

Natalia Bahamonde

Assistant Professor, Catholic University of Valparaiso, Errazuriz 2734, Valparaiso, Chile.

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PhD 2007, Orsay University France

2019 Gabriel A. Caceres, Eric D. Feigelson, G. Jogesh Babu, Natalia Bahamonde, Alejandra Christen, Karine Bertin, Cristian Meza, Michel Curé. Autoregressive Planet Search: Methodology. *Astronomical J*, 158-57.

2019 with GA Caceres, ED Feigelson, GJ Babu, A Christen, K Bertin, C Meza, M Curé. Autoregressive Planet Search: Application to the Kepler Mission. *Astronomical Journal*, 158-58

2019 with H Araya, S Torres, F Viens, Donsker type theorem for fractional Poisson process, *SPL* 150, 1-8.

2018 with Torres S, Tudor C ARCH model and fractional Brownian motion. *SPL* 134, 70-78.

2017 with R Ruby-Figueroa, J Saavedra, A Cassano. Permeate flux prediction in the ultrafiltration of fruit juices by ARIMA models. *Journal of Membrane Science* 524, 108-116.

2016 with P Doukhan. Spectral estimation in the presence of missing data, *Th Proba & Math Stat* 95, 55-74.

Banu Baydil

Columbia University, Department of Statistics, 1255 Amsterdam Avenue, MC 4690, New York, NY, 10027, USA, bb2717@columbia.edu, banubaydil@gmail.com

Ph.D. Mathematics, M.S. Applied Mathematics, 2010 Rensselaer Polytechnic Institute (RPI), NY

Department of Statistics, Columbia University, New York, NY

Lecturer in Discipline in Statistics, Full Time Faculty, 07/2014 - Present

Director of Undergraduate Studies, 06/2016 – 06/2019

Multi-scale modeling, analysis and simulation in biological & sciences; Stochastic dynamics, modeling, analysis and simulation; Statistical, graph theory and machine learning based quantitative data analysis.

-Multiscale Feature Analysis of Salivary Gland Branching Morphogenesis, 2012, *PLoS ONE* 7(3): e32906. doi:10.1371/journal.pone.0032906, (with Bilgin, Ray, Daley, Larsen, Yener).

-Cell-Graph Modeling of Salivary Gland Morphology, *IEEE, ISBI* 2010, (with Bilgin, Ray, Daley, Sequeira, Yener, Larsen).

-Cell-Graph Modeling of Salivary Gland Morphology, *J Dent Res* 89 (Spec Iss A): 129302, 2010, (with Bilgin, Ray, Daley, Sequeira, Yener, Larsen).

-B. Baydil, Data-driven Multi-scale Modeling of Transport in Meso-scale Oceanic Turbulence, Abstracts of Papers Presented to the American Mathematical Society, 1079-60-441, 2012.

Ousmane Boly

AGM 8088 University Cergy Pontoise (PhD student) 8 May Gay Lussac, 95000 Neuville-sur-Oise.

Phone : 07 58 73 87 77. E-mail : boly1ousmane@gmail.com

Master's degree in mathematics, currently in the first year of a thesis in applied mathematics under the supervision of Prs. Doukhan and Prigent « Point processes for random sampling »

01/2019 - 06/2019 Memory on Hawkes process, University of Cergy-Pontoise

12/2018 - 01/2019 Statistical Learning Project, University of Cergy-Pontoise

Construction of a new prediction model for the insolvency of bank customers (work done with R).

02/2018 - 06/2018 Stochastic Differential Equations (Bernt Oksendal), AGM Laboratory Cergy-Pontoise

2019 Master: Applied Mathematics Cergy-Pontoise University

2017 License: Mathematics University Cergy-Pontoise.

Joel E. Cohen

Rockefeller University & Columbia University, 1230 York Avenue, Box 20, New York, NY 10065, USA, +1 212 327 8883, cohen@rockefeller.edu

Professor of Populations; Head of the Laboratory of Populations since July 1975; jointly with Columbia University since July 1995; Abby Rockefeller Mauzé Professor since June 1996; Visiting Scholar, University of Chicago, since July 2013

Research interests: Mathematical population biology, demography, ecology, epidemiology, stochastic processes, linear algebra

Some recent papers:

Meng Xu, Jeppe Kolding, J. E. Cohen (2018) Sequential analysis of fixed-precision sampling of Lake Kariba fishes using Taylor's law. *Canadian Journal of Fisheries and Aquatic Sciences*

Guy J. Abel, J. E. Cohen (2019) Bilateral international migration flow estimates for 200 countries. *Scientific Data* 6(82):1-13.

J. E. Cohen (2019) Sum of a random number of correlated random variables that depend on the number of summands. *The American Statistician* 73(1):56–60.

J. E. Cohen (2019) Every variance function, including Taylor's power law of fluctuation scaling, can be produced by any location-scale family of distributions with positive mean and variance. *Theoretical Ecology*.

Meng Xu, J. E. Cohen (2019) Analyzing and interpreting spatial and temporal variability of US county population distributions using Taylor's law. *PLoS ONE* 14(12):e0226096.

Michael K. Tippett, J. E. Cohen (in press) Seasonality of Taylor's law of fluctuation scaling in all-India daily rainfall. *Climate and Atmospheric Science*, accepted 2019-12-12.

Victor H. de la Peña

Columbia University Department of Statistics. Ph. D. Statistics UCLA 1988

1988 - ... Professor, Department of Statistics. Columbia University.

Inequalities in Probability and Statistics, Self-Normalized Processes; General Dependence Structures, Decoupling, Copula Earth Sciences (Global Warming, El Nino).

National Science Foundation grant DMS-02-21041 : “IGERT: A Joint Graduate Program in Applied Mathematics and Earth and Environmental Sciences.” \$3 million (U.S.) over 5 years. PI's: L Polvani, D Hong Phong, M Visbeck, Victor H de Peña, U Lall (Dec 2002- Nov 2007).

-*Decoupling: From Dependence to Independence* (with E. Gine). Springer-Verlag, 1999.

-Self-Normalized Processes: Limit Theorems and Statistical Applications (with QM Shao and TL Lai) Springer-Verlag, 2009.

-*Inequalities and extremal problems in Probability and Statistics*, with I Pinelis, R Ibragimov, A Osekowski and I Shevtsova. Elsevier, 2017.

-Indian Summer Monsoon and Rainfall and its Link with ENSO and the Indian Ocean Dipole Mode. (with C Ihara, J Kushnir and M Cane) *International Journal of Climatology*, 27, 179-187 (2007).

-Theory and applications of multivariate self-normalized processes (with J Klass and TL Lai). *SPA* 119, 4210-4227 (2009).

-Taylor's law for via ratios, for some distributions without finite mean (with M Brown and J Cohen) *JAP* 54 (3) pp 657-669 (2017).

Gilles Durrieu

French, 2 children (8 and 10 years old), Born on August 5, 1969 Toulouse (France)

LMBA, UBS UMR CNRS 6205, Campus de Tohannic, 56017 Vannes, France and Labex Corail

0033 (0)2 97 01 71 78 gilles.durrieu@univ-ubs.fr, https://www.researchgate.net/profile/Gilles_Durrieu

<https://orcid.org/0000-0003-0375-912X>, <http://web.univ-ubs.fr/lmba/durrieu/>

PEDR/PES since 2006.

-February 2017-January-2019 : Professor at University of New-Caledonia, Nouméa (2 years delegation).

-September 2010- J... : Professor at University of Bretagne Sud

-2014 : Promotion first class professor

-September 1999 – August 2010: Associate professor, University of Bordeaux.

Nonparametric statistics, ecological modeling, robust statistics, global warming, sequential statistics, machine learning, biology.

Some recent publications in ecology:

-Bercu B, Capderou S, Durrieu G (2019) A nonparametric statistical procedure for the detection of marine pollution, *J of Applied Statistics*, 46(1), 119-140.

-Bercu B, Capderou S, Durrieu G (2019) Nonparametric recursive estimation of the derivative of the regression function with application to sea shores water quality, *SISP*, 22(1), 17-40.

-Durrieu G, Grama I, Jaunatre K, Tricot JM (2018) *extremefit*: A Package for extreme quantiles, *Journal of Statistical Software*, 87-12, 1-20.

- Durrieu G, Pham QK, Foltete AS, Maxime V, Grama I, Le Tilly V, Duval H, Tricot JM, Sire O (2016) Dynamic extreme values modeling and monitoring by means of for sea shores water quality biomarkers and valvometry, *Environmental Monitoring and Assessment*, 188, 401-409.
- Durrieu G, Grama I, Pham QK, Tricot JM (2015) Nonparametric adaptive estimator of extreme conditional tail probabilities and quantiles, *Extremes*, 18, 437-478.
- Azais R, Coudret R, Durrieu G (2014) A hidden renewal model for monitoring aquatic systems biosensors, *Environmetrics*, 25, 189-199.

Branda Goncalves

LPTM (PhD student), Université de Cergy-Pontoise, 2 Rue Adolphe Chauvin, 95302, Pontoise Cedex, France +33(0) 641410397, branda.goncalves@outlook.fr

October, 2019-September 2022 : Ph.D Candidate in Applied Mathematics

Research interests :Stochastic Processes Applied to Populations, Markov Chains, Disasters Modelling

Branda GONCALVES and Thierry HUILLET (2019) Scaling features of two special Markov Chains involving total disasters, *Journal of Statistical Physics*.

Master Thesis (2019) Supervised by T HUILLET, E LOCHERBACH : On Markov Chain population processes involving partial or total catastrophes.

Master 1 Thesis (2018) Supervised by E LOCHERBACH :Cox-Ross-Rubinstein Model : Applications to European and American options.

Andreas Heinen

Professor THEMA, Université de Cergy-Pontoise, 33 bd du Port 95011 Cergy-Pontoise Cedex, France.

After a Ph.D. in time series econometrics at the University of California, at San Diego and 6 years on the faculty in the Statistics Department of Universidad Carlos III in Madrid, Andréas Heinen joined UCP in 2010. Early research on integer-valued time series and their use in financial econometrics (*Journal of Empirical Finance*, 2007; *Computational Statistics and Data Analysis*, 2008, 2010). Now mostly working on dependence models for financial time series and cross-sectional data using copulas. Worked on vine copulas for large-dimensional volatility models and developed a multivariate regime-switching copula model that captures swings in the dependence structure between financial time series (*Journal of Financial Econometrics*, 2009). He currently work on the properties of skew normal and skew t copulas, and on copula applications to

- the geographic dependence in regional house prices (Geographic Dependence and Diversification in House Price Returns: the Role of Leverage, with Mi Lim Kim, EHESS),
 - the spatial correlation of mortgage defaults (Spatial Dependence in Subprime Mortgage Defaults, *Journal of Real Estate Finance and Economics*, with Kau, Keenan and Kim, 2019),
 - the contagion in mortgage defaults (Contagion in Subprime Mortgage Defaults: A Composite Likelihood Copula Approach, 2019, with Keenan, Kim and Slawson),
 - the systemic risk in the microfinance sector (Competition, Fast Growth and Commercialization: Systemic Credit Risk in Microcredit Markets: A Copula Approach, 2019, with Hamadi and Juste),
- Modeling of climatic extremes and natural disasters (hurricanes, typhoons), along with their spatial correlations and their effect on human populations. Also questions about the possibility of insuring against such climatic extremes.

Rémy Garnier

AGM 8088 University Cergy Pontoise (PhD student)

54 Sente des Radoub, 33300 Bordeaux, France, remy.garnier@ext-cdiscount.com

Education

2012-2015 Licence Degree, ENS Paris-Saclay, Mathematics and Computer Science

2015-2017 Master Degree, ENS Paris-Saclay, Master of Research in Computer Science

2017-2018 Master Degree, University Paris-Saclay, Statistics and Machine Learning

2018-2021 PhD thesis, University Cergy Pontoise, Times series prediction for E-commerce sales

Activity

2015 Internship, Cachan, France, Effective Algebraic Method for temporised systems

2016 Internship, RWTH, Aachen, Model-Checking in Markovian models

2017 Internship INRIA, Palaiseau, Effective symbolic resolution of differential equations systems
2018-2021 Internship and PhD Cdiseout, Bordeaux, Times series prediction for E-commerce sales
French, native ; English : fluent ; German : advanced

Alquier P, Bertin K, Doukhan P, Garnier R, High dimensional VAR with low rank transition, 2019.
Garnier R, Belletoile A. A multi-series framework for demand forecasts in E-commerce, 2019.

Thierry Huillet

LPTM, CNRS-UMR 8089 University Cergy-Pontoise,
2 Avenue Adolphe Chauvin, 95302, Cergy-Pontoise, FRANCE. Thierry.Huillet@u-cergy.fr
(CNRS Researcher, section 02). Ingénieur Civil des Mines,

- Statistical Models of nucleation-aggregation: coalescence; random energy cascades.
- Renewal phenomena (processes). Hurst phenomenon, waiting time paradox.
- Lévy-Fréchet extremal processes. Stable and semistable laws. Self-similarity.
- Interfaces models of SOS type over a disordered or not substrate. Random walks and wetting.
- Random Point processes of ‘determinantal/permanental/renewal’ types. Correlations structure. Anomalous Fluctuations in disordered systems.
- Random partitions of the interval and circle: “coupon collector” and “birth-day” problems. Statistical Models of “Hard-rods”, “packing” and “parking” configurations. Covering problems. Random deposition.
- Sampling problems from random Dirichlet partition of the interval.
- Random occupancies, urn models.
- Population Genetics as from Wright-Fisher diffusion models including fitness, mutation, dominance. Duality and coalescent. Most recent common ancestor.
- Population growth models subject to catastrophic events.

Recent works (2003-), published or to appear accessible directly on the LPTM website at:

[http : //www.u – cergy.fr/rech/labo/equipes/ptm/publications.html](http://www.u-cergy.fr/rech/labo/equipes/ptm/publications.html) or on the French webserver HAL or at https://www.researchgate.net/profile/Thierry_Huillet/. <https://orcid.org/0000-0001-8434-2160>

William Kengne

THEMA CNRS UMR 8184, Université de Cergy-Pontoise, 33 bd du Port 95011 Cergy Cedex, France
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Sep. 2013 - ... : Assistant Professor in Statistics, Université de Cergy-Pontoise

Research interests ; Change-point detection, causal processes, time series of counts, model selection

Bardet J-M, Kengne, W, Wintenberger O (2012) Detecting multiple change-points in general causal time series using penalized quasi-likelihood. *Electronic Journal of Statistics* 6, 435-477.

Kengne W (2012) Testing for parameter constancy in general causal time-series models. *JTSA* 33, 503-518.

Bardet J-M, Kengne W (2014) Procedure for parameter change in causal time series. *Journal of Multivariate Analysis* 125, 204-221.

Doukhan P, Kengne W (2015) Inference and testing for structural change in general poisson autoregressive models. *Electronic Journal of Statistics* 9, 1267-1314.

Diop ML, Kengne W (2017) Testing parameter change in general integer-valued time series. *JTSA* 38, 880-894.

Naushad Ali Mamode Khan

Mauritian, n.mamodekhan@uom.ac.mu Associate Professor in Statistics, Department of Economics and Statistics, Faculty of Social Sciences and Humanities, University of Mauritius.

Feb 2003-May 2010 PhD in Statistics awarded by the University of Mauritius (Sponsored by TEC), Regression Analysis of Longitudinal data

Aug 1999- July 2002 Degree, Bsc(Hons) Mathematics with Computer Science, University of Mauritius.

Generalized Linear Models. Mathematics for Statistics/Actuaries. Time Series and Longitudinal Data Analysis. Statistical Computing. Computational Methods and Inferential Procedures.

Time Series and Longitudinal Count Data Modelling. Computational Statistics.

Some publications

Jowaheer V, Mamode Khan N, Sunecher Y (2018). A BINAR(1) time-series model with cross-correlated COM–Poisson innovations. *Com. in Stat.-Th. and Meth.* 47-5, 1133-1154

Sunecher Y, Mamode Khan N, Jowaheer V (2017). Estimating the parameters of a BINMA Poisson model for a non-stationary bivariate time series. *Communications in Statistics, Simulation and Computation* 46-9

Sunecher Y, Mamode Khan N, Jowaheer V (2016). Modelling a non-stationary BINAR(1) Poisson process. *Journal of Statistical Computation and Simulation* 86-15.

Mamode Khan N, Jowaheer V (2013). Comparing Joint GQL Estimation and GMM Adaptive Estimation in COM-Poisson Longitudinal Regression Model. *Communications in Statistics - Simulation and Computation* 424, 755-770

Pablo A. Marquet

PhD in Biology. Full Professor: Ecology Department, PUC Chile and Santa Fe Institute. President of the Institute of Complex Systems of Valparaíso. Institute of Ecology and Biodiversity (IEB), the International Laboratory on Global Change (LincGlobal), UC Global Change Center. Author of more than 220 scientific publications including eight books and special issues. Guggenheim Fellowship in 2006, Chilean Academy of Sciences (2013), Associate of the National Academy of Sciences (USA, 2018), Honorary member of the American Academy of Arts and Sciences (2018) Fellow of The World Academy of Sciences (TWAS, 2018) and of the Ecological Society of America (ESA). His main interests are Ecology, Global Change and Complex Systems evolution:

Rebolledo R, Navarrete SA, Kefi S, Rojas, S, Marquet PA (2019). An open-system approach to complex biological networks. *SIAM Journal of Applied Mathematics* 79(2), 619–640.

Freilich MA, Wieters E, Broitman BR, Marquet, PA, Navarrete SA (2018). Species co-occurrence networks: Can they reveal trophic and non-trophic interactions in ecological communities? *Ecology* 99(3): 690-699.

Hochberg ME, Marquet PA, R Boyd, A Wagner (2017) Innovation: An merging focus from cells to societies. *Phil.Trans. R. Soc. B* 20160414. <http://dx.doi.org/10.1098/rstb.2016.0414>

Marquet PA, Espinoza G, Abades SR, Ganz A, and R Rebolledo (2017) On the proportional abundance of species: Integrating population genetics and community ecology. *Scientific Reports* 716815 (2017).

Weinberger VP, Quiñinao C, Marquet PA (2017). Innovation and the growth of human population. *Phil. Trans. R. Soc. B*, 372(1735), 20160415.

Michael Helmut Neumann

Born: December 06, 1962, in Cottbus, Germany. Married, 2 children

1999 Habilitation in Mathematics, Humboldt University, Berlin

Since 08/2006 Full Professor of Mathematical Statistics (W3), Friedrich Schiller University, Jena

04/2002-07/2006 Full Professor of Mathematical Stochastics (C4), Technische Univ. Braunschweig.

10/2000-03/2002 Associate Professor, Mathematical Statistics, C3, University of Cologne.

Neumann, MH (1998). Strong approximation of density estimators from weakly dependent observations by density estimators from independent observations. *Annals of Statistics* **26**, 2014-2048.

Grama IG, Neumann MH (2006). Asymptotic equivalence of nonparametric autoregression and nonparametric regression. *Annals of Statistics* **34**, 1701-1732.

Doukhan P, Neumann, MH (2007). Probability and moment inequalities for sums of weakly dependent random variables, with applications, *Stochastic Processes and their Applications* **117**, 878-903.

Doukhan P, Lang G, Leucht A, Neumann MH (2015). Dependent wild bootstrap for the empirical process. *Journal of Time Series Analysis* **36**, 290-314.

Doukhan P, Neumann MH (2019). Absolute regularity of semi-contractive GARCH-type processes. *Journal of Applied Probability* **56**, 91-115.

Sergio Navarrete

PhD Zoology, Oregon State University and postdoctoral studies University of California, Santa Barbara.

Currently: Full Professor at Pontificia Universidad Católica de Chile and

Director of Estación Costera de Investigaciones Marinas (ECIM), Las Cruces +5635 243 1670, snavarrete@bio.puc.cl cited 8700 times on Google Scholar

Conicyt Recognition for the Best Project in the Fondecyt Regular competition (2007). Frontier Science program, Chilean Academy of Sciences (2004).

The lab is dedicated to the study of the dynamics and diversity of coastal marine communities and the influence that oceanographic and climatic processes have on them from local scales to regional scales.

Duffy, J. E., J. S. Lefcheck, R. D. Stuart-Smith, S. A. Navarrete, and G. J. Edgar. 2016. Biodiversity enhances reef fish biomass and resistance to climate change. **PNAS** 113:6230-6235.

Kéfi, S., V. Miele, E. A. Wieters, S. A. Navarrete, and E. L. Berlow. 2016. How Structured Is the Entangled Bank? The Surprisingly Simple Organization of Multiplex Ecological Networks Leads to Increased Persistence and Resilience. **Plos Biology** 14:DOI:10.1371/journal.pbio.1002527

Kéfi, S., E.L. Berlow, E. A. Wieters, S. A. Navarrete, O. L. Petchey, S. A. Wood, A. Boi, L. N. Joppa, K.D. Lafferty, R.J. Williams, N.D. Martinez, B.A. Menge, C.A. Blanchette, A. Iles, U. Brose. 2012. More than a meal: Integrating non-feeding interactions into food webs. **Ecology Letters**, 15:291-300

Stuart-Smith, R.D., A. Bates, J.S. Lefcheck, E. Duffy, C. Baker, R. J. Thomson, J.F. Stuart-Smith, N.A. Hill, S.J. Kininmont, L. Airolidi, M.A. Becerr, S. J. Campbell, T.P. Dawson, S.A. Navarrete, G.A. Sole, E.M A. Strain, T.J. Willis, G.J. Edgar 2013. Integrating abundance and functional traits reveals new global hotspots of fish diversity. *Nature*, 501: 539-542

Thi Hien Nguyen

Lecturer, Department Mathematics, CY Tech Paris University, Avenue du Parc, 95000 Cergy, France
tnn@eisti.eu, + 33 6 38 63 66 81

2013-2017 : PhD Mathematics, University of Brest, France

2012-2013 : Master 2, Mathematics and applications at ENS Cachan, Paris, France

2011-2012 : Master 1, Mathematics at Hanoi National University of Education (HNUE), Hanoi, Vietnam

2007-2011 : Bachelor, Mathematics at HNUE, Vietnam

Research interests : Spectral theory of diffusion incompressible mediums, Optimal transport application for studying the heat flow, Statistical process control

with B Franke, The speed of relaxation for diffusion with drift satisfying exponential decay of correlations, *Proc. Amer. Math. Soc.* 146- 6, 2425-2434. 3(2018)

with KP Tran P Castagliola, A Cuzol, The Efficiency of VSI Exponentially Weighted Moving Average median, *Proc 24th ISSAT Int Conference on Reliability, Quality in Design* 203-208, Toronto (2018).

with KP Tran, P Castagliola, A Cuzol, Design of a Variable Sampling Interval EWMA Median Control Chart, *Int. Journal of Reliability, Quality and Safety Engineering* 26-5 1950021 (2019)

with QT Nguyen, KP Tran, HD Nguyen, Variable sampling interval Shewhart control charts for monitoring the Multivariate Coefficient of Variation, *Applied Stochastic Models in Business and Industry*, John Wiley & Sons, 35(5), 1253-1268 (2019).

with KP Tran, KD Tran, HD Nguyen LH, Nguyen, TN Nguyen, One-Sided Synthetic-RZ control charts: a new method for anomaly detection, 6th NAFOSTED Conference (NICS) (2019).

Jean-Luc Prigent

Professor in Economics and Finance at University of Cergy-Pontoise, and member of ThEMA (UMR CNRS 8184), Department of Economics and Business and of Labex MMEDII (ANR11-LBX-0023-01).

Research Interests : Portfolio optimization; performance measurement; asset pricing and hedging; financial econometrics; risk management; decision theory; real options; corporate finance.

Scientific consultant for financial institutions. Author of 5 books and of about 80 published papers, as:

1) Hedging global environment risks: An option based portfolio insurance, *Automatica*, 44(6), 1519-1531, 2008. (with A. de Palma).

- 2) On the optimality of funding and hiring/firing according to stochastic demand: the role of growth and shutdown options. *Economic Modelling*, 40, 410-422, 2014. (with N. Letifi).
- 3) A dynamic autoregressive expectile for time-invariant portfolio protection strategies. *Journal of Economics Dynamics and Control*, 46, 1-29, 2014. (with B. Maillet and B. Hamidi).
- 4) Risk management of time varying floors for dynamic portfolio insurance. *European Journal of Operational Research*, 269(1), 363-381, 2018. (with Hachmi Ben Ameur).
- 5) On the optimality of path-dependent structured funds: The cost of standardization, *European Journal of Operational Research*, 277, 333-350, 2019. (with Philippe Bertrand).

Rolando Rebolledo

Mathematical Engineer by the Universidad de Chile “Doctorat d’État ès-Sciences” at the University Pierre et Marie Curie (Paris VI). Full Professor at the University Paris-Sud and at the Universidad Católica de Chile in Santiago from 1981 until 2016. Full Professor at the Universidad de Valparaíso. Founding member of the Mathematical Society of Chile and has presided over it frequently. Member of the Board of the Bernoulli Society; Société Mathématique de France; American Mathematical Society; European Mathematical Society. Development and Exchange Commission of the International Mathematical Union.

Research: Open System Dynamical Models through Stochastic Analysis in both classical and quantum versions. Main results on limit theorems for stochastic processes. Recently contributed to the Theory of Quantum Markov Semigroups and has since 2010 a fruitful collaboration with Pablo Marquet’s team. Scientific production includes 100 articles published in international journals and seven research books.

1. Sur les applications de la Théorie des Martingales à l’étude statistique d’une famille de processus ponctuels. *Proc Col. Stat. Grenoble. LNM 636* (1978), 27-70.
2. La Méthode des Martingales appliquée à l’étude de la convergence en loi de Processus. *Bull. Soc. Math. de France, Mémoire 62* (1979), 125 pages.
3. Central Limit Theorems for Local Martingales. *Zeit. für Wahr. verw. Gebiete* 51 (1980), 269-286.
- with PA Marquet, G Espinoza, SR Abades, A Ganz, R Rebolledo: On the proportional abundance of species: Integrating population genetics and community ecology. *Nature-Scientific Reports*, 2017, 7:16815.
4. with C Lizama. Semigroup approach to fractional Poisson processes. *Compl. Anal. Oper. Th.* 12-3 (2018), 777–785.
5. with Sergio A Navarrete, Sonia Kéfi, Sergio Rojas, Pablo A Marquet: An Open-System Approach to complex biological networks, *SIAM Journal of App. Math.*, 2019, 619-640.

Eric M. Renault

Department of Economics, University of Warwick, Coventry, West Midlands, CV4 7AL, United Kingdom
 Phone: +44 24 7652 3935, Email: eric.renault@warwick.ac.uk
 Professor of Economics, University of Warwick, since January 2019
 Visiting Professor, Monash University, Melbourne, since May 2015,
 Member of Stevanovich Center for Financial Mathematics, University of Chicago, since February 2016,
 IUF Junior member

Research interests: Econometric Theory, Time Series, Financial Econometrics. Some recent papers:

- 1 “Indirect Inference With(out) Constraints” (with D. Frazier), *Forthcoming Quantitative Economics*, 2019.
2. “Score Tests in GMM: Why Use Implied Probabilities?” (with S. Chaudhuri), *J. of Econometrics*, 2019.
3. “Testing Identification Strength” (with B. Antoine), *Forthcoming Journal of Econometrics*, 2019.
4. “Pseudo-True SDFs in Conditional Asset Pricing Models” (with B. Antoine and K. Proulx), *Invited lecture with Discussion, Journal of Financial Econometrics*, September 2018, p 1-59.
5. “Indirect Inference with Endogenously Missing Exogenous Variables” (with S. Chaudhuri and D. Frazier), *Journal of Econometrics*, 205:1, July 2018, p 55-75.

6. “Identifying Contagion” (with M. Dungey), J. of Applied Econometrics, 33:2, March 2018, p 227-250.

Yahia Salhi

ORCID: 0000-0001-7221-8146 Date of birth: 21st of July, 1984, French, salhi.yahia.free.fr

2013 PhD, actuarial sciences, applied maths, SAF - ISFA, Lyon.

2018 Assistant professor, ISFA, Lyon.

2018 Best paper award in the International Congress of Actuaries / Germany

-Y. Salhi, P.-E. Thérond, Age-Specific Adjustment of Graduated Mortality, ASTIN Bulletin (2018) 48(2) 543-569

-N. El Karoui, S. Loisel, Y. Salhi, Minimax Optimality in Robust Detection of a Disorder Time in Poisson Rate, The Annals of Applied Probability (2017) 27(4), 2515-2538

-P. Doukhan, J. Rynkiewicz, D. Pommeret, Y. Salhi, A Class of Random Field Memory Models for Mortality Forecasting, Insurance: Mathematics and Economics (2017) 77:97-110

-F. Barsotti, X. Milhaud, Y. Salhi, Lapse Risk in Life Insurance: Correlation and Contagion Effects Among Policyholders' Behaviors, Insurance: Mathematics and Economics (2016) 71:317-331

-H. Bensusan, N. El Karoui, S. Loisel, Y. Salhi, Partial splitting of longevity and financial risks: The life nominal chooser swaption, Insurance: Mathematics and Economics (2016) 68:61-72

Lionel Truquet

Associate Professor, ENSAI-Campus Ker-Lann, Rue Blaise Pascal BP 37203, 35172 BRUZ cedex,

e-mail : lionel.truquet@ensai.fr

Specialist of time series analysis and dependent data

K Fokianos, L Truquet (2019). On categorical time series models with covariates. SPA 129(9):3446–3462.

L Truquet (2017). Parameter stability and semiparametric inference in time varying auto-regressive conditional heteroscedasticity models. JRSS B 79(5):1391-1414.

L Truquet (2018). Efficient semiparametric estimation in time-varying regression models. Statistics 52(3):590-618. L Truquet (2019) Local stationarity and time-inhomogeneous markov chains. AoS 47(4):2023-2050.

L Truquet (2019). Root-n consistent estimation of the marginal density in semi-parametric autoregressive time series models. Bernoulli 25(3):2107–2136.