

# Curriculum Vitae

## Laurent Cavaignac

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### Employment

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Since 2021: Vice-President of the University of Perpignan in charge with graduates' employability  
Since 2019: Director of studies (Freshman year) – Department of Business Management;  
2013-2019: Head of the Department of Business Management;  
2011-2013: Head of the Department of Business Techniques;  
Since 2011: Associate Professor at the University of Perpignan Institute of Technology;  
2006-2011: Assistant Professor and Researcher for the Department of Economics and Management and the Institute of Business Administration of the University of Perpignan;  
2004-2006: Temporary Assistant Professor and Researcher (ATER) for the Department of Economics at the University of Perpignan;  
1997-2003: Statistician for the French National Health Insurance System (Social Security), CPAM Perpignan;  
1993-1997: Statistician/Economist for the French Ministry of Health (AIDS Mission), Paris;  
Spring 1991: Three-month internship at Lubrizol Corporation, Cleveland, Ohio.

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### Education

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2004-2007: **Ph.D. in Economics**, Suma Cum Laude with Publication Award, University of Perpignan;  
1994-1996: Master's Degree in Health Economics, University of Paris VII;  
1989-1991: Master's Degree in Statistics and Econometrics with high honors, Toulouse School of Economics;  
1986-1989: Bachelor's Degree in Economics and Econometrics, Toulouse School of Economics.

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### Ph.D.

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“Distance Functions in Production Theory: Applications to Uncertainty and Non-Parametric Tests “, June 22, 2007, Suma Cum Laude with « Jury Congratulations » and Publication Award.

### Commitee:

Jean-Marc Bourgeon, Research Director at the INRA, President;  
Walter Briec, Professor at the University of Perpignan, Director;  
Robert G. Chambers, Professor at the University of Maryland, Reviewer;  
Emili Griffell-Tatjé, Professor at the Universidad Autonoma de Barcelona;

Kristiaan Kerstens, Research Director at the CNRS;  
Léopold Simar, Professor at the Catholic University of Louvain, Reviewer.

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### **Honors and Awards**

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2007: Thesis publication award;  
1990: Graduate Scholarship, Toulouse School of Economics.

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### Main Administrative Achievements

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As Head of the Department of Business Management - 300 students / 15 teachers and researchers:

- First Head of the Department unanimously elected since 1974;
- Creation of an International group of students with 30% of courses taught in English;
- Development of international student exchanges in Europe and Canada;
- Creation of three new degrees;
- Increase of student applications by 10%;
- Creation of an apprenticeship program;

As Head of the Department of Business Techniques – 130 students / 5 teachers and researchers:

- Doubling of the annual budget;
- Increase of the number of students by 30%;
- Creation of a new degree;
- Management of two bachelor degrees in SME's Management for the Department of Business Management;

As Statistician for the French National Health Insurance System:

- Follow up of regional Health expenses;
- Activity and labor needs forecasts;
- Databases management (SQL language);
- Teaching of Excel for the firm employees at a National level;
- Writing of a tutorial on SAS™ at a National level;

As Statistician/Economist for the French Ministry of Health:

- Management of the National Database of HIV patients (SQL language);
- In charge with cooperation with South America countries (Brazil, Argentina, Chile and Uruguay);
- Yearly training of 20 new hospital technicians using the database;
- Economic studies on hospital cost of HIV;
- Modelling of the HIV infection in France;

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### University Teaching

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**Since 1999:**

**Economics:** Macroeconomics, Microeconomics<sup>1</sup>, International Trade<sup>1</sup>, National Accountings<sup>1</sup>, Economics of Uncertainty, Risk Management<sup>1,2</sup>, Financial Systems<sup>1</sup>, Financial Assets Pricing<sup>1,2</sup>, Competitive Intelligence<sup>1,2</sup>;

**Statistics and Econometrics:** Descriptive Statistics<sup>1</sup>, Probability<sup>1</sup>, Mathematical Analysis, Inferential Statistics<sup>1</sup>, Data Analysis<sup>2</sup>, Logistic Optimization, Time Series<sup>2</sup>, SAS™ Macros<sup>2</sup>, Excel™ Macros.

1 Taught in English - 2 Graduate lectures

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### Research Interests

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Microeconomics, Transport Economics, Health Economics, Uncertainty, Productivity and Efficiency Analysis, Data Envelopment Analysis, Distance Functions.

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### Publications in Journals

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- [1] "Input Efficiency Measures: A Generalized Encompassing Formulation", with Briec W. and Kerstens K., Operations Research, 2020, DOI: 10.1287/opre.2019.1963;
- [2] "Third-Party Logistics Efficiency: An Innovative Two-Stage DEA Analysis", with Dumas A., Petiot R., International Journal of Logistics Research and Applications, 2020, DOI: 10.1111/jscm.12046;
- [3] "A Quarter Century of DEA Applied to the Transport Sector : A Bibliometric Analysis", with Petiot R., Socio-Economic Planning Sciences, 2016, Vol. 58;
- [4] "L'apport de la méthode DEA au pilotage de la performance des centres de coûts : l'exemple de la logistique amont", with Villesèque-Dubus F., Finance Contrôle Stratégie, 2014, Vol. 17-3;
- [5] "Directional Measurement of Technical Efficiency of Production: An Axiomatic Approach", with Briec W. and Kerstens K., Economic Modelling, 2011, Vol. 28-3, pp. 775;
- [6] "An Extension of the Multi-Output State-Contingent Production Model", with Briec W., Economic Theory, 2009, Vol. 39-1, pp. 43-64;
- [7] "Bias of Distance Functions Estimates and Primont and Primont's Homotheticity Test", Journal of Productivity Analysis, 2008, Vol. 31, pp. 95-100;
- [8] "A Comment on Testing for Inverse Homotheticity: A Non Parametric Approach", Japanese Economic Review, with Briec W., 2007, Vol. 58-4, pp. 524-531;
- [9] "Activité liée au VIH dans 24 sites hospitaliers de France métropolitaine en 1995-1996", with Bourdillon F., Courtial-Destembert S., Geoffard P.Y. and Tchakamian S., Bulletin Epidémiologique Hebdomadaire, 1997, Vol. 37-38;

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### Publications in Books

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- [8] "L'infection à VIH en France : un modèle de l'épidémie", with Demelemeester R., Geoffard P.Y. and Nadal J.M., in Le SIDA en France, état des connaissances en 1994, ANRS et Ministère des Affaires Sociales, June 1995;

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### Other Publications

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- [10] "La disparité des coûts de prise en charge des patients atteints d'infection à VIH", with Tortay I. and Geoffard P.Y., Solidarité Santé, Vol. 3, pp. 77-84, 1994;
- [11] "Les traitements anti-rétroviraux : évolution des prescriptions 1993-1996", with Bourdillon F., Courtial S. and Nadal J.M., Journal du Sida, June 1996;
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## Communications

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### National and International Conferences:

- “Analysis of French Logistics Services Providers Performance Using Data Envelopment Analysis”, XVth European Workshop on Productivity and Efficiency Analysis (EWEPA), London, June 12-15, 2017;
- “The Contributions of DEA to Airports Efficiency Analysis: A 20-Year Meta-Analysis”, DEA 2017, Prague, June 26-29, 2017;
- “Two Decades of DEA Applied to the Transport Sector “, XIV<sup>th</sup> European Workshop on Productivity and Efficiency Analysis (EWEPA), Helsinki, June 15-18, 2015;
- “Les principaux apports de la méthode DEA à la gestion simultanée des coûts, de la qualité et des délais”, 1<sup>ère</sup> journée de la gestion conjointe des coûts, de la qualité et des délais, Nantes, France, January 30, 2009;
- “Tests non paramétriques de congestion”, 56<sup>th</sup> AFSE Annual Conference, Paris, September 19-21, 2007;
- “Non-Parametric Input Congestion Test”, INFORMS International, Puerto-Rico, July 8-11, 2007;
- “Non-Parametric Tests of Homotheticity and Translation Homotheticity”, 61<sup>st</sup> European Meeting of the Econometric Society (ESEM), Vienna August 24-28, 2006;
- “Primont and Primont’s Homotheticity Indices”, IV<sup>th</sup> North American Productivity Workshop (NAPW), New-York City, June 27-30 2006;
- “Contingent Price Duality in an Infinite Dimensional Multi-Output State-Contingent Production Model”, IX<sup>th</sup> European Workshop on Productivity and Efficiency Analysis (EWEPA), Brussels, June 30-July 1, 2005;
- “How to manage Social Security Databases, Social Security Statisticians Annual Conference, March, 1999;
- “Le DMI2, un outil de suivi statistique et économique de la prise en charge hospitalière des personnes séropositives en France”, Conférence de coopération entre les pays du cône sud et la France, Santiago des Chile, August 28-31, 1996;
- “La prise en charge hospitalière des personnes atteintes d’infection à VIH en France”, Conférence de coopération entre les pays du cône sud et la France, Rio de Janeiro, November 15-18, 1995.

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## Seminars

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- “Mesures d’efficacité et incertitude”, Labores (URA 362), IESEG, Lille, France, December 8, 2005;
- “Nonparametric Tests for Production Sets Homotheticities”, GEREM, University of Perpignan, December 2, 2005;
- “Contingent/Deterministic Price/Revenue Efficiency in a Multi-Output State Contingent Production Model”, GEREM, University of Perpignan, February 11, 2005.

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### Visiting Fellow

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Karel De Grote Hogeschool, Department of International Business Studies, Antwerpen, Belgium, October, 2015.

University of Louvain La Neuve, Institut de Statistique, Louvain La Neuve, Belgium, October, 2008.

University of Maryland, Department of Agricultural and Economic Resources, Maryland, USA, May 2006.

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### Language Experience

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- English: Fluent – more than one year living in English speaking countries – TOEFL 108/120 – more than 250 novels read – teaching of all classes in English since 2014;
- German: Moderate level – (5 years of learning but scarce practice);
- Spanish: moderate reading and understanding level (regular practice in Spain).