PERSONAL INFORMATION	Pier Giuseppe Giribone
WORK EXPERIENCES	
September 2009 – Current	Financial Administration (Carige Bank - Genoa) Financial Engineer (Research and Development)
November 2017 – Current	University of Genoa – Department of Economics Adjunct professor in: "Software R" (2019/2020) "Matlab" (2017/2018 and 2018/2019) "Financial Risk Management" (2018/2019) Lecturer in: "Financial Analysts 1" (2016/2017 and 2017/2018) "Financial Analysts 2" (2017/2018) "Risk Management" (2017/2018) Visiting PhD Lecturer in: Forecasting using Dynamic Neural Networks (University of Leon, June 2020)
EDUCATION & CERTIFICATES	
November 2017 - 2021	Doctor of Philosophy (PhD) in Economics – University of Genoa (XXXIII Cycle) Exams: Macroeconomics 3 [19 th December 2018] Political Economy 1+2 [10 th December 2018] Macroeconomics 2 [11 th September 2018] Macroeconomics 1 [27 th July 2018] Economic History and History of Economic Thought [27 st May 2018] Game Theory [27 th March 2018] Econometrics [15 th Febbruary 2018] Mathematics for Economists 1+2 [19 th December 2017] Microeconomics 1+2 [6 th December 2017]
28 th November 2019	Certified International Wealth Manager (CIWM®) – AIAF Financial School Exams: Final Level 1 [8 th March 2019] Wealth Management Final Level 2 [20 th September 2019] Wealth Planning, Financial Assets and Taxation of Financial Products
13 th April 2017	Certified Environmental Social and Governance Analyst (CESGA®) – EFFAS School ESG (Environmental Social and Governance) Final Exam: [10 th March 2017] Module 1: Introduction – Link between ESG performance and financial performance Module 2: Fundamentals – Definitions, strategies, market driver Module 3: Investment process chain – General integration of ESG in the investment process Module 4: ESG integration and valuation – Identification, measurement and integration of ESG in the valuation Module 5: A multi asset framework – Asset allocation, green bonds, impact investing Module 6: Reporting – Analysis of different reporting standards
14 th December 2016	Banking and Financial Diploma (B&FD) – ABI (Italian Banking Association) Exams: Banking Management [13 th December 2016]

	Risk Management [18 th October 2016] Private Banking and Asset Management [21 st July 2016] Financial Investments and Markets [24 th May 2016] Retail and Corporate Lending [25 th March 2016] Financial Intermediation [19 th January 2016]
30 th November 2015	Certified International Investment Analyst (CIIA®) – AIAF Financial School Exams: Final Level 1[2015] Corporate Finance Economics Financial accounting and statement analysis Equity valuation and analysis Final Level 2 [2015] Fixed Income Valuation and Analysis Derivative Valuation and Analysis Derivative Valuation and Analysis Portfolio Management National [2014]: Regulation Ethics Taxation Foundation 1 [2014]: Equity valuation and analysis Financial Accounting and Statement analysis Corporate Finance Foundation 2 [2013]: Fixed Income Valuation and Analysis Economics Foundation 3 [2013]: Derivative Valuation and Analysis Portfolio Management
19 th December 2013	Doctor of Philosophy (PhD) in Engineering Mathematics – University of Genoa (XXV Cycle) Exams: Mathematical instruments for economics [23 rd May 2012] Simulation and modeling [12 th March 2012] Numerical methods for Partial Differential Equations [7 th December 2011] Response Surface Methodology in simulation [5 th July 2010] Partial Differential Equations and applications [28 th May 2010] Stochastic Differential Equations and applications [24 th May 2010] Thesis: "Study and implementation of MSPE technique for a reliable control of convergence in stochastic models for option pricing" Supervisor: prof. R. Mosca, Short Dissertation: "Metaheuristics for the individuation of optimal regions in complex industrial simulators" Supervisor: prof. R. Mosca.
31 st July 2009	Chartered Engineer – Order of Engineers License: A1767
19 th December 2008	Master's Degree in Industrial Engineering and Management – University of Genoa Thesis: "Study and implementation of mathematical models in banking management: methodologies for pricing financial instruments" Supervisor: prof. R. Mosca, Assistant Supervisor: Dr. A. Currao (CARIGE) and Dr. S. Ventura (CARIGE). Short Dissertation: "Advanced researches on algorithms for the individuation of optimal regions in complex industrial simulators" Supervisor: prof. R. Mosca. Final mark: 110 out of 110 cum laude.
3 rd November 2006	Bachelor's Degree in Industrial Engineering and Management – University of Genoa Thesis: "Methodologies for the identification of optimal regions in stochastic and event-driven simulation of complex industrial plants" Supervisor: prof. R. Mosca.

Final mark: 110 out of 110 cum laude.

2 nd July 2003	High School – Orazio Grassi – Savona Scientific High School diploma. Final mark: 100/100 (first class honours).
PROFESSIONAL COURSES	
September-November 2019	Public Speaking & Team Coaching A professional course for improving soft-skills organized by "CARIGE Banking Academy"
15 th – 20 th July 2019	 "Machine Learning Algorithms for Econometricians" – SldE Summer School A Summer School organized by SldE (Italian Econometric Association) which took place at the University Residential Center of Bertinoro. The lecturers were Prof. Arthur Charpentier (University of Quebec at Montreal, Canada) and Prof. Emmanuel Flachaire (AMSE, Aix-Marseille University, France). Director of the School: Juri Marcucci, PhD (Bank of Italy). Main Topics: GAM (Generalized Additive Models), LASSO (Least Absolute Shrinkage and Selection Operator) Random trees, Random forests, boosting, SVM (Support Vector Machine) Neural Nets, Deep Learning, Autoencoder, Nonlinear PCA (Principal Component Analysis) Cross-validation, bootstrap, optimization routines, causality and time series analysis
17 th – 22 nd June 2019	 "Ideas and theory in econometric time series" – SIdE Summer School A Summer School organized by SIdE (Italian Econometric Association) which took place at the University Residential Center of Bertinoro. The lecturers were Prof. Søren Johansen and Prof. Anders Rahbek (University of Copenhagen). Director of the School: Juri Marcucci, PhD (Bank of Italy). Main Topics: Cointegration and adjustment in a common trends causal model and the role of weak exogeneity. Optimal hedging and cointegration in the presence of heteroscedastic errors. Bootstrap based inference in stationary and non-stationary autoregressive models. Models, Methods and Big Data
2018	Train the trainer A course for obtaining the corporate certificate for teaching in the "CARIGE Banking Academy"
24 th – 28 th July 2017	Workshop in Computational Econometrics – SEEC 2017 A Ph.D. Summer School organized by the University of Salento – Faculty of Economics. Main Topics: - Matlab and Python languages - Vector Autoregression (VAR models) - State Space Models and Kalman Filter - DSGE (Dynamic Stochastic General Equilibrium) models
5 th – 9 th June 2017	 "Machine Learning: a computational intelligence approach" – MLCI 2017 A Ph.D. Summer School organized by the University of Genoa – Faculty of Engineering. Main Topics: Fuzzy sets and Fuzzy Logic Fuzzy, Spectral and Kernel clustering Artificial Neural Networks: Multi-layer feed-forward networks and autoencoders Restricted Boltzmann Machines and Deep Learning
2015	Financial and Business English Course An advanced English course
2014	EMEA Market Forum – Barcelona 2014 International Meeting of financial software organized by Misys
2013	Business Continuity for Critical Resources A course for system administrators
2012	Object-Oriented Programming

	A course for developing professional software using C# (DOT NET Framework)
PUBLICATIONS	
May 2020	Risk Management Magazine, Vol. 15, N. 2 Title: "Study and implementation of a pricing system for the risk analysis of the EAKO (European American Knock-Out option) structured product". Authors: M. Fabbri, P. G. Giribone
March 2020	Risk Management Magazine, Vol. 15, N. 1 Title: "Prospective estimation of financial and risk measures using dynamic neural networks: an application to the US market". Authors: C. Decherchi, P. G. Giribone
December 2019	International Journal of Financial Engineering, Vol.6, N. 4 Title: "Design, implementation and validation of advanced lattice techniques for pricing EAKO – European American Knock-out option". Authors: M. Fabbri, P. G. Giribone
September 2019	Risk Management Magazine, Vol. 14, N. 3 Title: "Design, validation and implementation of an advanced lattice model for pricing a Flexible Forward on currencies". Authors: P. G. Giribone, P. Raviola
August 2019	Risk Management Magazine, Vol. 14, N. 2 Title: "Design of quantitative measures for monitoring financial risks in the emerging market of Guarantees of Origin". Authors: A. Bottasso, P. G. Giribone, M. Martorana
April 2019	Risk Management Magazine, Vol. 14, N. 1 Title: "Option pricing using Radial Basis Functions: an application to Garman-Kohlhagen framework". Authors: S. Fioribello, P. G. Giribone
March 2019	Italian Association of Financial Industry Risk Managers (AIFIRM) Position Paper N. 14 Title: "Artificial Intelligence: Applications of Machine Learning and Predictive Analytics in Risk Management". Authors: S. Bonini, G. Caivano, P. Cerchiello, P. G. Giribone
January 2019	Springer – Chapter 22 in "Neural Advances in Processing Nonlinear Dynamic Signal" Title: "Yield curve estimation under extreme conditions: do RBF networks perform better?" Authors: A. Cafferata, P. G. Giribone, M. Neffelli, M. Resta
December 2018	International Journal of Financial Engineering, Vol.4, N. 4 Title: "Combining robust Dynamic Neural Networks with traditional technical indicators for generating mechanic trading signals". Authors: P. G. Giribone, S. Ligato, F. Penone
December 2018	Risk Management Magazine, Vol. 13, N. 3 Title: "Modeling seasonality in inflation indexed swap through machine-learning techniques: analysis and comparison between traditional methods and neural networks Authors: O. Caligaris, P. G. Giribone
December 2018	International Journal of Financial Engineering, Vol.4, N. 4 Title: "Design of an artificial Neural Network battery for an optimal recognition of patterns in financial time series". Authors: S. Fioribello, P. G. Giribone
August 2018	Risk Management Magazine, Vol. 13, N. 2 Title: "Implementation of AFO technique for the estimation of GARCH(1,1) parameters: performance comparison with traditional solvers". Authors: P. G. Giribone
April 2018	Risk Management Magazine, Vol. 13, N. 1

	Title: "Accounting for derivatives in non-financial companies in light of Legislative Decree no. 139/2015 and of accounting standard OIC 32". Authors: M. Fabbri, P. G. Giribone
December 2017	Risk Management Magazine, Vol. 12, N. 3 Title: "Volatility surface reconstruction through auto-associative neural networks: a case-study based on Nonlinear Principal Component Analysis". Authors: O. Caligaris, P. G. Giribone, M. Neffelli
November 2017	International Journal of Circuits, Systems and Signal Processing, Vol. 11 Title: "An innovative nature-inspired heuristic combined with Response Surface Methodology to find the optimal region in Discrete Event Simulation Models". Authors: P. G. Giribone, L. Cassettari, M. Mosca, R. Mosca
September 2017	International Journal of Financial Engineering, Vol.4, N. 2 Title: "Negative interest rates effects on option pricing: Back to basics?". Authors: G. Burro, P. G. Giribone, S. Ligato, M. Mulas, F. Querci
September 2017	Risk Management Magazine, Vol. 12, N. 2 Title: "Non supervised learning paradigms for neural networks in financial markets: design of a self- organizing maps to track market anomalies". Authors: A. Cafferata, P. G. Giribone
June 2017	Modern Economy, Vol. 9, N. 6 Title: "The effects of negative nominal rates on the pricing of American Calls: some theoretical and numerical insights". Authors: A. Cafferata, P. G. Giribone, M. Resta
March 2017	AIFIRM Magazine – Financial Industry Risk Managers Association, Vol. 12, N. 1 Title: "Fuzzy C-means clustering as automatic algorithm for the detection of market anomalies". Authors: P. G. Giribone, O. Caligaris, S. Fioribello
March 2017	International Journal of Financial Engineering, Vol.4, N. 1 Title: "The effects of negative interest rates on the estimation of option sensitivities: the impact of switching from a log-normal to a normal model". Authors: P. G. Giribone, S. Ligato, M. Mulas
September 2016	AIFIRM Magazine – Financial Industry Risk Managers Association, Vol. 11, N. 3 Title: "Fuzzy Logic implementation for the optimal portfolio management: modeling an investor risk aversion through soft-computing techniques". Authors: P. G. Giribone, O. Caligaris, S. Fioribello, S. Ligato
August 2016	International Journal of Financial Engineering, Vol.3, N. 2 Title: "Flexible-Forward pricing through Leisen-Reimer trees: implementation and performance comparison with traditional Markov chains" Authors: P. G. Giribone, S. Ligato
June 2016	AIAF (Italian Association of Financial Analysts) Magazine, Vol. 99 Title: "Consideration on the current state of option pricing having Euribor as underlying parameter" Authors: P. G. Giribone, S. Ligato
June 2016	AIFIRM Magazine – Financial Industry Risk Managers Association, Vol. 11, N. 2 Title: "Design of a robust calibration of the Hull-White stochastic tree through the implementation of global search heuristic" Authors: P. G. Giribone, S. Fioribello, S. Ligato
March 2016	Applied Mathematical Sciences, Vol. 10, N. 20 Title: "Attraction Force Optimization (AFO): a deterministic nature-inspired heuristic for solving optimization problems in stochastic simulation" Authors: P. G. Giribone, L. Cassettari, S. Fioribello, I. Bendato
October 2015	Applied Mathematical Sciences, Vol. 9, N. 124 Title: "Monte Carlo method for pricing complex financial derivatives: an innovative approach to the control of convergence" Authors: P. G. Giribone, R. Mosca, L. Cassettari, I. Bendato

September 2015	AIFIRM Magazine - Financial Industry Risk Managers Association, Vol. 10, N. 3 Title: "Modeling the yield curves through machine-learning techniques: analysis and comparison between traditional regressive methods and neural networks" Authors: P. G. Giribone, O. Caligaris
June 2015	AIFIRM Magazine - Financial Industry Risk Managers Association, Vol. 10, N. 2 Title: "Application of a feed-forward Neural Network for the reconstruction of volatility surfaces" Authors: P. G. Giribone, S. Ligato, O. Caligaris
June 2015	International Journal of Financial Engineering, Vol. 2, N.2 Title: "Option pricing via Radial Basis Functions: Performance comparison with traditional numerical integration scheme and parameters choice for a reliable pricing" Authors: P. G. Giribone, S. Ligato
December 2014	Newsletter AIFIRM – Risk Management Magazine, Vol. 9, N.4 Title: "Proposal and validation of a new heuristic applied to the calibration of stochastic interest-rate trees: the Attraction Force Optimization (AFO)" Authors: P. G. Giribone, S. Ligato, S. Fioribello
June 2014	ASSIOM Forex – The Financial Markets Association – Journal Title: "Study and implementation of the Credit Value Adjustment in an automatic pricing framework" Authors: P. G. Giribone, P. Raviola, S. Ligato
June 2014	Newsletter AIFIRM – Risk Management Magazine, Vol. 9 N.1 Title: "Designing a reliable control of the error committed by the introduction of low-discrepancy sequences in a Monte Carlo pricing framework". Authors: P. G. Giribone, S. Ligato
July 2013	MathWorks – User Story Title: "Carige Bank integrates a MATLAB based valuation library with its enterprise pricing and risk platform". Authors: P. Raviola, S. Ligato, P. G. Giribone
June 2013	Newsletter AIFIRM – Risk Management Magazine, Vol. 8 N.2 Title: "Methodologies for improving the rate of convergence in Monte Carlo simulations: Analysis and implementation in a pricing framework". Authors: P. G. Giribone, S. Ligato
June 2012	Newsletter AIFIRM – Risk Management Magazine, Vol. 7 N.2 Title: "Bias correction using conditional montecarlo technique: analysis and implementation in an automatic pricing system". Authors: P. G. Giribone, S. Ligato, S. Ventura
December 2011	Newsletter AIFIRM – Risk Management Magazine, Vol. 6 N.4 Title: "Critical analysis of methods for the generation of valid correlation matrix: Theory and comparison in pricing systems based on Monte Carlo". Authors: P. G. Giribone, S. Ligato
March 2011	Newsletter AIFIRM – Risk Management Magazine, Vol. 6 N.1 Title: "Study of convergence in discrete multinomial equity pricing models: theory and applications for controlling errors". Authors: P. G. Giribone, S. Ventura
December 2010	Applied Mathematical Sciences, Vol.4, N. 76 Title: "The stochastic analysis of investments in industrial plants by simulation models with control of experimental error: theory and application to a real business case". Authors: L. Cassettari, P. G. Giribone, M. Mosca, R. Mosca
March 2010	Newsletter AIFIRM – Risk Management Magazine, Vol. 5 N.1 Title: "MSPE and Monte Carlo pricing method: techniques of convergence in financial models". Authors: R. Mosca, L. Cassettari, P. G. Giribone
CONFERENCE PROCEEDINGS	

10 th June 2020	International Conference on Environment and Electrical Engineering - EEEIC 2020 Title: "Electricity Spot Prices Forecasting for MIBEL by using Deep Learning: a comparison between NAR, NARX and LSTM networks ". (Technical Area: Regulation and Electricity Markets) Authors: M. de Simon-Martin, S. Bracco, E. Rosales-Asensio, G. Piazza, F. Delfino, P. G. Giribone
5 th February 2020	Labour Economics Conference – University of Pisa Title: "The dynamics of Working Hours and Wages under Implicit Contracts". Authors: M. Guerrazzi, P. G. Giribone
24 th October 2019	SIE (Italian Economist Association) Annual Scientific Meeting – Palermo Title: "The dynamics of Working Hours and Wages under Implicit Contracts". Authors: M. Guerrazzi, P. G. Giribone
24 th July 2019	Accounting, Finance and Economics Conference – University of Waikato (New Zealand) Title: "The dynamics of Working Hours and Wages under Implicit Contracts". Authors: M. Guerrazzi, P. G. Giribone
11 th April 2019	XIV Convention AIFIRM (Italian Association of Risk Management) – Milan Title: "Artificial Intelligence in Risk Management: Machine Learning methods in application to market risk". Authors: A. Agosto, P. G. Giribone
6 th December 2018	XIV Convention AIFIRM (Italian Association of Risk Management) – Milan Title: "Artificial Intelligence: Applications of Machine Learning and Predictive Analytics in Risk Management". Authors: S. Bonini, G. Caivano, P. Cerchiello, P. G. Giribone
25 th January 2018	XIX Quantitative Finance Workshop, QFW2018 – UniRoma3 Title: "Interest rates term structure models and their impact on actuarial forecasting". Authors: A. Cafferata, P. G. Giribone, M. Resta
28 th November 2017	XIII Convention AIFIRM (Italian Association of Risk Management) – Milan Title: "Machine Learning: a diagnostic tool for the detection of market anomalies". Authors: A. Cafferata, P. G. Giribone
14 th June 2017	ABI (Italian Banking Association) "Risk and Supervision 2017", Market Risk – Rome Title: "Pricing and Hedging problems linked with negative interest rates". Author: P. G. Giribone
15 th June 2017	WIRN 2017, 27 th Italian Workshop on Neural Networks Proceedings Title: "Yield curve estimation under extreme conditions: do RBF networks perform better". Authors: A. Cafferata, P. G. Giribone, M. Neffelli, M. Resta
16 th November 2016	XII Convention AIFIRM (Italian Association of Risk Management) – Milan Title: "Quantitative finance studies and insights". Author: P. G. Giribone
28 th August 2016	IEEE International Conference on Mathematics and Computers in Sciences and Industry MCSI'16 Conference Proceedings Title: "Optimization of stochastic discrete event simulation models using AFO heuristic". Authors: P. G. Giribone, L. Cassettari, S. Fioribello, I. Bendato
4 th November 2014	MATLAB EXPO (Milan) - Conference Proceedings, session: Technical Computing Title: "MATLAB in CARIGE: Estimation of the Credit and Debt Value Adjustment (CVA/DVA)" Authors: P. Raviola, P. G. Giribone, S. Ligato
14 th June 2012	WSEAS International Conference on Mathematics and Computers in Business and Economics - MCBE'12 Conference Proceedings Title: "Reliable control of convergence in Monte Carlo pricing methods for options based on MSPE techniques". Authors: R. Mosca, L. Cassettari, P. G. Giribone
25 th November 2010	DOGE.I (Organizational and economic management disciplines) – University of Genoa Title: "An innovative approach to the Monte Carlo Pricing method: the control of convergence in financial options through the evolution of experimental error".

Author: P. G. Giribone

LECTURES	AND	SEMIN	ARS
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June 2020	Visiting Lecture Notes, University of Leon (Depto. De Ing. Electrica y de Sistemas) Online Lectures: "Prices forecasting using Dynamic Neural Networks: from NAR to LSTM networks".
29 th May 2020	Master Degree in Industrial Engineering and Management – University of Genoa Online Lecture: "EAKO Option Pricing: Advanced Lattice Techniques".
22 nd May 2020	Master Degree in Industrial Engineering and Management – University of Genoa Online Lecture: "Artificial Bee Colony: theory and applications in Response Surface Methodology".
March 2020	Master Degree in Economics – University of Genoa Online Lectures: "Financial Education and Risk Management".
12 th February 2020	Master Degree in Economics – University of Genoa Lecture: "Game Theory in R".
27 th May 2019	Phd in Economics – University of Genoa Seminar: "Introduction to Matlab modeling".
24 th May 2019	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Implementation of Fuzzy Logic for modeling investor's risk aversion".
10 th May 2019	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Continuous Ant Colony Optimization: theory and applications in Response Surface Methodology".
11 th March 2019	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Design, Implementation and Validation of a Financial Forecasting Neural Network".
31 st May 2018	Master Degree in Economics – University of Genoa Lecture: "Value at Risk and Expected Shortfall".
24 th May 2018	Master Degree in Economics – University of Genoa Lecture: "Hedging strategies using swaps".
17 th May 2018	Master Degree in Economics – University of Genoa Lecture: "Stochastic option pricing models".
15 th May 2018	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Deep Learning and technical analysis: Design of a neural networks battery for the automatic identification of financial patterns".
10 th May 2018	Master Degree in Economics – University of Genoa Lecture: "Deterministic option pricing models".
3 rd May 2018	Master Degree in Economics – University of Genoa Lecture: "Hedging strategies using options".
26 th April 2018	Master Degree in Economics – University of Genoa Lecture: "Hedging strategies using futures".
19 th April 2018	Master Degree in Economics – University of Genoa Lecture: "Fixed Income quantitative analysis".
12 th April 2018	Master Degree in Economics – University of Genoa Lecture: "Interest rates term structure modeling".
9 th April 2018	Master Degree in Economics – University of Genoa Lecture: "Exotic options – single asset".
2 nd April 2018	Master Degree in Industrial Engineering and Management – University of Genoa

	Seminar: "Analytical derivation of the plain vanilla option greeks".
26 th March 2018	Master Degree in Economics – University of Genoa Lecture: "Credit Derivatives".
21 st March 2018	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Particle Swarm Optimization: theory and applications in Response Surface Methodology".
19 th March 2018	Master Degree in Economics – University of Genoa Lecture: "Swap".
12 th March 2018	Master Degree in Economics – University of Genoa Lecture: "Binomial option pricing models".
26 th Febbruary 2018	Master Degree in Economics – University of Genoa Lecture: "Trading strategies using options".
4 th May 2017	Master Degree in Economics – University of Genoa Lecture: "Standard option: pricing and risk measures".
3 rd May 2017	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Attraction Force Optimization in application to stochastic discrete event simulation".
27 th April 2017	Master Degree in Economics – University of Genoa Lecture: "Fundamentals and properties of standard options".
26 th April 2017	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Statistical analysis of the optimal region in industrial stochastic simulators: the Box-Hunter methodology".
10 th April 2017	Master Degree in Economics – University of Genoa Lecture: "Futures and Forward".
6 th April 2017	Master Degree in Economics – University of Genoa Lecture: "Fixed Income risk measures".
3 rd April 2017	Master Degree in Economics – University of Genoa Lecture: "Term structure of interest rates".
30 th March 2017	Master Degree in Economics – University of Genoa Lecture: "Fixed Income fundamentals".
22 nd March 2017	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Numerical approximation of finite difference methods in application to Black-Scholes-Merton pricing model".
17 th November 2016	Master Degree in Energy Engineering – University of Genoa Lecture: "Symbolic analysis using Maple".
6 th April 2016	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Theory and applications of feed-forward neural networks in Response Surface Methodology".
16 th March 2016	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "A modified version of k-opt methodology in application to Response Surface Methodology".
9 th March 2016	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Triangular mesh methodologies in RSM (Response Surface Methodology)".
24 th November 2015	Master Degree in Energy Engineering – University of Genoa Lecture: "Stochastic processes for modeling the price of Italian electricity".
23 rd October 2015	Mathworks – Programming Techniques with Matlab 2015 – Genoa Seminar: "Research and Development in the Financial Administration of CARIGE Bank".
3 rd September 2015	Ph.D. in Mathematics Engineering – University of Genoa Seminar: "Critical analysis of AFO (Attraction Force Optimization) heuristic".

8 th May 2015	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Optimization inspired by thermodynamic simulations: theory and applications".
6 th May 2015	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Multi-objective optimization techniques: theory and applications".
10 th April 2015	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Tabu search metaheuristic: theory and applications".
27 th January 2015	Mathworks Webinar Webinar: "Counterparty risk and Credit Valuation Adjustment (CVA) using Matlab".
24 th July 2014	Ph.D. in Mathematics Engineering – University of Genoa Seminar: "Implementation of AFO heuristic for the calibration of interest rates stochastic trees".
7 th May 2014	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Attraction Force Optimization: Proposal and validation of a new technique".
16 th April 2014	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Geometric generalization of the Nelder and Mead simplex".
16 th April 2014	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Analytical derivation of the Black-Scholes closed formula".
2 nd April 2014	Master Degree in Mathematics – University of Genoa Seminar: "Numerical control of the error in Black-Scholes alternative Monte Carlo pricing methods".
19 th March 2014	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Quasi Monte Carlo methods in financial simulators: theory, applications and control".
10 th April 2013	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Techniques for reducing variance in financial simulators".
28 th November 2012	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Techniques for controlling variance in financial simulators".
3 rd May 2012	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Stochastic models for the dynamics of shares".
4 th April 2012	Ph.D. in Public Finance and Economics – University of Genoa Lecture: "Matlab Fundamentals".
25 th May 2011	Master Degree in Industrial Engineering and Management – University of Genoa Seminar: "Numerical methodologies for optimization".
PERSONAL SKILLS	

Mother tongue	Italian
Other language(s)	English
	First Ostificate in Eastick language (FOE Eastern exciting lang 2020)

First Certificate in English language (FCE Exam session:June 2006)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

OTHER SKILLS

- Information Technology: Software :

Operating System:

- Microsoft Windows (all versions);
- Linux Ubuntu;
- Android

Programming Languages:

- DOT. NET C#;
- Visual Basic;
- VBA (Visual Basic for Applications);
- SQL;
- Python
- Java (Base);
- Javascript (Base);
- PHP (Base);
- C++ (Base)

Word Processor:

- TeX;
- LaTeX

Software for mathematical and statistical analysis:

- Matlab;
- R;
- Julia;
- Maple;
- Wolfram Mathematica;
- Design Expert

Software for numerical simulation:

- Simulink;
- Simul8;
- Stella;
- Power Sim

Software for web editing:

- Macromedia Dreamweaver;
- Microsoft Frontpage Express;
- Joomla;
- Wordpress;
- JPEXS Flash Decompiler

Software for graphics:

- Adobe Photoshop;
- Gimp

Software for database management:

- Microsoft Access;
- Sybase;
- Aquadata Studio;
- IBM-DB2 (Base)

Software for office applications:

• Microsoft Office;

- Apache Open Office
- The Document Foundation Libre Office

- Comunication Skills

Good propensity for teamwork and a goal oriented approach

- Organization / Managerial Skills

Good inclination to manage universitary research group

- Membership

AIFIRM (Financial Industry Risk Managers Association) – Author, Scientific Referee and Coordinator of Artificial Intelligence committee
FINMAB – Finance MathWorks Advisory Board Member
ALIMA (Association for the teaching of Mathematics) – Member
UMI (Italian Mathematics Association) – Member
SIdE (Italian Econometric Association) – Member
AIAF (Italian Association of Financial Analysts) – Member and Author
Frontiers Research Foundation – Review Editor (Artificial Intelligence in Finance)