Workshop on Quantitative Finance 2024 (QFW2024)				
		Thurs day April 11th		
	Aula 3 Scaravilli	Aula I, Belle Arti 41	Aula Magna Scaravilli	
8:30 AM - 9:45 AM		Registration (Aula Magna Scaravilli)		
9:45 AM - 10:00 AM		Opening Remarks (Aula Magna Scaravilli)		
10:00 PM - 10:45 PM		Opening Lecture (Aula Magna Scaravilli)		
11:00 AM - 1:00 PM	ENERGYMARKETS	STOCHASTIC CONTROL	VOLATILITY MODELING	
		· · · · · · · · · · · · · · · · · · ·		
1:00 PM - 2:15 PM	Lu	inch + Poster Session + MSc QF Poster Sessio	on	
2:15 PM - 4:15 PM	PORTFOLIO	FINANCIAL DATA MINING		
4:15 PM - 4:45 PM	4:15 PM - 4:45 PM Coffee Break			
4:45 PM - 6:45 PM	PORTFOLIO	STOCHASTIC CONTROL and STOCHASTIC PROCESSES		

Friday April 12th				
	Aula 3 Scaravilli         Aula I, Belle Arti 41         Aula Magna Scaravilli			
8:45 AM - 10:45 AM	MACHINE LEARNING for FINANCE	INSURANCE	MICROSTRUCTURE	
10:45 AM - 11:15 AM		Coffee Break		
11:15 AM - 1:15 PM	NETWORKS and CRYPTO MARKETS	INSURANCE	MICROSTRUCTURE and MACHINE LEARNING for FINANCE	
1:15 PM - 2:30 PM		Lunch		
2:30 PM - 5:00 PM	RISKS	GENERAL FINANCE	DERIVATIVE PRICING	
5:00 PM - 5:30 PM	Coffee Break			
5:30 PM - 6:45 PM	5:30 PM - 6:45 PM ROUND TABLE (Aula Magna Scaravilli)			
8:00 PM - 11:00 PM	8:00 PM - 11:00 PM Social Dinner at Carlton Hotel			

Saturday April 13th			
	Aula 3 Scaravilli	Aula I, Belle Arti 41	Aula Magna Scaravilli
8:45 AM - 11:00 AM	MEAN-FIELD and STOCHASTIC GAMES	STOCHASTIC PROCESSES	GREEN FINANCE
11:00 AM - 11:30 AM Coffee Break			
11:30 AM - 1:30 PM	INTEREST RATE MODELS	STOCHASTIC PROCESSES and CRYPTO MARKETS	GREEN FINANCE
1:30 PM - 2:45 PM		Lunch	

Workshop on Quantitative Finance 2024 (QFW2024	L)

Thurs day April 11th				
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8:30 AM - 9:45 AM	Registration (Aula Magna Scaravilli)			
9:45 AM - 10:00 AM	Opening Remarks (Aula Magna Scaravilli)			
10:00 PM - 10:45 PM	M Opening Lecture (Aula Magna Scaravilli)			

	ENERGYMARKETS	STOCHASTIC CONTROL	VOLATILITY MODELING
11:00	Fast and General Simulation of Lévy-driven OU processes for Energy Derivatives	Investment with Independent Stochastic	Diamonds and forward variance models
11:15	Speaker: P. Manzoni	Labor Income Speaker: S. Park	Speaker: P. Friz
11:30	Uncertainty over uncert Gaussian Volterra processes as models of environmental policy ac		Pricing and calibration of path-dependent volatility models <b>Speaker: G. Gazzani</b>
11:45	electricity markets <b>Speaker: T. Vargiolu</b>	learning of unpredictable socioeconomic costs <b>Speaker: N. Rodosthenous</b>	The EWMA two-factor exponential Ornstein- Uhlenbeck model <b>Speaker: F. Baschetti</b>
12:00	Fast and Stable Credit Gamma of CVA <b>Speaker: R. Daluiso</b>	On optimal portfolio choice under stochastic drift of longevity bonds <b>Speaker:</b> I. Gallo	Orthogonal expansions in Volterra-Heston models <b>Speaker: T. K. Kloster</b>
12:15	Higher moments in the fundamental specification of electricity forward prices <b>Speaker: G. Scandolo</b>	Optimal Retirement Choice under Age-dependent Force of Mortality <b>Speaker:</b> <b>S. Zhu</b>	A Heston-Nandi GARCH model with two volatility components and two driving factors <b>Speaker: C. Tezza</b>
12:30	Additive model with fractional Brownian martingale for forward prices in energy markets <b>Speaker: M. Mastrogiovanni</b>	Self-consumption groups and the optimal management of storage <b>Speaker: A.</b> Awerkin	Long Memory by Heterogeneous Forecast Aggregation <b>Speaker: G. P. Aielli</b>
12:45		A comparison principle for Hamilton-Jacobi- Bellman-Isaacs equations based on couplings of differential operators <b>Speaker: F. Fuchs</b>	On the implied volatility of Inverse and Quanto Inverse options under stochastic volatility models <b>Speaker: M. Pravos ud</b>
1:00 PM - 2:15 PM	L	ınch + Poster Session + MSc QF Poster Sessi	on

1:00	PM -	2:1	5 P

Sentiment Trading with Large Language Models Presenter: K. Kirtac
The Information Content of Delayed Block Trades in Cryptocurrency Markets Presenter: L. Galati
Managing ESG Ratings Disagreement in Sustainable Portfolio Selection Presenter: M. L. Martino
Russia-Ukraine war and market expectations: evidence from option implied densities of European gas Presenter: M. Kosolapova
Dynamics of Wealth Inequality in the United States Presenter: Y. Choi
Ergodic Mean-Field Games of Singular Control with Regime-Switching Presenter: I. Tzouanas
Deep Limit Order Book Forecasting Presenter: A. Briola
A Methodological Approach to Assess Life Annuities Changes <b>Presenter: C. Di Palo</b>
MSc QF Poster Session Presenter: M. Penza
MSc QF Poster Session Presenter: G. Nadalini
MSc QF Poster Session Presenter: D. Barone
MSc QF Poster Session Presenter: M. M. Barbieri

Thursday April 11th			
	Aula 3 Scaravilli	Aula I, Belle Arti 41	Aula Magna Scaravilli

	PORTFOLIO	FINANCIAL DATA MINING
02:15	Quantifying Credit Portfolio sensitivity to asset correlations with interpretable	Sentiment-Based ETF Return Forecasting with Bayesian RFE and FinBERT
02:30	generative neural networks <b>Speakers: S.</b> Caprioli and E. Cagliero	Tweets Classification Speaker: R.G. Cestari
02:45	Factor Risk Budgeting and Beyond	Text mining arXiv: a look through quantitative finance papers <b>Speaker: M. L.</b>
03:00	Speaker: A. Rengim Cetingoz	quantitative finance papers <b>Speaker: M. L.</b> Bianchi
03:15	Behavioral dynamic portfolio selection with	Option pricing in a sentiment-
03:30	S-shaped utility and epsilon-	biased stochastic volatility model <b>Speaker:</b> M. Patacca
03:45	Is there an ESG-return trade off for asset managers? <b>Speaker: D. Stocco</b>	Option-implied asymmetry indices in the Eurozone: the relationship with sentiment and financial stress <b>Speaker: L.</b> Gambarelli
04:00	A risk-gain-sparsity dominance approach for portfolio selection <b>Speaker: A. Di Paolo</b>	

## 4:15 PM - 4:45 PM

Coffee Break

	PORTFOLIO	STOCHASTIC CONTROL and STOCHASTIC PROCESSES	
04:45	Portfolio Choice with ETFs	Striking the Balance: Life Insurance Timing and Asset Allocation in	
05:00	Speaker: H. Kraft	Financial Planning Speaker: G. Ferrari	
05:15	An Asset and Liability Management model for pension funds using deep reinforcement learning <b>Speakers: M. Di Francesco and V.</b> <b>Sperandeo</b>	Utility Maximization for Reinsurance Policies in a Dynamic	
05:30	Delta Hedging: Reinforcement Learning from simulation to reality <b>Speaker: M.</b> Colombi	Contagion Claim Model <b>Speaker: C. Ceci</b>	
05:45	Capital Risk, Fiscal Policy, and the Distribution of Wealth <b>Speaker: L. Regis</b>	Arcades to Bridge to Net Zero	
06:00	Signature Trading: A Path-Dependent Extension of the Mean-Variance Framework with Exogenous Signals <b>Speaker: O. Futter</b>	Speaker: A. Macrina	
06:15		Option pricing for time-changed Feller processes <b>Speaker: E. Scalas</b>	
06:30		A note on two stochastic hyperbolic equations <b>Speaker: L. Marconi</b>	

	Workshop on Quantitative Finance 2024 (QFW2024)				
[	Friday April 12th				
	Aula 3 Scaravilli Aula 1, Belle Arti 41 Aula Magna Scaravilli				
	MACHINE LEARNING for FINANCE	INSURANCE	MICROSTRUCTURE		
08:45	SpotV2Net: Multivariate Intraday Spot Volatility Forecasting via Vol-of-Vol-	Robust asymptotic insurance-finance	Insider trading with legal risk, entropy		
09:00	Informed Graph Attention Networks Speaker: G. Toscano	arbitrage <b>Speaker: K. Oberpriller</b>	and BSDEs <b>Speaker: U. Cetin</b>		
09:15	Optimal Estimation of Generic Dynamics	Pseudo Weak Lack-of-Memory Property with Insurance Applications <b>Speaker: M. Ricci</b>	A Novel Approach to Queue-Reactive		
09:30	by Path-Dependent Neural Jump ODEs <b>Speaker: J. Teichmann</b>	Pricing insurance contracts with an existing portfolio as background risk <b>Speaker: C. De Vecchi</b>	Models: The Importance of Order Sizes <b>Speaker: H. Bodor</b>		
09:45	Dimensionality reduction techniques to support insider trading detection <b>Speaker:</b> <b>A. Ravagnani</b>	An analytical study of variable annuities with surrender option <b>Speaker: G. Stabile</b>	Unwinding Stochastic Order Flow: When to		
10:00	Machine learning methods for American- style path-dependent contracts <b>Speaker: A.</b> Pallavicini	Market-Consistent Valuation and Capital Assessment for Demographic Risk in Life Insurance: A Cohort Approach <b>Speaker: F.</b> Della Corte	Warehouse Trades <b>Speaker: M. Nutz</b>		
10:15	Robust calibration of financial models using Bayesian methods for neural stochastic differential equations <b>Speaker: E. Flonner</b>	Optimal reinsurance via BSDEs in a partially observable model with jump clusters <b>Speaker: M. Brachetta</b>	Limit Order Book Dynamics and Order Size Modelling Using Compound Hawkes Process <b>Speaker: K. Jain</b>		
10:30	CAESar: Conditional Autoregressive Expected Shortfall <b>Speaker: F. Gatta</b>		A model for the hedging impact of option market makers <b>Speaker: S. Egebjerg</b>		

## 10:45 AM - 11:15 AM

Coffee Break

	NETWORKS and CRYPTO MARKETS	INSURANCE	MICROSTRUCTURE and MACHINE LEARNING for FINANCE
11:15	Interbank network reconstruction enforcing density and reciprocity <b>Speaker: V.</b> Macchiati	in a lumpdiffusion framework Sneaker' I	Spoofing and Manipulating Order Books with Learning Algorithms <b>Speaker: G. García- Arenas</b>
11:30			
11:45	Local Balance and Systemic Risk Measures in Signed Financial Networks <b>Speaker: P.</b> Bartesaghi	A novel undertaking specific approach for demographic risk in Solvency II framework <b>Speaker: G. P. Clemente</b>	Stochastic Liquidity as Proxy for Nonlinear Cross Impact <b>Speaker: C. Tracy</b>
12:00	A Network Perspective on the DAX 30 Supply Chain: Stylized Facts and Resilience <b>Speaker: E. Flori</b>	Insurance premium implied by rank dependence and probability distortion <b>Speaker: M. Nardon</b>	
12:15	A new systemic risk measure in a Random Matrix Theory context <b>Speaker: C.</b> Pastorino	A Score-Driven approach to Temperature Modelling in High Dimensions <b>Speaker: S.</b> <b>Serafini</b>	Optimal execution in a time varying environment: well-posedness and price manipulation <b>Speaker: G. Palmari</b>
12:30	Modelling shock propagation and resilience in financial temporal networks <b>Speaker: G.</b> <b>Rizzini</b>	Corporate demand for environmental insurance <b>Speaker: G. Iannucci</b>	Physics-Informed Deep Volatility <b>Speaker: K. Hoshisashi</b>
12:45	Crypto premium, higher-order moments and tail risk <b>Speaker: P. Santucci de Magistris</b>	Portfolio insurance strategies for defined contribution pension schemes in a jump- diffusion framework with stochastic longevity risk <b>Speaker: D. Feleppa</b>	Reservoir computers for quantile forecasting <b>Speaker: P. Mazzarisi</b>
01:00	Coherent Entropy-Based Risk Metrics in Minimum Risk Portfolio Selection <b>Speaker:</b> J. M. Ricci	Optimal dynamic pension funds management with volatility and interest rate risk <b>Speaker: I. Stefani</b>	Introducing the sigma-Cell: Unifying GARCH, Stochastic Fluctuations and Evolving Mechanisms in RNN-based Volatility Forecasting <b>Speaker: G. Rodikov</b>

		Friday April 12th			
	Aula 3 Scaravilli	Aula I, Belle Arti 41	Aula Magna Scaravilli		
1:15 PM - 2:30 PM	Lunch				
	RISKS	GENERAL FINANCE	DERIVATIVE PRICING		
02:30	Playing with Fire? A Mean Field Game of Control Model for the Impact of Regulatory Capital Constraints on Fire Sales and Systemic Risk <b>Speaker: R. Frey</b>	Whose forecast matters? The risk premium of optimistic & pessimistic disagreement <b>Speaker: G. Curatola</b>	American options with liquidation penalties Speaker: A. Battauz		
02:45					
03:00	On a General Class of Portfolio	Hedging Permanent Income Shocks	Collective Arbitrage and the Value of Cooperation <b>Speaker: A. Doldi</b>		
	Diversification Measures Induced by Risk	Speaker: R. Corvino			
03:15	Measures Speaker: P. Uberti	On continuity of state-dependent utility Speaker: E. Berton			
03:30	Modelling the option Bid-Ask Spreads <b>Speaker: A. Medina</b>	The Attribution Matrix and the joint use of Finite Change Sensitivity Index and Residual Income for value-based performance measurement <b>Speaker: A.</b> Marchioni	Time-Inhomogeneity in Currency Triangles - <b>Speaker: G. Amici</b>		
03:45	Symmetric Bernoulli distributions and minimal dependence copulas <b>Speaker: A.</b> Mutti	Pricing anomalies in an equilibrium pricing model with biased learning <b>Speaker: G.</b> Bottazzi			
04:00	Risk Adjusted Liquidity Coverage Ratio <b>Speaker: N. Picchiotti</b>	Consumption Skewness, Time Deformation and the Term Structure <b>Speaker: P. Neri</b>	American options with acceleration clauses <b>Speaker: S. Staffolani</b>		
04:15	Graph Neural Network Methods for Systemic Risk Management <b>Speaker: N. Weber</b>	Reverse Mortgages, Housing and Consumption: An Equilibrium Approach <b>Speaker: A. Sun</b>			
04:30	Sharpening Market Risk Allocation: from Basel 2.5 to FRTB <b>Speaker: M. Bianchetti</b>	Market structure or agent rationality: How efficiency trades with belief updating? Speaker: M. Ottaviani	Pricing Options with a Compound CARMA(p,q)- Hawkes model <b>Speaker: L. Mercuri</b>		
04:45	Risk measures based on weak optimal transport <b>Speaker: M. Nendel</b>		Is (independent) subordination relevant in option pricing? <b>Speaker: M. Azzone</b>		
5:00 PM - 5:30 PM	Coffee Break				
5:30 PM - 6:45 PM	ROUND TABLE (Aula Magna Scaravilli)				
8:00 PM - 11:00 PM	Social Dinner at Carlton Hotel				

Saturday April 13th					
	Aula 3 Scaravilli	Aula I, Belle Arti 41	Aula Magna Scaravilli		
	MEAN-FIELD and STOCHASTIC GAMES	STOCHASTIC PROCESSES	GREEN FINANCE		
08:45	Multiple executions in competition under a delay kernel <b>Speaker: M.</b> Aleandri	Optimal liquidation policies of redeemable shares <b>Speaker</b> : <b>F. Rotondi</b>	Can Investors Curb Greenwashing? <b>Speaker: P. Tankov</b>		
09:00					
09:15	Multiple equilibria in mean-field game models for large oligopolies with strategic complementarities <b>Speaker: J. Dianetti</b>	Estimation of parameters and local times in a discretely observed threshold diffusion model <b>Speaker: P.</b> <b>Pigato</b>	Active Fund Management when ESG Matters <b>Speaker: A. Tarelli</b>		
09:30					
09:45	Price formation under asymmetry of information - a mean-field approach <b>Speaker: G. Lanaro</b>	Infinite-dimensional Wishart processes <b>Speaker: C. Cuchiero</b>	Impact of Climate transition on Credit portfolio's loss with stochastic collateral <b>Speaker: L. Sopgoui</b>		
10:00	A saddle point in stopper vs. singular- controller games with free boundaries <b>Speaker: A. Bovo</b>		The puzzle of Carbon Allowance spread <b>Speaker: R. Baviera</b>		
10:15	Optimal irreversible investments with price impact in a competing market: a singular stochastic game <b>Speaker: A. Pesce</b>		Climate risk and sovereign debt: scarcity effects in green bonds <b>Speaker A. Santini</b>		
10:30	The explicit solution to a risk-sensitive ergodic singular stochastic control problem <b>Speaker: J. Gwee</b>		A parametric insurance policy for beekeepers and honey production: randon forest regressions and real world pricing <b>Speaker: I. Colivicchi</b>		
10:45	Market Stackelberg-Cournot-Nash equilibria with Dempster-Shafer uncertainty and α-maxmin preferences Speaker: D. Petturiti	General space multivariate Markov chain: a mixture transition distribution approach <b>Speaker: R. De Blasis</b>	Imperfect information and ESG disagreement: an ambiguous portfolio selection model <b>Speaker: G. Bongermino</b>		

## 11:00 AM - 11:30 AM

Coffee Break

11:30 AM - 1:30 PM	INTEREST RATE MODELS	STOCHASTIC PROCESSES and CRYPTO MARKETS	GREEN FINANCE
11:30	Cross-Currency Heath-Jarrow-Morton Framework in the Multiple Curve Setting <b>Speaker: A. Gnoatto</b>	Time expansions for stochastic processes <b>Speaker: S. Svaluto-Ferro</b>	What common structure behind the ESG ratings? <b>Speaker: E. Ossola</b>
11:45			
12:00	A simple parsimonious framework for extracting and modelling the term structure of interest rates <b>Speaker: D. Palumbo</b>	Warnings about Future Jumps: Properties of the Exponential Hawkes Model <b>Speaker: C. Mancini</b>	A stationary equilibrium model of green technology adoption with endogenous carbon price <b>Speaker: F. Dammann</b>
12:15		Exponential expansions for approximation of probability distributions <b>Speaker: A.M.</b> Gambaro	Learning from Experts: Energy Efficiency in Residential Buildings <b>Speaker: V. Veggente</b>
12:30	International Evidence on Risk Premia for Nominal and Inflation-Linked Bonds: The Information in Long-Term Rates <b>Speaker: A.</b> <b>Berardi</b>	Growth rate of wealth in G3Ms <b>Speaker: TH. Wang</b>	ESG evaluation for European Small and Medium Enterprises: A Multi-Criteria approach <b>Speaker: G. Filograsso</b>
12:45			A Fuzzy Approach to Volumetric Risk Management in Solar Power Production <b>Speaker: B. Sartini</b>
01:00	A simple model for the Euro Short-Term Rate <b>Speaker: S. Herzel</b>	Hawkes-based cryptocurrency forecasting via Limit Order Book data <b>Speaker: R.G. Cestari</b>	LHP approximation for green loan credit portfolios under skewed and heavy-tails returns <b>Speaker: A. Ramponi</b>
01:15		The impact of cryptocurrencies in an equity investment universe for portfolio selection <b>Speaker: F. Luciani</b>	

1:30 PM - 2:45 PM