. (PhD) in Economics, **University of Oxford**
Thesis: Multi-Step Estimation for Forecasting Economic Processes, advisor: D. F. Hendry
- 2000 M.Phil. in Economics, **University of Oxford.**
- 1998 M.Sc. in Executive Engineering (Diplôme d'Ingénieur), **Ecole des Mines de Paris** (ParisTech)

PAST PROFESSIONAL POSITIONS

FULL-TIME ACADEMIC APPOINTMENTS

- Since 2015 **ESSEC Business School, Cergy-Pontoise,**
Professor
Academic Director, ESSEC-CentraleSupélec Master in Data Sciences & Business Analytics
- 2010 – 2015 Associate Professor
- 2006 – 2009 Assistant Professor
- 2008-2016 **CREST-INSEE (now CREST), Paris, Macroeconomics Laboratory,**
Associate Researcher
- 2003 – 2006 **Institut d'Etudes Politiques (SciencesPo), Paris,**
Research Fellow (Economics) at OFCE

OTHER APPOINTMENTS

- 2012 – 2013 **Economics Department, New York University**
Visiting Scholar (9 months)
- Fall 2012 **Money and Macro Function, Federal Reserve Bank of New York**
Visiting Scholar (3 months)
- Fall 2011 **Economics Department, University of Oxford**
Visiting Professor (half a term – Statistics for MPhil in Economics)
- 2007 – 2010 **Economics Department, Brown University**
Visiting Scholar (regular stays several times a year)
- 2000 – 2002 **Economics Department, University of Oxford**
Research Assistant for Prof D. F. Hendry.

PEDAGOGY

Graduate

Forecasting & Predictive Analytics (Oxford 2002, U Orléans 2008, ESSEC since 2017)
Time Series (ESSEC & U Cergy-Pontoise, since 2006; Sciences-Po, 2004-6; U Paris-Dauphine, 2002-4)
Econometrics (ESSEC 2006-11, HEC 2005)
Financial Econometrics (ESSEC 2007-15)
Statistics (Oxford, 2011; ESSEC, 2012)
Contemporary Economic Issues (ESSEC, 2016, 2017)

Undergraduate

Business Statistics & Analytics (ESSEC since 2006 - convenor; Oxford, 1998-2002)
International Macroeconomics (HEC, 2005)

Executive

Statistics and Forecasting (ESSEC 2008-2012; ENA, 2006)

ACADEMIC PUBLICATIONS

- *Robust inference in structural VARs with long-run restrictions*, with S. Mavroeidis (Oxford) and Z. Zhan (Kennesaw). **Econometric Theory**, forthcoming.
- *Perpetual Learning and Apparent Long Memory*, with Sophocles Mavroeidis, **Journal of Economic Dynamics & Control** (2018), 90, pp. 343-65.
- *Generating Univariate Fractional Integration within a Large VAR(1)*, with Alain Hecq and Sébastien Laurent, **Journal of Econometrics** (2018), 204(1), pp. 54-65.
- *Learning can generate Long Memory*, with Sophocles Mavroeidis, **Journal of Econometrics** (2017), 198(1), pp. 1-9.
- *Robust Cointegration Testing in the Presence of Weak Trends, with an Application to the Human Origin of Global Warming*, **Econometric Reviews** (2017), 36(5), pp. 514-45
- *Multistep Forecasting in the Presence of Location Shifts*, **International Journal of Forecasting** (2016), 32(1) pp. 121-37
- *Multi-Step Forecast Error Correction: a comment on "Evaluating Predictive Densities of U.S. Output Growth and Inflation in a Large Macroeconomic Data Set"*, **International Journal of Forecasting** (2014), 30(3) pp. 683-7.
- *Inference in Models with Adaptive Learning*, with M. Massmann and S. Mavroeidis. **Journal of Monetary Economics** (2010), 57(3), pp 341-51.
- *Physical Market Determinants of the Price of Crude Oil and the Market Premium*, with C. Riffart; **Energy Economics** (2009), 31(4), 537-49.
- *Multi-Step Forecasting in Emerging Economies: An Investigation of the South African GDP*, **International Journal of Forecasting** (2009); 25(3), 602-28.
- *Direct Multi-Step Estimation and Forecasting*, **Journal of Economic Surveys** (2007); 21(4) pp 746-85
- *Non-Parametric Direct Multi-Step Estimation for Forecasting Economic Processes*, with D. F. Hendry; **International Journal of Forecasting** (2005), 21(2) pp 201-18

MANUSCRIPTS AND WORK IN PROGRESS

Econometrics & Forecasting

- *Detecting and Forecasting Bubbles in a Near-Explosive Random Coefficient Model*, with Anurag Banerjee (Durham) and Marie Kratz (Essec). **Reject&R Econometrics Journal**
- *Robustness of Multistep Forecasts and Predictive Regressions at Intermediate and Long Horizons*. **Reject&R Econometric Theory**.

Macroeconomics & Finance

- *The Shadow of a Doubt: the dynamic impact of expectational uncertainty*, with Sophocles Mavroeidis, (Oxford).
- *Exuberance: an empirical exploration of sentiments driven buoyancy*, with A. Banerjee (Durham).

PUBLICATIONS IN FRENCH

Articles

- *Strategic Voting in Shareholder Meetings (Stratégies de Vote en Assemblée Générale Face aux Résolutions Externes)*, with P. Charléty and Mouna Messaoudi. **Revue Française de Gestion** (2009), 198-199, pp 277-96.
- *Analyse économétrique et compréhension des erreurs de prévision*, **Revue de l'OFCE**, 95, Oct. 2005
- *Brouillard autour des puits de pétrole*, with C. Riffart, **Lettre de l'OFCE**, 253, Oct. 2004.
- *Les tribulations de la parité euro/dollar*, in collaboration, **Lettre de l'OFCE**, 252, Jun 2004

Reports and Chapters

- *The Impact of the Recent Euro Appreciation on Tourism in France*, with Xavier Timbeau (OFCE). In Artus & Fontagné, "Evolution Récente du commerce extérieur Français", **Rapport du Conseil d'Analyse Economique**, Nov 2006.
- *Perspectives économiques 2005-2009: les voies d'une croissance autonome et soutenue*, with E. Heyer and M. Lemoine, **Rapport pour le Sénat**, 70, 2004.
- *Perspectives économiques 2004-2008 pour un bon équilibre entre croissance et assainissement structurel des finances publiques*, with V. Chauvin and E. Heyer, **Rapport pour le Sénat**, 69, 2003.

OPINION AND MEDIA

Opinions & Analysis

- « *Il semble illusoire de contrôler a priori les outils d'intelligence artificielle car leurs conséquences sont quasi imprévisibles* » **Le Monde - Idées**, 3 mai 2019.
- *Et si on réinitialisait les réseaux sociaux en 2019 ?* **La Libre Belgique**, 28 December 2018.
- *Les employeurs sont à la recherche d'ingénieurs-manageurs*, interview by M. de Amorim, **Le Monde**, 3 November 2018.
- *Et si on réinitialisait les réseaux sociaux ?* **Libération**, 18 September 2018
- *Data Scientist: Think Big!* Short interview by Mireille Weinber, **L'Opinion**, 13 October 2017
- *Managing the robots*. Short interview in **The European**, 19 September 2017
- *Stop à l'anarchie sur les médias sociaux ?* Interview by Thierry Boutte, **La Libre Belgique**, 29 November 2016.
- *Des algorithmes dangereux pour le débat démocratique*, **Libération, Idées** 17 November 2016
- *L'étudiant co-créateur de sa formation*. **Le Monde des Grandes Ecoles** 6 June 2016
- *La nécessité de l'alliance data sciences et business analytics dans la création de valeur*, **Le Journal des Grandes Ecoles**, Janvier 2016,

- *La BCE agit-elle trop tard ?* **La Tribune** 30 January 2015.
- *How econometrics helps us explain Climate Change.* **ESSEC Knowledge** 17 October 2014.
- *Three Big Questions Preoccupying Economists.* **ESSEC Knowledge** 18 September 2014, republished in **Economie Matin** 8 October 2014.
- *Homo-oeconomicus : un comportement modèle ou un modèle de comportement ?* **La Tribune** 22 April 2013, commented in **Atlantico**, 23 April 2013.
- *Tous les électeurs sont-ils égaux ?* **Le Cercle-Les Echos** 7 December 2012.
- *Commerce Extérieur: les Raisons du Déficit*, interview by Sophie Fay. **Le Monde** 12 Décembre 2004.
- *Buts et abus d'une constitution*, **Libération, Rebonds** 24 September 2004.

Radio

- *Sept. 2014 – Sept 2016: Economics expert for "Un jour une question" (weekly "general knowledge" broadcast by Emmanuel Davidenkoff) at France Info. Over 40 chronicles.*
- *May 2015: Participated in "Soft Power" on France Culture as expert on "Data Mining".*

Blogs and talks

- MacroAnalytics.org on *Economics, Analytics & Forecasting*
- MOOC on Complexity, available on Coursera, organized by Edgar Morin and ESSEC. see my contribution [here](#) (youtube) and [follow up here](#).
- ESSEC TV: *Public debt explained in 3 minutes*
- *Creative Destruction Economics -- Leonardo Express Workshop -- Zurich University of the Arts 20/5/2015.*
- *Big Data: Alchemy or Science, January 2016 -- Chaire Edgar Morin ESSEC -- Mise de boîte de la Complexité*
- *Demain: tous algorithmés? roundtable with Axelle Lemaire (Junior Minister for Digital and Innovation), Henri Verdier (Chief data officer of the French State) & Gilles Babinet (French Data Champion to the EU). Semaine de l'innovation publique, théâtre de la Gaîté Lyrique 19/11/16.*

ACADEMIC PARTICIPATION

Awards & Grants

- Research grants, Europlace Institute of Finance, 2007 & 2017, Paris.
- ESSEC Foundation Research White Project 2016-2018
- Eight grants by the Labex MME-DII since 2014, Cergy-Pontoise.
- Six grants by the Research Center at ESSEC since 2007, Cergy-Pontoise.
- Best core papers performance in the MPhil in Economics, 1999, Oxford.

Editorial Activities

Associate Editor, *Revue Economique*

Refereeing

Actualité Economique; Econometrics Journal; Econometric Reviews; Econometric Theory; Energy Economics; International Journal of Forecasting; International Review of Economics and Finance; Journal of Applied Econometrics; Journal of Banking and Finance; Journal of Business and Economic Statistics; Journal of Econometrics; Journal of Economic Dynamics and Control; Journal of Economic Surveys; Journal of Forecasting; Journal of Housing Economics; Journal of the Royal Statistical Society, series B; Journal of Time Series Analysis; Lithuanian Mathematical Journal; Macroeconomic Dynamics; National Science Foundation (US) Grant Proposals; Oeconomia; Oxford Bulletin of Economics and Statistics; Review of Economic Dynamics; Revue Economique; Revue Française d'Economie Politique; Risk; Statistical Methods and Applications.

Academic Participation at ESSEC

Member of the Search Committee for the new Dean & President, ESSEC, 2017.
Elected to the Board of Overseers (Conseil de Surveillance, ESSEC, 2016-2018)
Member of the Scientific Committee (ESSEC, 2014-2016)
Elected to the Faculty Senate (ESSEC, 2013-2016)
Elected to the Evaluation Committee of Faculty Members at ESSEC (2010-12 and 2016).
Various working groups on administrative matters and Faculty recruitment group at ESSEC since 2006.
Member of various Teaching and Pedagogical Committees & Juries at ESSEC (2006-12)
ESSEC Statistics and Econometrics seminar co-organizer (ESSEC, since 2006)

Conference Organization

As co-chair and organizer

2018: Workshop in Time Series, ESSEC,

2017: 19th Oxmetrics User Conference

25th Annual Symposium of the Society for Nonlinear Dynamics and Econometrics, ESSEC & University d'Evry

2016: 8th French Econometrics Conference, ESSEC, November

2015: Advances in Time Series and Forecasting, in the honor of J.-P. Indjehagopian

ESSEC & UCP-THEMA workshop on « Current Trends in Time Series Econometrics »

2014: Banque de France & ESSEC workshop on Expectations & Forecasting, December 10.

As Member of the Scientific Committee

2019: Workshop in Financial Econometrics, LEMNA Nantes

27th Annual Symposium of the Society for Nonlinear Dynamics and Econometrics, Federal Reserve Bank of Dallas

2018: 10th French Econometrics Conference, Paris School of Economics and Paris 1 University.

IEEE Conference on Technology Management, Operations and Decisions, Casablanca Morocco.

2015: Symposium of the Society for Nonlinear Dynamics and Econometrics, BI Norway, March.

Conference Presentations, Discussions & Invited Seminars

2019: IESEG (Lille), CREST (Saclay), Workshop of Empirical Macroeconomics (Bank of Finland), 27th Symposium of the SNDE (Dallas), Multirisk workshop (Florence), Vienna Workshop on High Dimensional Time Series, 2nd QFFE conference Aix-Marseille.

2018: 26th Symposium of the SNDE (Tokyo), AMES (Seoul), JEAM (Paris-Nord University), ETTSA Workshop (Nanterre), QFFE Aix-Marseille, Workshop on Long Memory (Hannover), 10th French Econometrics Conference, CFE (Pisa).

2017: AMES (Kyoto); French Econometrics Conference (CREST); Oxmetrics Users Conference (ESSEC); Université d'Orléans.

2016: 24th symposium of the SNDE (Tuscaloosa, Alabama), Barcelona Summer Forum (Macro & Econometrics), FEMES (Kyoto), Econometrics of identification (Oxford). CFE (Sevilla).

2015: CREST (Paris); Maastricht University; SNDE symposium (Oslo), IAAE Conference (Thessaloniki), Summer Institute of the NBER (Boston), Oxmetrics Users Conference (Aix-Marseille), 4th Symposium on Long Memory (CREATES, Aarhus).

2014: ESSEC, GREQAM (Aix), Leibniz University (Hannover), SNDE Symposium (New York), Durham Business School, ESSEC-CENTRALE Big Data conference (Paris), Summer Institute of the NBER (Cambridge, MA), ESEM (Toulouse), Econometrics Conference, INET (Oxford), Oxmetrics Users Conference (London), CREST, French Econometrics Conference in hon. of C. Gourieroux (Paris), CFE-ERCIM conference (Pisa), EC² Meeting (Barcelona).

2013: Applied Financial Time Series Workshop (HEC Montréal & CIRPEE), Baruch College (CUNY), NYU, Oxford University, NBER/NSF Time Series conference (Washington, DC), Methods in International Finance Network (Namur), 7th International Conference on Computational and Financial Econometrics (London).

2012: CREST (Paris), SNDE Symposium (Istanbul), Durham Business School (UK). SMU-ESSEC Symposium on Financial Econometrics (Singapore), NBER/NSF Time Series Conference (College Station, TX), Federal Reserve Bank of New York, State University of New York (at Albany)

2011: SNDE Symposium (Washington, DC), ESEM (Oslo). Nuffield College (Oxford), IIF/Banque de France Forecasting workshop (Paris)

2010: Paris-1 University, EDF-Wipfor (Paris), Netherlands Econometric Study Group (Leuven), NBER Summer Institute (Cambridge, MA), GREQAM (Aix-Marseille), Erasmus Universiteit (Rotterdam), EC2 (Toulouse)

2009: 1st Macro Forecasting Conference (Rome), CREST-INSEE (Paris), Far Eastern & South Asian Meetings of the ES (Tokyo). Congrès de l'AFSE (Nanterre), 3rd Conference of the Granger Centre (Nottingham), Nordic Econometric Meeting (Lund), Granger Centre for Time Series (Nottingham)

2008: CREST-INSEE (Paris), Netherlands Econometric Study Group (Tilburg), International Symposium on Forecasting (Nice), ES Australasian Meeting (Wellington), ES Far and Middle Eastern Meetings (Singapore), Granger Centre Annual Conference (Nottingham), Learning and Macro Policy (Cambridge), Forecasting under Model Instability workshop (Cambridge), Maastricht Universiteit

2007: ES Far Eastern Meeting (Taipei), Conference in the Honour of David Hendry (Oxford), EEA/ES Meeting (Budapest), T2M (Cergy-Pontoise), Brown University (Providence)

2006: EEA/EES Meeting (Vienna), NBER/NSF Time Series Conference (Montreal), Journée d'Econometrie at EconomiX (Nanterre), LACEA/LAMES Meetings (Mexico City), All China Economics Conference (Hong Kong)

2005: AEA/ES North American Winter Meeting (Philadelphia), ESSEC (Cergy-Pontoise), CREST-INSEE (Paris), NBER/NSF Time Series Conference (Heidelberg & Kaiserslautern)

2003: Irish Economic Association Annual Conference (Limerick), Sciences-Po/OFCE (Paris)

2002: Nuffield College (Oxford)

Other Conference Invitations

EEM/ESF Workshop (Florence 2002), EEM/ESF Workshop (Alghero, 2003), Arne Ryde Symposium (Lund, 2007), Conference in the Honor of Peter Phillips (Singapore, 2008), Stats in the Château (Jouy-en-Josas, 2009), NBER Summer Institute (Watson/West meeting, 2009/10/11/17); Cambridge, MA,

PhD Committee

Julien Penasse (Tilburg University, UCP-THEMA & ESSEC), 2014

Songlin Zheng (Université de Cergy-Pontoise & ESSEC), 2013

PhD Students

Yong June YOON, as PhD advisor (2016-19), then Economist, Bank of Korea

Joonsuk KWON, as PhD advisor (2015-19), then Economist, Bank of Korea

Oana PEIA, as PhD coadvisor (2012-2016), then Assistant Professor - University College of Dublin