

“Short” CV

Civil status

First Name : Frédéric.
Surname : Mr. FERRATY.
Date of birth and place : May, 7, 1966, Talence (France).
Nationality : French
Marital status : Married, 2 children.
Personal address : 18 avenue F. Mitterrand
 31390 Marquefave, France
Professional status : Academic Researcher
Professional address : Institut de Mathématiques de Toulouse
 Université Paul Sabatier
 118 route de Narbonne
 31062 Toulouse Cedex 9, France

Qualifications

1996 : PhD in Applied Mathematics
 2003 : “Habilitation à diriger les recherches”

1 In brief

<u>ARTICLES</u>	International Statistical Journals	31
	C.R.A.S.	8
	Others	4
<u>SUBMITTED ARTICLES</u>		3
<u>BOOKS</u>	Monographs	3
	Chapters in collective book	9
<u>SOFTWARES</u>	NPFDA’s website, Statlib,...(R/S+ routines)	7
<u>INVITATIONS</u>	(Lectures, seminars abroad,...)	35
<u>CO-SUPERVISOR</u>	PhD	8
	Master’s dissertations	4
<u>CO-ORGANIZER OF CONFERENCES</u>	IWFOS’s conferences, ERCIM’s meetings, IASC’2008, STAPH’s meetings, Compstat’2004,...	13
<u>EDITORIAL WORK</u>	Associate Editor (Comp. Stat., JMVA, Elec. J. Stat., Stat. Sinica)	4
	Guest Editor (Special Issue in JMVA)	1
	Editor of books	3
<u>EXPERT’S WORK</u>	Number of journals (as reviewer) (Ann. Stat., JASA, JMVA, PTRF, Technometrics, CSDA, JRSSB, ...)	29
	Jurys (PhD, HDR)	12
<u>MATHSCINET PROFILE</u>	Earliest Indexed Publication	1995
	Total Publications	41
	Total Citations	226

2 Sample of publications

1. F. FERRATY, W. GONZALEZ-MANTEIGA, A. MARTINEZ-CALVO, P. VIEU. Presmoothing in functional linear regression. *Statistica Sinica* (to appear).
2. F. FERRATY, A. QUINTELA-DEL-RIO, P. VIEU. Specification test for conditional distribution with Functional Data. *Econometry Theory* (to appear).
3. L. DELSOL, F. FERRATY, P. VIEU. Structural test in regression on functional variables. *J. Mult. Anal.* (to appear).
4. F. FERRATY, A. QUINTELA-DEL-RIO, P. VIEU. Analysis of time of occurrence of earthquakes : a functional data approach. *Mathematical Geosciences* (to appear).
5. F. FERRATY, P. HALL, P. VIEU. Most-predictive design points for functional data predictors. *Biometrika*, **97**, 807-824.
6. F. FERRATY (2010). Special Issue : Statistical Methods and Problems in Infinite-dimensional Spaces (Ed.). *J. Mult. Anal.*, **101**, 305-490.
7. F. FERRATY, I. VAN KEILEGOM, P. VIEU (2010). On the validity of the bootstrap in nonparametric functional regression. *Scand. J. Stat.*, **37**, 286-306.
8. F. FERRATY, A. LAKSACI, A. TADJ, P. VIEU (2010). Rate of uniform consistency for nonparametric estimates with functional variables. *J. Stat. Plan. Infer.*, **140**, 335-352.
9. F. BURBA, F. FERRATY, P. VIEU (2009). k -Nearest Neighbor method in functional nonparametric regression. *J. of Nonparametric Statistics*, **21**, 453-469.
10. F. FERRATY, P. VIEU (2009). Additive prediction and boosting for functional data. *Computational Statistics & Data Analysis*, **53**, 1400-1413.
11. A. AIT SAIDI, F. FERRATY, R. KASSA, P. VIEU (2008). Cross-validated estimations in the single functional index model. *Statistics*, **42**, 475-494.
12. K. BENHENNI, F. FERRATY, M. RACHDI, P. VIEU (2007). Local smoothing regression with functional data. *Comp. Statistics*, **22**, 353-369.
13. S. DABO-NIANG, F. FERRATY, P. VIEU (2007). On the using of modal curves for radar waveforms classification. *Computational Statistics & Data Analysis*, **51**, 4878-4890.
14. F. FERRATY, A. MAS, P. VIEU (2007). Nonparametric regression on functional data : inference and practical aspects. *Aust N. Z. J. Stat.*, **49**, 267-286.
15. F. FERRATY, P. VIEU (2006). *Nonparametric Functional Data Analysis : Theory and Practice*. Springer, New York.
16. F. FERRATY, A. LAKSACI, P. VIEU (2006). Estimating some characteristics of the conditional distribution in nonparametric functional models. *Stat. Inference Stoch. Process*, **9**, 47-76.
17. F. FERRATY, A. RABHI, P. VIEU (2005). Conditional quantiles for functional dependent data with application to the climatic *El Niño* phenomenon. *Sankhya*, **67**, 378-398.
18. F. FERRATY AND P. VIEU (2004). Nonparametric models for functional data, with applications in regression, time series prediction and curves discrimination. *J. of Nonparametric Statistics*, **16**, 111-125.
19. H. CARDOT, F. FERRATY ET P. SARDA (2003). Spline Estimators for the Functional Linear Model. *Statistica Sinica*, **13**, 571-591.

20. F. FERRATY AND P. VIEU (2003). Curves discrimination : a nonparametric functional approach. *Computational Statistics & Data Analysis*, **44**, 161-173.
21. H. CARDOT, F. FERRATY, A. MAS ET P. SARDA (2003). Test of nullity in the Functional Linear Model. *Scand. J. Stat.*, **30**, 241-255.
22. F. FERRATY, P. VIEU (2002). The Functional Nonparametric Model and Application to Spectrometric Data. *Computational Statistics*, **17**, 545-564.
23. H. CARDOT, F. FERRATY, P. SARDA (1999). Linear Functional Model. *Statist. & Prob. Letters*, **45**, 11-22.

3 Editorial duties

1. **Associate Editor** for “Computational Statistics” (2005-).
2. **Associate Editor** for “Journal of Multivariate Analysis” (2007-).
3. **Associate Editor** for “Statistica Sinica” (2008-).
4. **Associate Editor** for “Electronic Journal of Statistics” (2010-).
5. **Guest Editor** of the special issue in “Journal of Multivariate Analysis” entitled : *Statistical Methods and Problems in Infinite-dimensional Spaces* (2010), **101**, 305-490.
6. **Co-Editor** with S. Dabo-Niang of the volume *Functional and Operatorial Statistics. Contributions to Statistics*, Physica-Verlag, Heidelberg (2008).
7. **Co-Editor** with Y.Romain of *Oxford Handbook of Functional Data Analysis*. Oxford University Press (2011).
8. **Editor** of the volume *Recent Advances in Functional Data Analysis and Related Fields. Contributions to Statistics*, Physica Verlag, Heidelberg (2011).

4 Invitations abroad from 2010 (Conferences, collaborations, etc)

1. Meeting the Challenges of High Dimension - Statistical Methodology, Theory and Applications (Institute of Mathematical Sciences, Singapore, August 2012)
2. 8th ERPEN (Universidad de Buenos Aires, Argentina, December 2011)
3. IMS-China international Conference on Statistics and Probability (distinguished lecturer, XiAn, China, July 2011)
4. Eighth International Chinese Statistical Association International Conference (Guangzhou, China, December 2010)
5. London School of Economics, UK (December 2010)
6. European Research Consortium of Informatics and Mathematics Conference (December 2010, London,UK)
7. Colloque Modélisation Statistique et Stochastique (November 2010, Alger, Algérie)
8. University of Singapore, Singapore (November 2010)
9. Melbourne University, Australia (October 2010)

10. Coruna University, Spain (July 2010)
11. Masary University, Rep. Czech (March 2010)

5 International scientific duties

1. **Co-chair** of the Specialized Group “Statistics for Functional Data” (SFD : <http://www.dcs.bbk.ac.uk/matrix/ercim/TrackSFD.html>) in the “European Research Consortium for Informatics and Mathematics” (ERCIM : <http://www.ercim.org>).
2. **Co-chair of the Scientific Committee** of “2nd International Workshop on Functional and Operatorial Statistics” (June 2011, Santander, Spain).
3. **Session co-organizer** “Statistics for Functional Data” in the ERCIM’2010 meeting (December 2010, London, UK).
4. **Session co-organizer** “Statistique Fonctionnelle” in the SFDS’2010 meeting (May 2010, Marseille, France).
5. **Co-chair of the Scientific Committee** of “1st International Workshop on Functional and Operatorial Statistics” (June 2008, Toulouse, France).
6. **Session co-organizer** “Sparseness and Functional Data” in the ERCIM’2009 meeting (October 2009, Cyprus).
7. **Session co-organizer** IASC’2008 (December, Yokohama, Japan) “Statistics for functional data”.
8. **Session organizer** COMPSTAT’2004 (August, Prague) ”Functional Data : Modelling and Application”.
9. **Co-organizer** of the Annual meetings of french STAPH group (<http://www.math.univ-toulouse.fr/staph> : 2002,2003,2005-2007).
10. **Co-chair of the Organizing Committee** of “9èmes Rencontres de la Société Francophone de Classification” (September 2002, Toulouse, France).

Toulouse, March 2011.

Frédéric FERRATY.