

Frederic Lantz's resume

Frédéric Lantz has a DEA in Econometrics and Mathematical economics (1982) and a PhD in Economics (1984) – *Université de Paris X-Nanterre*. He has also received accreditation to supervise research (2004).

He joined IFP School in 1991 after a first experience in research in the field of econometrics and bio-economic modeling at Ifremer, where he was part of the North Sea Working Group for the European Commission. At the School he teaches statistical methods in econometrics and operational research for energy and the environment.

In parallel, his research work has involved him in the development of IFP Energies nouvelle's refining models and the development of methods for quantitative analysis of energy demand and energy pricing. His research and studies are carried out mostly within the framework of collaborative programs with the European Commission (DG-Tren, IPTS) and with the major companies of the energy sector.

At present he is a Professor at IFP School, Supervisor for the Master's program in Environmental Economics, Sustainable Development and Energy as well as Chair Holder in Economic modeling applied to energy and the environment.

His main fields of expertise are energy and environmental modeling. He supervises PhD studies in these areas and has written numerous articles and scientific reports.

He is member of the International Association of Energy Economics (IAEE), the European Association of Operation Research (EURO) and the International Association of Forecasting (ISF).

Papers in peer reviews

Rodriguez-Calaza J., Babusiaux C., Lantz F., 1987, Regresión en presencia de colinealidad, *Revista Española de Economía*, Vol. 4, n°1, pp. 11-41

Catanzano J., Gilly B., Lantz F., 1989, Les entreprises de pêche artisanale: essai de typologie, *Economie Rurale*, Nov.-Déc. 1989, pp. 9-14

Lantz F., Junqueira-Lopes R., 1992, Investment and factor remuneration in small-scale fisheries, *Oceanis*, Vol. 18, Fasc. 4, pp. 401-410

Indjehagopian J.P., F. Lantz, V. Simon, 2000. Dynamics of heating oil market prices in Europe. *Energy Economics* vol. 2 (2).

Proost S., Van Regemorter D., Lantz F., Saint-Antonin V., 2000, Limiting air pollution from transport: economic evaluation of policy options for the European Union, *International Journal of Global Energy Issues*, Vol 14, n1-4, p. 320-330

Bene Ch., Cadren M. Lantz F., 2000, Impact of Cultured Shrimp Industry on Wild Shrimp Fisheries: Analysis of Price Determination Mechanisms and Market Dynamics, *Agricultural Economics*, Vol 23, n°1

Juan S., Lantz F., 2001, La mise en œuvre des techniques de Bootstrap pour la prévision économétrique, application à l'industrie automobile, *Oil & Gas Science and Technology*. Vol. 56 No. 4

Aji S., S. Tavoraro, F. Lantz, A. Faraj, 2003, Apport du bootstrap à la régression PLS : application à la prédiction de la qualité des gazoles, *Oil & Gas Science and Technology*, Vol 58, No. 5

Robinson J., Guillotreau P., Jiménez-Toribio R., Lantz F., Nadzon L., Dorizo J., Gerry C., Marsac F., 2010, Impacts of climate variability on the tuna economy of Seychelles, *Climate Research*, Vol. 43: p. 149-162

Benyoucef A., Lantz F., 2012, "Oil refining planning under petroleum products demand uncertainties: case of Algeria" has been , *Journal of Energy and Power Engineering*, n°6, p 858-868

Hache E., Lantz F., "Oil Price Volatility: An Econometric Analysis of the WTI Market", *Energy Economics* 36 (2013) 334–340

Farnoosh A., Lantz F., Percebois J., (2014). "Electricity generation analyses in an oil-exporting country: Transition to non-fossil fuel based power units in Saudi Arabia". *Energy*, Forthcoming.

Conferences (since 2000)

- Juan S., Lantz F., 2000, Implementation of bootstrap techniques for econometric forecasts: illustrations in the car industry, Conference computing in Economics and Finance, Barcelona, July 2000
- Indjehagopian J.P., Juan S., Lantz F., Philippe F., 2001, Analyse économétrique de la part de marché des voitures neuves à moteur diesel, communication aux journées de la SFDS, mai 2001
- Bourdon M.B., Indjehagopian J.P., Lantz F., 2002, "Apport des méthodes de Bootstrap à un modèle de Translog. Application à la demande", With M. Bourdon, F. Lantz. In : XXXIV Journées de Statistique (SFdS), Bruxelles & Louvain (Belgique) : Société Française de Statistique (SFdS), 2002
- Indjehagopian J.P., Ioannidis Ch. Lantz F., 2003, "Oil Price Volatility: Does It Matter Who Trades?", . Workshop Econometric Time Series Analysis- Methods and Applications -SFB 10-", Linz, Austria, 29 sept. 2003
- Indjehagopian J.P., Ioannidis Ch. Lantz F., 2004, "Oil Price Volatility: Influence of the Trader's Behaviour on the Term Structure", In : Stock Markets-LXXXIV Colloque International de l'AEA, Paris (France) : AEA, 2004
- Saint Antonin V., Lantz F., Gruson J.F., 2005, Challenge of Clean Fuels for the World Refining Industry: First lessons of the OURSE-POLES model, Communication IAEE conference, Taiwan, June 2005
- Lantz F., A. Saniere, 2006, A World-wide economic analysis of the non conventional crude oil supply based on a modeling approach – presentation at the 29th IAEE International Conference – June 2006.
- Lantz F., A. Saniere, 2007, World-wide economic analysis of the non-conventional supply based on a modeling approach – communication at the SPE HEES 2007 Conference – 1 to 3 April 2007, Dallas, Texas.
- Lantz F., Hache E., 2008 , Forecasting oil products prices with threshold effects, ISF Symposium, Nice, June 2008
- Sentenac E., Lantz F., 2009, Analyse des tendances et des ruptures sur le marché français automobiles, Journées de la SFDS, Bordeaux, avril 2009
- Lantz F., Bertout E., 2009, Forecasting Passenger Cars Stock in Europe in 2020, ISF Symposium, Hong-Kong, June 2009
- Lantz F., Hache E., 2010, Oil price volatility and traders behaviour, ISF Symposium, San Diego, June 2010
- Bouchonneau D., Lantz F., 2010, Strategies of investment in the Canadian oil sands under price uncertainty : a dynamic programming approach, USAEE Conference, Calgary, October 2010
- Lantz F., Indjehagopian J.P., Sentenac-Chemin E., 2011, Multiple structural break change and energy forecasts : application to diesel cars equipment in France, ISF Symposium, Prague, July 2011
- Lantz F., Ioannidis Ch., Hache E., 2011, Oil market volatility : an econometric analysis of the interaction between the crude oil markets, the diesel oil and the gasoline markets, USAEE Conference, October 2011

Research reports and working papers (since 2000)

- Lantz F., 2000, Analyse statistique de la demande et optimisation des parcs de véhicules de remplacement, Research contract with Renault, 100 p.
- Lantz F., Lesne Ch., 2003, Analyse de la consommation d'énergie externe dans l'industrie automobile, Rapport au Ministère de l'Économie, des Finances et de l'Industrie, 41 p.
- Lantz F., Gruson, J.F., Saint-Antonin V., 2005, Development of a model of the world refining for the POLES model : the OURSE model, European Commission-JRC, Technical Report Series, EUR 21864
- Lantz F., Hache E., 2007, Analyse des déterminants de la demande de fioul lourd, Rapport de recherche pour Gdf-Suez, 50 p.
- Lantz F. Bertout E., 2008, Analyse des différentiels de prix entre les fiouls domestiques 0,1% et 0,2% de teneur en soufre sur les marchés européens, Rapport de recherche pour EDF, 50 p.
- Lantz F., Sentenac-Chemin E., 2010, Analyse des tendances et des ruptures sur le marché automobile français. Modélisation du taux de diésélisation dans le parc, Cahiers de l'Économie IFP n°76, décembre 2010
- Hache E., Lantz F., 2011, Oil price volatility: an econometric analysis of the WTI market, Cahiers de l'Économie IFP n°80, avril 2011

Le Cadre E., Lantz F., Juvet P.A., 2011, The bioenergies development: the role of biofuels and the CO2 price, Cahiers de l'Economie IFP n°82, décembre 2011

Le Cadre E., Lantz F., Farnoosh A., 2011, Bioenergies usages in electricity generation utility means through a modeling approach: an application to the French case, Cahiers de l'Economie IFP n°83, décembre 2011

Lantz F., Saint-Antonin V., Gruson J.F., Suwala W., 2012, Development of a model of the World Refining for the POLES model and simulation to 2030 : the OURSE model, JRC-IPTS report 25221 EN

Lantz F., Bouchonneau D., Saniere A., 2012, Analyse économique et modélisation du développement des hydrocarbures "non conventionnels": application aux sables asphaltiques du Canada, rapport CFE n°55, 67 p.

Hache E., Lantz F., 2013, Analyse économique et modélisation de la spéculation sur les marchés financiers du pétrole, rapport CFE n°66, 55p.

Lantz F., L'économie des ressources naturelles en France et en Europe, in Energies marines et enjeux socio-économiques (Gaëlle GUEGUEN-HALLOUET et Harold LEVREL Ed.), Ed. Pedone, 2013, pp. 25-32.