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## Julien JACQUES

Full Professor of Statistics, Université Lumière Lyon 2  
Ph.D. of Applied Mathematics

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Born on 24/10/1977 in Besançon (France), married, 3 children.  
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### Employment

- 2014-... **Full Professor of Applied Mathematics (Statistics)**, Université Lumière Lyon 2  
(*Professeur des Universités de 1ère classe en Mathématiques Appliquées, section CNU 26*)  
Head of the Data Mining and Decision team, Laboratoire ERIC, EA 3083  
Teaching at Institut de la Communication  
External Collaborator of INRIA Modal team
- 2006-14 **Assistant-Professor of Applied Mathematics**, Université Lille 1  
(*Maître de Conférences en Mathématiques Appliquées*)  
Research at Laboratoire Paul Painlevé, UMR CNRS 8524  
Teaching at Polytech'Lille
- 2004-06 **Temporary Research and Teaching Attaché**, Université Pierre Mendès-France Grenoble 2.  
Research at LabSAD  
Teaching at IUT 2
- 2001-04 **Ph.D. student in Statistics**, INRIA Rhône-Alpes  
IS2 and Mistis teams, CEA - INRIA grant

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### Education

- 2012 **Habilitation à Diriger des Recherches (HDR)** of Applied Mathematics  
*Contribution to statistical learning of complex data using generative models*  
Reviewers: Ali Gannoun, Jean-Michel Poggi and Brendan Murphy  
Defended at Université Lille 1, on November, 29, 2012
- 2005 **Ph.D. of Applied Mathematics (statistics)**  
*Contributions to sensitivity analysis and generalized discriminant analysis*  
Advisor: Christian Lavergne. Reviewers: Alain Baccini, Jérôme Saracco  
Defended Université Joseph Fourier, on December, 5, 2005
- 2001 **Master of Recherche (DEA)** in Mathematics and Applications  
Obtained with honors, Université de Franche-Comté
- 2001 **Master Professional (DESS)** Mathematics, Scientific Computing and Statistics  
Obtained with honors, Université de Franche-Comté

## Research topics

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- **Statistical learning on complex data:** classification, clustering and co-clustering of categorical data, functional data, mixed data, network.
- **Statistical learning for high dimensional data:** variable clustering in regression and classification.
- **Transfer learning:** transfer learning in regression and classification.
- **Applications of statistical learning:** digital humanities, biology and genetics, industrial applications.

## Teaching

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- 2014-... **Professor at Université Lumière Lyon 2** (~300h ETD/an)  
- Model-based learning, M2 Data Mining  
- Time series forecasting, M2 Informatics and Statistics for Data Science  
- Big data mining, M2 Business Intelligence and Big Data  
- Statistical inference, M1 Computer Science and L3 MIASHS  
- Introduction to data mining, Doctoral Courses
- 2014-16  
- Numerical machine learning, Erasmus Mundus Master DMKM  
- Probability and Statistics, Erasmus Mundus Master DMKM  
- Data Mining, University of Can Tho, Vietnam
- 2006-14 **Assistant-Professor at Université Lille 1** (~300h ETD/an)  
- Statistical inference, Polytech'Lille  
- Probability, Polytech'Lille  
- Statistical modelling, Polytech'Lille  
- Stochastic process, Polytech'Lille  
- Time series, Polytech'Lille

## Teaching responsibilities

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- 2015-... **Director of the M2 Data Mining**, Université Lumière Lyon 2  
2nd year specialty of Master Computer Science
- 2014-18 **Director of the L3 Data Science**, Université Lumière Lyon 2  
3rd year specialty of Licence MIASHS
- 2015-17 **Coordinator of the DMKM European Master**, Université Lumière Lyon 2  
Master in Data Mining and Knowledge Management in collaboration with University of Barcelona, University of Piemonte Orientale, Université Pierre et Marie Curie, Polytech'Nantes
- 2006-14 **Director of the 3rd year at Polytech'Lille**, Université Lille 1  
3rd year of Statistics and Computer Science department
- 2007-10 **Director of the 4th year at Polytech'Lille**, Université Lille 1  
4th year of Statistics and Computer Science department

## Administrative responsibilities

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- 2018-... Member of the council of Institut de la Communication, Université Lumière Lyon 2
- 2009-14 Chief of the Mathematics and Computer Science pole of Polytech'Lille, Université Lille 1
- 2009-14 Member of the Scientific and Educational councils of Polytech'Lille, Université Lille 1

## Ph.D. students

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- 2018-... **Antoine Gourru**  
Title: Representation learning for structured dynamic data. Grant: Université Lumière Lyon 2.
- 2018-... **Jean Dupuy**  
Title: Learning textual recommendations by formalizing expert reasoning. Grant: MeetSyS (CIFRE).
- 2017-... **Margot Selo**  
Title: Co-clustering for dynamic mixed data. Grant: Université Lumière Lyon 2.
- 2016-... **Amandine Schmutz**  
Title: Search for parameters of locomotion analysis of the athlete horse by setting up statistical tools and datamining. Grant: LIM Group (CIFRE).
- 2016-... **Komi Nagbe**  
Prediction of production and consumption of renewable energy. Grant: ENERCOOP (CIFRE).
- 2015-18 **Yosra Ben Slimen**  
Knowledge discovery for big data applied to the automatic management of radio networks. Grant: Orange (CIFRE).
- 2013-16 **Quentin Grimonprez**  
Kernel change-point detection for high-dimensional data. Grant: INRIA and DGA.
- 2013-16 **Florence Loingeville**  
Statistical tools for quality control. Grant: AGLAE (CIFRE).
- 2010-14 **Loic Yengo**  
Classification and variable selection in regression. Grant: CNRS.
- 2010-13 **Julie Hamon**  
Combinatorial optimization for variable selection in high dimensional regression: application to animal genetic. Grant: Gènes Diffusion (CIFRE).

## Post-doc supervision

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- 2014-15 **Abul Hasnat**  
Topic: Temporal model-based clustering for web reputation analysis. Grant: ANR Imagiweb.

## Scientific responsibilities

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- 2015-... **Head of the Data Mining and Decision team** of Laboratoire ERIC
- 2018-... Member of the **executive board** (Treasurer) of the **French Statistical Society**
- 2016-... Member of the scientific committee of the journal "Management & Data Science"
- 2015-... Member of the board of ATLAS action, GdR MaDICS
- 2015-16 President of the "Statistics and Image" group of the French Statistical Society

## Research evaluation

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- 2015-... **Reviewer and comity member of Ph.D. theses**  
Serge Moulin, Université de Franche-Comté, December 2018  
Aichetou Bouchareb, Université Paris 1 Panthéon-Sorbonne, November 2018  
Lorenzo Mancini, Università di Bologna, Italy, January 2018  
Ines Jlassi, Université de Monastir, Tunisia, January 2018  
Valérie Robert, Université Paris Sud, April 2017  
Antoine Barbieri, Université de Montpellier, June 2016  
Basad El-Saray, Université de Franche-Comté, June 2016  
Henri Wallard, Conservatoire National des Arts et Métiers, December 2015  
Amaury Labenne, Université de Bordeaux, November 2015  
Damien McParland, University College Dublin, Irlande, July 2014  
Anastasios Bellas, Université Paris 1 Panthéon-Sorbonne, January 2014
- 2018-... **Member of Ph.D. thesis comities**  
Minh Thang Do, Université Lille 1, December 2012
- 2005-... **Reviewer for 17 international journals**  
JASA, AoAS, STCO, Stat. in Med., CSDA, JSS, PRL, Neurocomp., SADM, JAS, CS...

## Workshop organization

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- 2017 Organizer of the conference StatLearn'17
- 2017-... Member of the scientific committee of "Rencontres de la SFC"
- 2015-... Member of the organizing committee of the conference StatLearn  
<http://statlearn.sfds.asso.fr>
- 2015 Organizer of a special session at CMStatistics 2015, December 2015, London (UK)
- 2014 Organizer of the seminar of Probability and Statistics, Laboratoire Paul Painlevé, Université Lille 1
- 2012 Co-organizer of the conference StatLearn'12, April 2012, Lille
- 2011 Co-organizer of the "journées d'Astro-Statistique", December 2011, Grenoble
- 2010-... Member of the scientific committee of several conferences or workshop  
(BigLA 2016, Rencontres R 2012, MASHS 2010)

## Industrial grants

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- 2018-21 **MeetSys**  
Learning textual recommendations by formalizing expert reasoning
- 2017 **MasterK**  
Detection of correlation in time series
- 2017-19 **LIM Group**  
Search for parameters of locomotion analysis of the athlete horse by statistical tools and data mining
- 2016-18 **ENERCOOP**  
Prediction of production and consumption of renewable energy
- 2015-17 **Orange Lab**  
Automatic management of radio networks
- 2014 **Auchan**  
Determination of human factors in relation to the economic results of hypermarkets
- 2013-16 **AGLAE**  
Statistical tools for quality control

- 2012-13 **Vallourec**  
Experimental design and missing data
- 2010-13 **Gènes Diffusion**  
Variable selection in high dimensional regression for animal genetic
- 2010 **L'Oréal**  
Sensitivity analysis
- 2009-10 **Maïa Eolis**  
Prediction of consumption of renewable energy
- 2008-10 **PGxIS**  
Detection of genetic signal in pharmacogenetics

## Research grants

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- 2016-20 Grant "Model-based co-clustering of functional data", Fondation J. Hadamard
- 2017-18 Member of ISH project "Caodra"
- 2014-18 Member of ANR TecSan *ClinMine*
- 2016 Member of CNRS Imag'In *Q-Nano*
- 2015 Member of CONTINT *ImagiWeb*
- 2013-15 Member of CNRS Mastodons *Gargantua* and *Titant*

## Awards

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- 2009-17 Prime d'Excellence Scientifique (PES).

## Publications

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Publications type	Quantity	Publications type	Quantity
Journal articles	28	International conf. (invited)	33 (12)
Preprint	4	National conf. (invited)	31 (6)
Book chapters	2	Software	7

### Journal articles

- [1] Martínez-Álvarez F., Schmutz A., Asencio-Cortés G. and Jacques J. (2018). A novel hybrid algorithm to forecast functional time series based on pattern sequence similarity with application to electricity demand, to appear in *Energies*.
- [2] Bouveyron C., Bozzi L., Jacques J. and Jollois F-X.. *The Functional Latent Block Model for the Co-Clustering of Electricity Consumption Curves*, *Journal of the Royal Statistical Society: Series C (Applied Statistics)*, 67 [4], 897–915, 2018.
- [3] Jacques J. and Biernacki C. *Model-based co-clustering for ordinal data*, *Computational Statistics and Data Analysis*, 123, 101–115, 2018.
- [4] Ben Slimen Y., Allio S. and Jacques J. *Model-based co-clustering for functional data*, *Neurocomputing*, 291, 97–108, 2018.
- [5] K. Nagbe, J. Cugliari and J. Jacques. *Electricity Demand Forecasting Using a Functional State Space Model*, *Energies*, 11 [5], 1120, 2018.
- [6] Hasnat Md A., Velcin J., Bonnevey S. and Jacques J. *Evolutionary clustering for categorical data using parametric links among multinomial mixture models*, *Econometrics and Statistics*, 3, 141–159, 2017.
- [7] Bacou E., Haurogné K., Mignot G., Allard M., De Beaurepaire, L., Marchand J., Terenina E., Billon Y., Jacques J., Bach J., Mormède P., Hervé J., and Lieubeau B. (2016). *Acute social stress-induced immunomodulation in pigs high and low responders to ACTH*, *Physiology and Behavior*, 169, 1–8, 2017.

- [8] Jacques J. and Ruckebusch C. *Model-based co-clustering for hyperspectral images*, Journal of Spectral Imaging, 5[1], 1–6, 2016.
- [9] Biernacki C. and Jacques J. *Model-based clustering of multivariate ordinal data relying on a stochastic binary search algorithm*, Statistics and Computing, 26 [5], 929–943, 2016.
- [10] Yengo, L., Jacques J. and Biernacki, C. *Variable clustering in high dimensional linear regression: the R package clere*, R journal, 8[1], 92–106, 2016.
- [11] Bouveyron C., Côme E. and Jacques J. *The discriminative functional mixture model for the analysis of bike sharing systems*, Annals of Applied Statistics, 9[4], 1726–1760, 2015.
- [12] Herbert F., Tchitchek N., Bansal D., Jacques J., Pathak S., Bécavin C., Fesel C., Dalko E., Cazenave P-A., Preda C., Ravindran B., Sharma S., Das B. and Pied S., *Evidence of IL-17, IP-10, and IL-10 involvement in multiple-organ dysfunction and IL-17 pathway in acute renal failure associated to Plasmodium falciparum malaria*, Journal of Translational Medicine, 13[1], 1–11, 2015.
- [13] Jacques J. and Biernacki C. *Model-based clustering for multivariate partial ranking data*, Journal of Statistical Planning and Inference, 149, 201–217, 2014.
- [14] Jacques J., Grimonprez Q. and Biernacki C. *Rankcluster: An R package for clustering multivariate partial rankings*, 6[1], 101–110, 2014.
- [15] Jacques J. and Preda C. *Functional data clustering: a survey*, Advances in Data Analysis and Classification, 8[3], 231–255, 2014.
- [16] Yengo, L., Jacques J. and Biernacki, C. *Variable clustering in high dimensional linear regression*, Journal de la Société Française de Statistique, 155[2], 38–56, 2014.
- [17] Jacques J. and Preda C. *Model-based clustering for multivariate functional data*, Computational Statistics and Data Analysis, 71, 92–106, 2014.
- [18] Bouveyron C. and Jacques J. *Adaptive mixtures of regressions: Improving predictive inference when population has changed*, Communications in Statistics – Simulation and Computation, 43[10], 2570–2592, 2014.
- [19] Jacques J. and Preda C. *Funclust: a curves clustering method using functional random variables density approximation*, Neurocomputing, 112, 164–171, 2013.
- [20] Biernacki C. and Jacques J. *A generative model for rank data based on sorting algorithm*, Computational Statistics and Data Analysis, 58, 162–176, 2013.
- [21] Bouveyron C. and Jacques J. *Model-based Clustering of Time Series in Group-specific Functional Subspaces*, Advances in Data Analysis and Classification, 5[4], 281–300, 2011.
- [22] Bouveyron C., Gaubert P. and Jacques J. *Adaptive models in regression for modeling and understanding evolving populations*, Case Studies in Business, Industry and Government Statistics, 4[2], 83–92, 2011.
- [23] Jacques J., Bouveyron C., Girard S., Devos O., Duponchel L. and Ruckebusch C. *Gaussian mixture models for the classification of high-dimensional vibrational spectroscopy data*, Journal of Chemometrics, 24[11-12], 719–727, 2010.
- [24] Bouveyron C. and Jacques J. *Adaptive linear models for regression: improving prediction when population has changed*, Pattern Recognition Letters, 31[14], 2237–2247, 2010.
- [25] Jacques J. and Biernacki C. *Extension of model-based classification for binary data when training and test populations differ*, Journal of Applied Statistics, 37[5], 749–766, 2010.
- [26] Langlois-Jacques C. and Jacques J. *Détection d'hétérogénéité au sein de mesures de qualité de l'environnement*, La Revue Modulad, 40, 41–52, 2009.
- [27] Jacques J. and Biernacki C. *Classement de données binaires lorsque les populations d'apprentissage et de test sont différentes*, Revue des Nouvelles Technologies de l'Information, RNTI-A-1 Data Mining et apprentissage, réf. 794, 2007.
- [28] Jacques J., Lavergne C. and Devictor N. *Sensitivity Analysis in presence of Model Uncertainty and Correlated Inputs*, Reliability Engineering and System Safety, 91, 1126–1134, 2006.

## Preprints

- [29] Selosse M., Jacques J., Biernacki C. Model-based co-clustering for mixed type data, Preprint HAL nř01893457, 2018.
- [30] Selosse M., Jacques J., Biernacki C. ordinalClust: a package for analyzing ordinal data, Preprint HAL nř01678800, 2018.
- [31] Schmutz A., Jacques J. Bouveyron C., Chęze L. and Martin P. Clustering multivariate functional data in group-specific functional subspaces, Preprint HAL nř01652467, 2017.
- [32] Selosse M., Jacques J., Biernacki C. and Cousson-Gęlie F. Analyzing health quality survey using constrained co-clustering model for ordinal data and some dynamic implication, Preprint HAL nř01643910, 2017.

## Book chapters

- [33] Jacques J. and Faix-Burnet D., *Linear Regression in High Dimension and/or for Correlated Inputs*, in *Statistics for Astrophysics: Methods and Applications of the Regression*, EAS Publications Series, Vol. 66, 2014.
- [34] Beninel F., Biernacki C., Bouveyron C., Jacques J. and Lourme A., *Parametric link models for knowledge transfer in statistical learning*, in *Knowledge Transfer: Practices, Types and Challenges*, Nova Publishers, 2012.

## Invited communications in international conferences or workshops

- [35] J. Jacques, Classification, clustering and co-clustering for ordinal data, MBC2 2018, Catane, Italy, October 2018.
- [36] J. Jacques, Co-clustering for mixed data, 25th Summer Working Group on Model-Based Clustering of the Department of Statistics of the University of Washington, Ann Arbor, USA (MI), July 2018.
- [37] J. Jacques, Model based co-clustering for functional data, CMStatistics 2017, 10th International Conference of the ERCIM working group on Computational and Methodological Statistics, Londres, Royaume-Uni, December 2017.
- [38] J. Jacques, Model based co-clustering for functional data, 20th Conference of the Romanian Probability and Statistics society, Brasov, Roumanie, April 2017.
- [39] J. Jacques, Co-clustering for functional data, 20th Conference of the Romanian Probability and Statistics society, Brasov, Roumanie, April 2017.
- [40] J. Jacques, Co-clustering for ordinal data, 23th Summer Working Group on Model-Based Clustering of the Department of Statistics of the University of Washington, Paris, France, July 2016.
- [41] J. Jacques, Clustering functional data with FunFEM, CMStatistics 2015, 8th International Conference of the ERCIM working group on Computational and Methodological Statistics, Londres, Royaume-Uni, December 2015.
- [42] J. Jacques, Clustering multivariate ranking data, ISI2015, 60th World Statistics Congress, Rio de Janeiro, Bręsil, July 2015.
- [43] J. Jacques, Clustering multivariate ordinal data, International Workshop on Ordinal Data, Naples, Italy, October 2015.
- [44] J. Jacques, Clustering multivariate ordinal data, ERCIM 2014, 7th International Conference of the ERCIM working group on Computational and Methodological Statistics, Pise, Italy, December 2014.
- [45] J. Jacques, Model-based clustering for multivariate functional data, ERCIM 2013, 6th International Conference of the ERCIM working group on Computational and Methodological Statistics, Londres, Royaume-Uni, December 2013.
- [46] J. Jacques, Clustering multivariate ordinal data, 20th Summer Working Group on Model-Based Clustering of the Department of Statistics of the University of Washington, Bologne, Italy, July 2013.

## Communications in international conferences with proceedings

- [47] Ben Slimen Y., Allio S. and Jacques J. *Anomaly Prevision in Radio Access Networks Using Functional Data Analysis*. IEEE Globecom 2017, Singapore, October 2017.
- [48] Ben Slimen Y., Allio S. and Jacques J. *Model-based co-clustering for functional data*. 24th International Conference on Computational Statistics (COMPSTAT'16), Oviedo, Spain, August 2016.
- [49] Jacques J. and Ruckebusch C. *Co-clustering for hyperspectral images*. 6th international conference in spectral imaging (IASIM'16), Chamonix, France, July 2016.
- [50] Hasnat M.A., Velcin, J., Bonnevey S., Jacques J. *A Comparative Study of Clustering Methods with Multinomial Distribution*, in the proceedings of the 14th International Symposium on Intelligent Data Analysis, IDA 2015 (ERA rank: A), Saint-Etienne, October 2015.
- [51] Bouveyron C. and Jacques J. *Un algorithme EM pour une version parcimonieuse de l'analyse en composante principale probabiliste*, EGC2015, Luxembourg, January 2015.
- [52] Hamon J., Dhaenens C., Even G., Jacques J. *Feature selection in high dimensional regression problems for genomics*. 10th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics, CIBB'2013, Nice, France, June 2013.
- [53] Hamon J., Dhaenens C., Jacques J., Even G. *Feature selection for high dimensional regression using local search and statistical criteria*. 4th International Conference on Metaheuristics and Nature Inspired Computing, META'2012, Sousse, Tunisia, October 2012.
- [54] Jacques J. and Preda C. *Clustering multivariate functional data*. 20th International Conference on Computational Statistics (COMPSTAT'12), Limassol, Chypre, August 2012.
- [55] Jacques J. and Preda C. *Curves clustering with approximation of the density of functional random variables*. in the proceedings of the 20th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN'12), Bruges, Belgique, April 2012.
- [56] Lebre R., Biernacki C., Iovleff S., Jacques J., Preda C., McCarthy A. and Delrieu O. *Genetic apistasis analysis using 'taxonomy3'*. 2nd International BIO-SI Workshop, Rennes, France, October 2011.
- [57] Bouveyron C. and Jacques J. *Model-based Clustering of Time Series in Group-specific Functional Subspaces*. 12th annual conference of the International Federation of Classification Societies, Frankfurt, Germany, July 2011.
- [58] Jacques J. and Biernacki C. *A generative model for rank data based on sorting algorithm*. 19th International Conference on Computational Statistics (COMPSTAT'10), Paris, France, August 2010.
- [59] Bouveyron C. and Jacques. J. *Adaptive mixtures of regressions: improving predictive inference when population has changed*. 4th conference on Computational Methods for Modelling and Learning in Social and Human Sciences (MASHS'10), Lille, France, June 2010.
- [60] Jacques J. and Biernacki C. *Model-based clustering for rank data based on an insertion sorting algorithm*. 17ème Rencontres de la Société Francophone de Classification, La Réunion, June 2010.
- [61] Ruckebusch C., Bouveyron C. and Jacques J. *Classification of High-Dimensional NIR Spectroscopic Data*. RENACQ-4, Beni Mellal, March 2010.
- [62] Lebre R., Iovleff S., Biernacki C., Jacques J., Preda C., McCarthy A. and Delrieu O. *Rapid multivariate analysis of 269 Hapmap subjects and 1 million SNPs using 'taxonomy3'*. Cold Spring Harbor/Wellcome Trust meeting on Pharmacogenomics, Hinxton, UK, Septembre 2009.
- [63] Bouveyron C. and Jacques J. *Adaptive linear models in regression for the modeling of housing market in different U.S. cities*. Computational Methods for Modelling and Learning in Social and Human Sciences (MASHS'08), Créteil, France, June 2008.
- [64] Bouveyron C. and Jacques J. *Adaptive linear models for regression*. First joint meeting of the Statistical Society of Canada and the Société Française de Statistique, Ottawa, Canada, May 2008.
- [65] Jacques J. and Biernacki C. *Generalized discriminant rule for binary data when training and test populations differ on their descriptive parameters*. 17th International Conference on Computational Statistics (COMPSTAT'06), Rome, Italy, August 2006.
- [66] Devictor N., Marques M., Jacques J. and Lavergne C. *Advances in methods for Uncertainty and Sensitivity Analysis*. Proc. Workshop level 2 PSA and severe accident management, Cologne, Germany, March 2004.



- [67] Jacques J., Lavergne C. and Devictor N. *Sensitivity Analysis in presence of Model Uncertainty and Correlated Inputs*. Proc. Fourth International Conference on Sensitivity Analysis of Model Output (SAMO'04), Santa-Fe (NM), USA, March 2004.

### **Invited communications in national conferences or workshops**

- [68] Jacques J. *Co-clustering de données ordinales*, Twitter workshop, Grenoble, October 2018.
- [69] Jacques J. *Shrinkage methods for regression*, Ecole d'Astrostatistique, Annecy, October 2013.
- [70] Jacques J. *Generative models for classification and clustering of spectroscopic data*. Chimiométrie 2012, Lille, December 2012.
- [71] Jacques J. *Model-based clustering of functional data*. Premières rencontres Astrostatistique en France, Grenoble, December 2011.
- [72] Jacques J. *Apprentissage adaptatif en classification et régression*. Colloquium Statistique pour le traitement d'Images (STATIM08), Paris, January 2009.
- [73] Jacques J. and Biernacki, C. *Analyse discriminante généralisée: cas des données binaires avec modèles des classes latentes*. Colloque Data Mining et Apprentissage Statistique: applications en assurance, banque et marketing, Niort, May 2005.

### **Communications in national conferences**

- [74] Bouveyron C., Bozzi L., Jacques J. and Jollois F-X. *Model-Based Functional Co-Clustering for the Analysis and the Prediction of Electric Power Consumption*, PGMO Days 2018.
- [75] Schmutz A., Jacques J., Bouveyron, C., Chèze L. and Martin P. funHDDC: extension du package R pour le clustering de courbes fonctionnelles multivariées, 7èmes Recontres R, Rennes, June 2018.
- [76] Selosse, M., Jacques, J. and Biernacki C. Co-clustering de données textuelles et continues, 50èmes Journées de Statistique organisée par la Société Française de Statistique, Paris, June 2018.
- [77] Nagbe, K., Cugliari, J. and Jacques J.. Préviation journalière de la consommation d'électricité à l'aide d'un modèle à espace d'états fonctionnel, 50èmes Journées de Statistique organisée par la Société Française de Statistique, Paris, June 2018.
- [78] Schmutz A., Jacques J., Chèze L. and Martin P. Données fonctionnelles multivariées issues d'objets connectés: une méthode pour classer les individus, 50èmes Journées de Statistique organisée par la Société Française de Statistique, Paris, June 2018.
- [79] Jacques J. *Tutoriel on model-based learning*. StatLearn'18, Nice, April 2018.
- [80] Nagbe, K., Cugliari, J., Thebault, A. and Jacques J.. Préviation de génération d'électricité à partir de sources renouvelables, 49èmes Journées de Statistique organisée par la Société Française de Statistique, Avignon, June 2017.
- [81] Schmutz A., Jacques J., Chèze L. and Martin P. Prédiction de la vitesse du cheval de sport à partir de données accélérométriques et gyroscopiques, 49èmes Journées de Statistique organisée par la Société Française de Statistique, Avignon, June 2017.
- [82] Jacques J. and Biernacki C. *Model-based co-clustering for ordinal data*. 48èmes Journées de Statistique organisée par la Société Française de Statistique, Montpellier, June 2016.
- [83] Ben Slimen Y., Allio S. and Jacques J. *Model-based co-clustering for functional data*. 48èmes Journées de Statistique organisée par la Société Française de Statistique, Montpellier, June 2016.
- [84] Bouveyron C., Côme E. and Jacques J. *Le modèle DFM pour une analyse comparative des systèmes de vélos en libre service*. 48èmes Journées de Statistique organisée par la Société Française de Statistique, Montpellier, June 2016.
- [85] Jacques J. *Tutoriel on functional data*. StatLearn'16, Vannes, April 2016.
- [86] Loingeville F., Jacques J., Preda C., Guarini P. and Molinier O. *Modèle Linéaire Généralisé Hiérarchique Gamma-Poisson à 3 facteurs aléatoires - Application au contrôle de qualité*. 47èmes Journées de Statistique organisée par la Société Française de Statistique, Lille, June 2015.

- [87] Bouveyron C. and Jacques J. and Biernacki C. *funFEM: an R package for functional data clustering*, Quatrième Rencontres R, Grenoble, June 2015.
- [88] Yengo L., Jacques J. and Biernacki C. *Variable Clustering in High Dimensional Probit Regression Models*. 46èmes Journées de Statistique organisée par la Société Française de Statistique, Rennes, June 2014.
- [89] Loingeville F., Jacques J., Preda C., Guarini P. and Molinier O. *Analyse de variance à 2 facteurs imbriqués sur données de comptage: Application au contrôle de qualité*. 46èmes Journées de Statistique organisée par la Société Française de Statistique, Rennes, June 2014.
- [90] Grimonprez Q., Jacques J. and Biernacki C. *Rankclust: An R package for clustering multivariate partial rankings*, Deuxième Rencontres R, Lyon, June 2013.
- [91] Hamon J., Dhaenens C., Jacques J., Even G. *Modèles mixtes en génétique animale: sélection de variables par optimisation combinatoire*, 44èmes Journées de Statistique organisée par la Société Française de Statistique, Toulouse, May 2012.
- [92] Jacques J. *Classification automatique de données hétérogènes*. 44èmes Journées de Statistique organisée par la Société Française de Statistique, Bruxelles, Belgique, May 2012.
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## Softwares

- [105] ordinalClust (R, available on CRAN): clustering, classification and co-clustering of ordinal data [9].
- [106] funLBM (R, available on CRAN): co-clustering of functional data [2].
- [107] FunFEM (R, available on CRAN): clustering of functional data [11].
- [108] FunHDDC (R, available on CRAN): clustering of functional data [21].

- [109] Clere (R, available on CRAN): variable clustering in high-dimensional regression [16, 10].
- [110] Funclustering (R, available on CRAN): multivariate functional data clustering [19] et [17].
- [111] Rankcluster (R, available on CRAN): ranking data clustering [20, 15].
- [112] AdaptReg: transfer learning for mixture of regression [24].
- [113] SAinterface: toolbox for sensitivity analysis.