

Victor Planas-Bielsa

CV

victor.planas@gmail.com
+33 (0) 6 43 78 47 60

Nationality: Spanish
Gender: Male
Date of birth: 12th March 1974
Nice, France

SENIOR DATA SCIENTIST with Applied Mathematics and Theoretical Physics background. Experience in **quantitative modeling** and research in different industries and fields. Currently working on **machine learning**, **statistical analysis** and **modeling** of ecological and biological processes using Python and R.

Current Position

2016 - Present

Senior Scientist

Scientifique Center of Monaco, Polar Bology Department.

- Research in Polar biology department, mainly focused on quantitative models for population dynamics.
- Supervision of data acquisition process from field to lab. Definition of Data Bases, functionalities and re-design of proprietary analytic software in python.
- 3 moths field experience in Antarctica.

Previous Professional Experience

2014 - 2015

Applied Mathematics Department

International University in Geneva, Switzerland.

- Coordination of content and curriculum for finance and quantitative methods courses.
- Definition of teaching and learning outcomes.
- Processes and quality controls for academic standards and hiring of new professors.

2011 - 2015

Professor Statistics, Data Analysis & Finance

International University in Geneva, Switzerland.

- Applied Mathematics
- Statistics and Data Analysis
- Quantitative Decision Methods
- Financial Management

2009 - 2014

Producer and Account director

ANV Production (Geneva)

- Founder partner of a visual communication company based in Geneva.
- Responsible for strategy of group.
- Account director for institutional and B2B client and large accounts (project manager)

2007 - 2008

Quantitative Analyst

Alpstar Management-Geneva, Switzerland

- Assisting with data analysis to the head economist in preparing global macro scenarios
- Development of risk models for the Equity desk (VBA, Matlab, and R)
- Research of quantitative models for commodity investments.

2005 - 2008

Research Director

Hedge Funds Research Institute, Monaco

The HFRI was a research centre associated to the International University of Monaco and sponsored by the Hedge Fund Alpstar Management. I was the director of an interdisciplinary group with expertise in macroeconomics, econometrics, IT, Mathematics and Finance doing exclusive applied research for our sponsors.

- Improve the back-testing procedure of the quantitative desk,
- Validate the models of the derivatives desk,
- Identify the global trends in hedge fund investing, and monitor global capital flows.
- Communicate results to the board (in non-technical terms) and make investment recommendations.

2004 - 2007

Professor of Mathematics and Finance

International University of Monaco (IUM), Monaco.

From 2004 to 2008 I taught in the Master of Financial Engineering. Some relevant topics that I delivered in English were:

- Asset Pricing, and Advanced derivatives,
- Advanced VBA for Finance,
- Probability and Stochastic processes,
- Quantitative Strategies and Modeling,

Published Papers

- Courtial L, Planas Bielsa V, Houlbrèque F, Ferrier-Pagès C (2018). Effects of ultraviolet radiation and nutrient level on the physiological response and organic matter release of the scleractinian coral *Pocillopora damicornis* following thermal stress. *PLOS one* (*in press*).
- Kriesell H. , Planas-Bielsa V. et al. [2018] Sex identification in King Penguins *Aptenodytes patagonicus* through morphological and acoustic cues. *IBIS*. doi: 10.1111/ibi.12577
- Hilmi N.,Safa A., Planas-Bielsa, V. and Cinar, M. [2017] Look at the phenomenon of ocean acidification and what it could mean for MENA: is the environment of the MENA region already ruined?, *The Middle East in London*, February – March 2017, Volume 13 - Number 2.

- Le Bohec, C. and Planas-Bielsa, V. [2017] Objets connectés et embarqués sur les animaux sauvages. Book Chapter in "Le Big Data à Decouvert" sous la direction de Mokrane Bouzeghoub et de Rémy Mosseri, CNRS Editions.
- Ortega, J.-P., Planas-Bielsa, V., and Ratiu, T. S. [2005] Asymptotic and Lyapunov stability of Poisson equilibria. *Journal of Differential Equations*, 214, pp. 92-127.
- Planas-Bielsa, V. [2004] Point reduction in almost symplectic manifolds. *Reports on Mathematical Physics*. Issue 3, pp. 295-308.
- Ortega, J.-P. And Planas-Bielsa, V. [2004] Dynamics in Leibniz manifolds. *Journal of Geometry and Physics*. Vol. 52 pp.1-27.

Conference Papers/presentations

- « Optimal Response Indices : discovering complex relationship in ecology beyond the GLM. » Presentation at the National French Committee for Arctic and Antarctic Research. April 2018. Victor Planas-Bielsa, Norith Eckbo, Celine Le Bohec
- « Evaluating the socioeconomic impacts of climate change and ocean acidification related disasters in the MENA region », Conférence internationale MEEA à Doha (Mars 2016). Nathalie Hilmi, Victor Planas-Bielsa, Alain Safa, Mine Cinar.
- « l'évaluation des impacts socio-économiques des catastrophes liées au changement climatique et à l'acidification des océans dans la région MENA » Conférence ATM (Lille, juin 2016) Nathalie Hilmi, Victor Planas-Bielsa, Alain Safa, Mine Cinar.
- « Is the Environment of the MENA Region already ruined? » Conférence SOAS (London, octobre 2016, Nathalie Hilmi, Alain Safa, Victor Planas-Bielsa, Mine Cinar.
- "Ruin Probability Models and the Environment of the MENA and MED Region", ASSA-MEEA Ankara (mai 2017) Nathalie Hilmi, Alain Safa, Victor Planas-Bielsa, Mine Cinar.

Working Papers and Research Reports

- Planas-Bielsa, V. Patras, F. . [2007] The impact of DB Pension schemes management on corporate financing costs. *HFRI Working papers*.
- Planas-Bielsa, V. [2007] Dynamics of High Yield Bonds. A model for yield curve arbitrage *HFRI Working paper/*
- Planas-Bielsa, V. Cosmao, J. and Moscato, G. [2007] Can firms match risk perception and return expectation of stockholders? *HFRI Working paper*.
- Planas-Bielsa, V. [2005] A new family of numerical schemes for stochastic differential equations. . *HFRI Working papers*.
- Planas-Bielsa, V. [2005] The relationship between stochastic differential equations and non commutative geometry. . *HFRI Working papers*.
- Planas-Bielsa, V. [2004] The term structure of hazard rates. *HFRI Working papers*.
- Planas-Bielsa, V. [2004] A note about term structures. *HFRI Working papers*.

Conferenced Organized

- Bridging Mathematics, Natural Sciences, Social Sciences, and Finance. Monaco 9-11 April 2008.
- Bridging Physics, Finance, and Sociology, Monaco 5-7 April 2007.
- Young European Researches in Mechanics meeting. Lisbon, 13-17 January 2004.

Education

2001 - 2004

PhD Mathematics

Institut Non Linéaire de Nice, France

Title. *Leibniz manifolds and Lyapunov stability of Poisson equilibria.*

Mention *Trés Honorable*

1996 - 2000

B. Sc. + M. Sc. Physics

(5 honors and 7 excellent)

2000-2001 Università degli studi Federico II. Naples, Italy. (Erasmus Grant)

1996-2000. Universidad de Zaragoza. Spain.

Visiting Positions

Dept of Mathematics & Statistics. University of Surrey. (UK)

Marie Curie training Fellowship - 6 months - 2002

Technical Skills

- Very strong mathematical background. Specialized in statistics and data analysis.
- Working knowledge of several programming languages (Python, R, Matlab)
- Deep knowledge of Machine Learning (theory and applications)
- Good understanding of B2B communication processes.

Soft Skills

- Very good communication skills. Able to quickly identify the audience and adapt the message to it.
- 15+ years experience in directing interdisciplinary groups and reporting results to non technical stakeholders.
- Creative and problem solving skills.
- Like to work under pressure and enjoy dealing with challenging projects.
- Very fast learner, like to explore lateral fields to improve my understanding of the main task.

Language skills

Spanish:	Native
English:	Fluent
French:	Fluent
Italian:	Advanced

Interests

Filmmaking, Music, Theatre, Education.
