

CURRICULUM VITAE

Jean-David FERMANIAN



Personal Data

Address: ENSAE, 5 av. Henri le Chatelier,
91120 Palaiseau, France
Phone: +33(0)170266715 (pro), +33(0)618398166 (mob)
Email: jean-david.fermanian@ensae.fr

Present and Past Positions

Since 2009: Full Professor of Finance and Statistics, National School for Statistics and Economic Administration (ENSAE-Crest, Paris). *Head of the curriculum in Risk Management, co-Head of the Paris-Saclay master "Statistics and Finance" (from 2017).*

2009-2019: Head of risk analytics, WyeTree Asset Management (London). *Models of valuation and risk management of ABS bonds and CLOs.*

2006-2009: Senior Quantitative Analyst, Credit Derivatives, BNP-Paribas (London). *Pricing of synthetic structured credit products. Set-up of credit arbitrage strategies.*

2005-2006: Head of Risk, CooperNeff Asset Management (Paris/Philadelphia). *Risk management of relative-value strategies (equity-based, convertible bond).*

2002-2005: Head of Risk methodologies, Risk Control Department, Ixis Corporate & Investment Bank (Paris). *Definition and implementation of internal Economic Capital/Counterparty Risk Models.*

2000-2002: Head of the Statistics Laboratory, Center for Research in Economics and Statistics (CREST, Paris).

1999-2002: Professor of Statistics, National School for Statistics and Economic Administration (ENSAE, Paris).

Publications in Statistics and Financial Econometrics

2020: "On Kendall's regression", with A. Derumigny. To appear in *Journal of Multivariate Analysis*.

2020: "High-dimensional penalized ARCH processes", with B. Poignard. To appear in *Econometric Reviews*.

2019: "About kernel-based estimation of conditional Kendall's tau: finite distance bounds and asymptotic behavior", with A. Derumigny. *Dependence Modeling* **7**, 292-321.

2019: "A classification point-of-view about conditional Kendall's tau", with A. Derumigny. *Computational Statistics & Data Analysis* **135**, 70-94.

2018: "Combining cumulative sum change-point detection tests for assessing the stationarity of univariate time series", with A. Bücher and I. Kojadinovic. *Journal of Time series Analysis* **40**, 124-150.

2018: "Dynamic asset correlations based on vines", with B. Poignard. *Econometric Theory* **35**, 167-197.

2018: “On the link between volatilities, switching probabilities and correlation dynamics”, with H. Malongo. *Annals of Economics & Statistics* **131**, 1-24.

2018: “Single-index copulas”, with O. Lopez. *Journal of Multivariate Analysis* **165**, 27-55.

2017: “About tests of the Simplifying Assumption for conditional copulas”, with A. Derumigny. *Dependence Modeling* **5**, 154-197.

2017: “On the stationarity of Dynamic Conditional Correlation models”, with H. Malongo. *Econometric Theory* **33**, 636-663.

2017: “Multi-factor Granularity Adjustments for Market and Counterparty Risks”, with C. Florentin. *Journal of Risk* **20**, 1-27.

2016: “The behavior of dealers and clients on the European corporate bond market: the case of multi-dealer-to-clients platforms”, with O. Guéant and J. Pu. *Market Microstructure and Liquidity* **2**, No 3&4.

2015: “An Asymptotic Total Variation test for copulas”, with D. Radulovic and M. Wegkamp. *Bernoulli* **21**, 1911-1945.

2015: “On break-even correlation: the way to price structured credit derivatives by replication”, with O. Vigneron. *Quantitative Finance* **15**, 829-840.

2014: “The limits of Granularity Adjustments”. *Journal of Banking and Finance* **45**, 9-25.

PhD thesis supervision

- Hassan Malongo (Univ. Paris-Dauphine, 2011-2013): Stochastic volatility and correlation models. [now Financial engineer at Amundi]
- Benjamin Poignard (Univ. Paris-Dauphine, 2015-2018): Multivariate GARCH models and vines. [now Ass. Prof. at Osaka Univ. (Japan)]
- Eduardo Abi-Jaber (Univ. Paris-Dauphine, jointly with B. Bouchard, 2015-2018): Hybrid models and multivariate affine processes. [now Post Doc at Ecole Polytechnique]
- Alexis Derumigny (Univ. Paris-Saclay, 2016-2019): High dimensional sparse copula model. [now Post Doc at Univ. Twente (The Netherlands)]

Member of the Editorial Board of *Econometrics* (Guest Editor of the special issue “Recent developments in copula models”) and *Dependence Modeling*.

Programming skills: Gauss, SAS, VB, C++, R.

Links with the industry: co-head of the Initiative de Recherche “Nouveaux traitements pour le traitement des données lacunaires issus des activités de credit” Genes-BNP-Paribas-EIP.