



C E R T I F I C A T E

We certify that **Abel Guada Azze** participated in and delivered the talk entitled “**Optimal stopping of Gauss-Markov bridges with applications to American options**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Adil Rengim Cetingoz** participated in and delivered the talk entitled “**Factor Risk Budgeting and Beyond**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Albina Danilova** participated in and delivered the talk entitled “**Order routing and market quality: Who benefits from internalization?**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Aldair Petronilia** participated in and delivered the talk entitled “**Contagious McKean-Vlasov problems with common noise: from smooth to singular feedback through hitting times**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Alekos Cecchin** participated in and delivered the talk entitled “**On the long time behavior of mean field games**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Alessandro Bondi** participated in and delivered the talk entitled “**Affine Volterra processes with jumps**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Alessandro Doldi** participated in and delivered the talk entitled “**On stability of law-invariant risk measures and EOT problems**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Alessandro Sgarabottolo** participated in and delivered the talk entitled “**Risk measures based on weak optimal transport**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Alexander Voss** participated in and delivered the talk entitled “**Towards a Measurement of Cyber Pandemic Risk**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Alexandros Saplaouras** participated in and delivered the talk entitled “**Stability of backward propagation of chaos**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Anastasis Kratsios** participated in and delivered the talk entitled “**An Approximation Theory for Metric Space-Valued Functions: From Rough Path Theory to Adapted Optimal Transport**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Anders Midtgaard Norlyk** participated in and delivered the talk entitled “**The Stochastic Block Ornstein Uhlenbeck Process**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Andrea Mazzon** participated in and delivered the talk entitled “**Optimal entry and exit problems under climate scenario uncertainty, ambiguity aversion and learning**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Andreas Andrikopoulos** participated in and delivered the talk entitled “**Pay for success contracts: Investment valuation in partially complete markets**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Andreas Celary** participated in and delivered the talk entitled “**Reproducing Kernel Based Methods For Modelling The Discount Curve**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Andreas Sojmark** participated in and delivered the talk entitled “**Endogenous distress contagion in dynamic interbank systems**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Anna Paula Kwossek** participated in and delivered the talk entitled “**Pathwise stability analysis: Euler schemes and log-optimal portfolios**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Antonio Marini** participated in and delivered the talk entitled “**Calibration of the Bass Local Volatility Model**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Antonis Papantoleon** participated in and delivered the talk entitled “**Deep gradient flow methods for option pricing in (rough) diffusion models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Ariel Neufeld** participated in and delivered the talk entitled “**Quantum Monte Carlo algorithm for solving Black-Scholes PDEs for high-dimensional option pricing in finance and its proof of overcoming the curse of dimensionality**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Ariel Neufeld** participated in and delivered the talk entitled “**Sensitivity of robust optimization problems under drift and volatility uncertainty**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Asmerilda Hitaj** participated in and delivered the talk entitled “**ALM Through Distributionally Robust Optimization**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Bahman Angoshtari** participated in and delivered the talk entitled “**Optimal consumption under loss-averse multiplicative habit-formation preferences**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Balint Negyesi** participated in and delivered the talk entitled “**Convergence of the Deep BSDE method for general coupled FBSDEs and applications in stochastic optimal control**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Bart Taub** participated in and delivered the talk entitled “**The value of information flows in the stock market**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Beatrice Ongarato** participated in and delivered the talk entitled “**Semi-static variance-optimal hedging with self-exciting jumps**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Benedict Bauer** participated in and delivered the talk entitled “**Martingale bridges with restricted support**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Bruno Dupire** participated in and delivered the talk entitled “**An Order Matching Engine to Trade Multiple Securities Simultaneously**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Camilo Hernández** participated in and delivered the talk entitled “**Moral Hazard for Time-Inconsistent Agents**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Caroline Hillairet** participated in and delivered the talk entitled “**Bi-Revealed Utilities in a defaultable universe**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Cecilia Mancini** participated in and delivered the talk entitled “**Optimum thresholding using conditional mean squared error in the presence of infinite activity jumps**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Chiara Rossato** participated in and delivered the talk entitled “**Golden parachutes under the threat of accidents**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Christoph Reisinger** participated in and delivered the talk entitled “**Markov decision processes with observation costs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Connor Tracy** participated in and delivered the talk entitled “**Stochastic Liquidity as Proxy for Nonlinear Cross Impact**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Cristiano Arbex Valle** participated in and delivered the talk entitled “**An optimisation framework for building realistic portfolios with equities and futures contracts**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Daniel Krsek** participated in and delivered the talk entitled “**Randomisation with moral hazard: a path to existence of optimal contracts**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **David Hirnschall** participated in and delivered the talk entitled “**Signature-based Time Series Wasserstein GAN**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **David Itkin** participated in and delivered the talk entitled “**Optimal Linear Strategies under Concave Price Impact**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Dimitrios Konstantinides** participated in and delivered the talk entitled “**A new approach in two-dimensional heavy-tailed random variables**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Diogo Duarte Garcia Pires** participated in and delivered the talk entitled “**Bank Liquidity Management and Payout Policy under Peer Pressure**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Diogo Gomes** participated in and delivered the talk entitled “**A Mean-Field Game Model of Price Formation with Price-Dependent Agent Behavior**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Dominykas Norgilas** participated in and delivered the talk entitled “**Numerics of Martingale Optimal Transport with Causality Constraints**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Dörte Kreher** participated in and delivered the talk entitled “**Interacting limit order markets**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Duong Van Hai** participated in and delivered the talk entitled “**Does spoofing erode market confidence?**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Dylan Possamai** participated in and delivered the talk entitled “**Randomness and early termination: what makes a game exciting?**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Eduardo Abi Jaber** participated in and delivered the talk entitled “**Equilibrium in Functional Stochastic Games with Mean-Field Interaction**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Eduardo Fonseca Mendes** participated in and delivered the talk entitled “**Parametric portfolio policy, transaction costs and regularization**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Eliana Fausti** participated in and delivered the talk entitled “**From mean field modelling to a forward-looking indicator of systemic risk**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Elisa Mastrogiacomo** participated in and delivered the talk entitled “**Dynamic capital allocation rules via BSDEs: an axiomatic approach**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Emma Hubert** participated in and delivered the talk entitled “**A new approach to principalagent problems with volatility control**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Emmanuel Lepinette** participated in and delivered the talk entitled “**Alternative approach to price European options in general discrete-time models without no-arbitrage condition.**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Evangelia Dragazi** participated in and delivered the talk entitled “**Improved model-free bounds for multi-asset options using option-implied information and deep learning**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Eyal Neuman** participated in and delivered the talk entitled “**Offline learning for propagator models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Fabian Fuchs** participated in and delivered the talk entitled “**A comparison principle for Hamilton-Jacobi-Bellman-Isaacs equations based on couplings of differential operators**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Fabrice Wunderlich** participated in and delivered the talk entitled “**Functional weak convergence of financial gains for tick-by-tick models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Faycal Drissi** participated in and delivered the talk entitled “**Price formation and competition in decentralised exchanges**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Fenghui Yu** participated in and delivered the talk entitled “**A queueing approach to execution probabilities in a limit order book with stochastic order flows**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Florian Bourgey** participated in and delivered the talk entitled “**Smile Dynamics and Rough Volatility**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Florian Thomas Krach** participated in and delivered the talk entitled “**Forecasting LOBs with Path-Dependent Neural Jump ODEs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Francesca Primavera** participated in and delivered the talk entitled “**Itô’s formula for non-anticipative functionals of càdlàg rough paths**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Francis Liu** participated in and delivered the talk entitled “**Jump risk premia in the presence of clustered jumps**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Franklin de Oliveira Gonçalves** participated in and delivered the talk entitled “**Quant Models, Systematic Investments and Risk Management**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Gabriela Kovacova** participated in and delivered the talk entitled “**Robust multi-objective stochastic control**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Gabriele Visentin** participated in and delivered the talk entitled “**Calibration to market-implied risk measures**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Giacomo Lanaro** participated in and delivered the talk entitled “**Price formation under asymmetry of information – a mean-field approach**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Gijs Mast** participated in and delivered the talk entitled “**A novel Fourier tensor network for solving multi-dimensional expectation problems**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Giulia Di Nunno** participated in and delivered the talk entitled “**A tour in Sandwiched Volterra Volatility models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Graeme Baker** participated in and delivered the talk entitled “**Two approaches to mean-field systemic risk models with default cascades**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Guido Gazzani** participated in and delivered the talk entitled “**Joint calibration to SPX and VIX options with signature-based models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Hamza Bodor** participated in and delivered the talk entitled “**A Novel Approach to Queue-Reactive Models: The Importance of Order Sizes**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Hao Xing** participated in and delivered the talk entitled “**Model Ambiguity versus Model Misspecification in Dynamic Portfolio Choice**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Hao Xing** participated in and delivered the talk entitled “**Optimal contract, consumption habit, and capital structure**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Haoyang Cao** participated in and delivered the talk entitled “**Risk of transfer learning and its applications in finance**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Hassan Chehaitli** participated in and delivered the talk entitled “**Netting And Novation In Repo Networks With Rehypothecation: An Agent-Based Computational Model**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Heidar Eyjolfsson** participated in and delivered the talk entitled “**Robustness of Hilbert space-valued stochastic volatility models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Hélène Halconruy** participated in and delivered the talk entitled “**On a projection least squares estimator for jump diffusion processes**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Helton Graziadei de Carvalho** participated in and delivered the talk entitled “**Actuarial Learning for Loss Modeling of Brazilian Soybean Crops**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Ioannis Gasteratos** participated in and delivered the talk entitled “**okker-Planck equations for Volterra processes**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Ioannis Kyriakou** participated in and delivered the talk entitled “**Calibration risk under parameter probabilistic dependencies and model output effects**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jaehyuk Choi** participated in and delivered the talk entitled “**Efficient simulation of the SABR model**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Jakob Heiss** participated in and delivered the talk entitled “**Path-dependent Neural Jump ODEs and their Application to Stochastic Filtering**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **James Dalby** participated in and delivered the talk entitled “**Collectivized pensions in the presence of systematic longevity risk**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jan Obloj** participated in and delivered the talk entitled “**Martingale Benamou-Brenier: arithmetic and geometric Bass martingales**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jan Vecer** participated in and delivered the talk entitled “**Portfolio Optimization Beyond Utility Maximization: The Case of Driftless Markets**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jang Schiltz** participated in and delivered the talk entitled “**Finite Mixture Models for an underlying Beta distribution with an application to COVID-19 data**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Janka Oona Möller** participated in and delivered the talk entitled “**Polynomial and affine McKean-Vlasov stochastic differential equations**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jasper Rou** participated in and delivered the talk entitled “**Convergence of Deep Gradient Flow Methods for Option Pricing**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Javier Garcia Gonzalez** participated in and delivered the talk entitled “**Welfare effects of collective investment for heterogeneous agents**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jim Gatheral** participated in and delivered the talk entitled “**Computing the SSR**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **João Afonso Bastos** participated in and delivered the talk entitled “**Nonparametric determinants of market liquidity**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jodi Dianetti** participated in and delivered the talk entitled “**Strong solutions to submodular mean field games with common noise under lack of uniqueness**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Johannes Langner** participated in and delivered the talk entitled “**Mean-field equilibrium under model uncertainty**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Johannes Wiesel** participated in and delivered the talk entitled “**Empirical martingale projections via the smoothed adapted Wasserstein distance**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **John Armstrong** participated in and delivered the talk entitled “**Robustness of the Gamma Hedging Strategy**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jonathan Yick Yeung Tam** participated in and delivered the talk entitled “**Mean-field games of speedy information access with observation costs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Jorge P. Zubelli** participated in and delivered the talk entitled “**Deep reinforcement learning for stochastic dominance problems with applications to optimal fixed mix strategies**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Josef Teichmann** participated in and delivered the talk entitled **“Is it easier to learn robust optimal investment strategies?”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Joseph Mulligan** participated in and delivered the talk entitled “**On the Perils of Overfitting**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Juan Carlos Arismendi Zambrano** participated in and delivered the talk entitled **“Implicit Entropic Market Risk-Premium from Interest Rate Derivatives”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Julien Guyon** participated in and delivered the talk entitled “**Fast Exact Joint S&P 500/VIX Smile Calibration in Discrete and Continuous Time**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Julio Backhoff-Veraguas** participated in and delivered the talk entitled “**Specific relative entropy between continuous martingales and applications**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Justin Gwee** participated in and delivered the talk entitled “**The explicit solution to a risk-sensitive ergodic singular stochastic control problem**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Kaiwen Zhang** participated in and delivered the talk entitled “**A Probabilistic Approach to Discounted Infinite Horizon and Invariant Mean Field Games**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Karoline Vonach** participated in and delivered the talk entitled “**On the Matrix-Valued Gamma Distribution in Multivariate Poisson Mixture Models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Katharina Oberpriller** participated in and delivered the talk entitled “**Robust asymptotic insurance-finance arbitrage**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Kevin Weichao Lu** participated in and delivered the talk entitled “**Monte Carlo Simulation for Trading Under a Lévy-Driven Mean-Reverting Framework**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Kexin Shao** participated in and delivered the talk entitled “**Non-decreasing martingale couplings**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Konstantinos Stefanakis** participated in and delivered the talk entitled “**Equilibrium Returns in Continuous-Time Markets with Price Impact and Frictions**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Kristof Wiedermann** participated in and delivered the talk entitled “**A small-time central limit theorem for stochastic Volterra integral equations and its implications on the Markov property**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Kumushoy Abduraimova** participated in and delivered the talk entitled “**Contagion in high-frequency (il)liquidity networks**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Laura Ballotta** participated in and delivered the talk entitled “**Time changes, Fourier transforms and the joint calibration to the S&P 500/VIX smiles**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Laurence Carassus** participated in and delivered the talk entitled “**Nonconcave Robust Utility Maximization under Projective Determinacy**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Leonardo Perotti** participated in and delivered the talk entitled **“From P to Q: Robust Hedging of the Prepayment Option”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Lingyi Yang** participated in and delivered the talk entitled “**Modelling with signature neural processes**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Linn Engström** participated in and delivered the talk entitled “**Computation of Robust Option Prices via Structured Martingale Optimal Transport**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Lionel Soppoui** participated in and delivered the talk entitled “**Propagation of carbon taxes in credit portfolio through macroeconomic factors**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Lorenz Riess** participated in and delivered the talk entitled
“**The CLM-transformation for weak Martingale Optimal Transport**” at
the **12th Bachelier World Congress of the Bachelier Finance Society**
held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV
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We certify that **Lorenzo Lucchese** participated in and delivered the talk entitled “**The Short-Term Predictability of Returns in Order Book Markets: a Deep Learning Perspective**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Lorenzo Mercuri** participated in and delivered the talk entitled “**A local jump compound CARMA(p,q)-Hawkes process.**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Louis-Amand Gérard** participated in and delivered the talk entitled “**Signature stochastic volatility models: pricing and hedging with Fourier**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Luca De Gennaro Aquino** participated in and delivered the talk entitled **“Reference-dependent asset pricing with a stochastic consumption-dividend ratio”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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CERTIFICATE

We certify that **Luciana Salles Barbosa** participated in and delivered the talk entitled “**Strategic investment and subsidy within an asymmetric duopoly under uncertainty**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Luciano Campi** participated in and delivered the talk entitled “**Coarse correlated equilibria in linear quadratic mean field games and application to an emission abatement game**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Luhao Zhang** participated in and delivered the talk entitled “**Decision Making under Costly Sequential Information Acquisition: the Paradigm of Reversible and Irreversible Decisions**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Lukas Trottnner** participated in and delivered the talk entitled “**Learning to reflect On data driven approaches to stochastic control**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Marcel Nutz** participated in and delivered the talk entitled “**Entropic Selection in Optimal Transport**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Marco Frittelli** participated in and delivered the talk entitled “**Collective super replication and collective risk measures**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Marco Rodrigues** participated in and delivered the talk entitled “**Reflections on BSDEs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Marco Zullino** participated in and delivered the talk entitled “**Dynamic Return and Star-Shaped Risk Measures via BSDEs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Maria Olympia Tsianni** participated in and delivered the talk entitled “**Simulation of the Calibrated Heston-type Local Stochastic Volatility Model**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Mark Podolskij** participated in and delivered the talk entitled “**On nonparametric estimation of the interaction function in particle system models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Marlon Ruoso Moresco** participated in and delivered the talk entitled “**Uncertainty Propagation and Dynamic Robust Risk Measures**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Mateo Rodriguez Polo** participated in and delivered the talk entitled “**Time-inconsistent stochastic control: state dependency**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Mehdi Talbi** participated in and delivered the talk entitled “**Sannikovs contracting problem with many Agents**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Mesias Alfeus** participated in and delivered the talk entitled “**Roll-Over Risk: New Evidence from an Emerging Market**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Mesias Alfeus** participated in and delivered the talk entitled “**Consistent Joint Modeling of SPX Options, VIX Options, and VIX Futures**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Michael Giegrich** participated in and delivered the talk entitled “**K-nearest neighbor resampling for limit order books**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Moritz Voss** participated in and delivered the talk entitled “**Aggregation of Financial Markets**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Moritz Weiss** participated in and delivered the talk entitled **“Reinforcement Learning for Trade Execution in a Simulated Market”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Natalie Packham** participated in and delivered the talk entitled “**A Markov approach to credit rating migration conditional on economic states**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Nathan De Carvalho** participated in and delivered the talk entitled “**Optimal trading with propagators and inventory constraints: applications to battery storage and execution**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Nathan De Carvalho** participated in and delivered the talk entitled “**Reconciling rough volatility with jumps**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Nazem Khan** participated in and delivered the talk entitled “**Chain or Channel? Channel Optimization with Heterogeneous Payments**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Nelson Kyakutwika** participated in and delivered the talk entitled “**Consistent Joint Modeling of SPX Options, VIX Options, and VIX Futures**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Neofytos Rodosthenous** participated in and delivered the talk entitled “**Uncertainty over uncertainty in environmental policy adoption: Bayesian learning of unpredictable socioeco- nomic costs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Nicolás Hernández Santibáñez** participated in and delivered the talk entitled “**Dynamic programming approach for continuous-time Stackelberg games**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Nikolaos Constantinou** participated in and delivered the talk entitled “**Equilibria in incomplete markets an FBSDE approach**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Nikolay Gudkov** participated in and delivered the talk entitled “**Empirical Analysis of Crude Oil Dynamics Using Affine vs. Non-affine Jump-Diffusion Models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Nurtai Meimanjan** participated in and delivered the talk entitled “**A mixed-integer programming approach in computation of systemic risk measures**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Ofelia Bonesini** participated in and delivered the talk entitled “**Continuous time persuasion with filtering and applications to energy transition**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Oleksii Mostovyi** participated in and delivered the talk entitled “**An approach to the Greeks for indifference pricing**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Oriol Zamora Font** participated in and delivered the talk entitled “**Pricing VIX options under the Heston-Hawkes stochastic volatility model**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Osvaldo Paulo Israel Cancado Assuncao** participated in and delivered the talk entitled “**Common Asset Impact on Default Contagion**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Paul Hager** participated in and delivered the talk entitled “**Advancing Optimal Stochastic Control with Signatures**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Pere Diaz Lozano** participated in and delivered the talk entitled “**Computing dynamic risk measures: Convergence of the Deep BSDE method for FBSDE with quadratic growth**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Peter Pommergård Lind** participated in and delivered the talk entitled **“NN de-Americanization: A Fast and Efficient Calibration Method for American-Style Options”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Pham Huyen** participated in and delivered the talk entitled “**Control randomisation approach for policy gradient and application to reinforcement learning in optimal switching**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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C E R T I F I C A T E

We certify that **Philipp Jettkant** participated in and delivered the talk entitled “**The Memoryless Property in a Mean-Field Systemic Risk Model with Defaults**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Philipp Schmock** participated in and delivered the talk entitled “**Universal Approximation Property of Random Neural Networks**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Philippe Bergault** participated in and delivered the talk entitled “**A mean field game between informed traders and a broker**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Piotr Fiszeder** participated in and delivered the talk entitled “**Drivers of Bitcoin volatility: A Comprehensive Study with Statistical and Machine Learning Methods**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Rafael Berriel** participated in and delivered the talk entitled “**Optimal Investment Time under Moral Hazard**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Raquel Maria Medeiros Gaspar** participated in and delivered the talk entitled “**Nonparametric option hedging**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Raul Guarani Riva** participated in and delivered the talk entitled “**Asymmetric Violations of the Spanning Hypothesis**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Redouane Silvente** participated in and delivered the talk entitled “**Optimal control of storage and intraday price formation in electricity markets**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Rene Aid** participated in and delivered the talk entitled **“Moral hazard, market power and futures market equilibrium”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Robert Boyce** participated in and delivered the talk entitled “**Unwinding Stochastic Order Flow with Partial Information**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Robert Denkert** participated in and delivered the talk entitled “**Extended mean-field games with multi-dimensional singular controls**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Rodrigo S. Targino** participated in and delivered the talk entitled “**Mortality Forecasting of Small Pension Fund Population with Gaussian Processes in a Sub Population Framework**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Rouyi Zhang** participated in and delivered the talk entitled “**Convergence of Heavy-Tailed Hawkes Processes and the Microstructure of Rough Volatility**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Roxana Dumitrescu** participated in and delivered the talk entitled “**Energy efficiency and demand response: a mean-field game approach.**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Ruben Wiedemann** participated in and delivered the talk entitled “**Local Volatility Calibration Using Neural Operators**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Ruediger Frey** participated in and delivered the talk entitled “**On the impact of tax uncertainty on investment into carbon abatement technologies**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Samuel Cohen** participated in and delivered the talk entitled “**Neural network pricing models with implications for hedging and risk management**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Sascha Desmettre** participated in and delivered the talk entitled “**Equilibrium Investment with Random Risk Aversion**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Nathan Saudubois** participated in and delivered the talk entitled “**First order Martingale model risk hedging**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Scott Robertson** participated in and delivered the talk entitled “**Rational Expectations Equilibrium with Optimal Information Acquisition**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Sebastian Bak Egebjerg** participated in and delivered the talk entitled “**A model for the hedging impact of option market makers**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Sebastian Jaimungal** participated in and delivered the talk entitled “**Constrained Barycentre of Models with Deep Learning**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Sergio Maffra** participated in and delivered the talk entitled “**Cashflow-driven investment beyond expectations**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Shida Duan** participated in and delivered the talk entitled
“**Rank-Dependent Predictable Forward Performance Processes**” at
the **12th Bachelier World Congress of the Bachelier Finance Society**
held at Escola de Matemática Aplicada of Fundação Getulio Vargas -
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We certify that **Shuaijie Qian** participated in and delivered the talk entitled “**Non-Concave Utility Maximization with Transaction Costs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Song Ping Zhu** participated in and delivered the talk entitled “**Price equivalence between Parasian options with a moving window and their “fixed window” counterparts**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Songyan Hou** participated in and delivered the talk entitled “**Time-Causal Market Generator**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Stephan Sturm** participated in and delivered the talk entitled “**The Distribution Builder – A tool for financial decision making in the FinTech era**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Steven Campbell** participated in and delivered the talk entitled “**Relative Arbitrage Under Transaction Costs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Sturmius Tuschmann** participated in and delivered the talk entitled “**Optimal Portfolio Choice with Cross-Impact Propagators**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Tahir Choulli** participated in and delivered the talk entitled “**Super-hedging-pricing for vulnerable claims in market models with random horizon**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Thaleia Zariphopoulou** participated in and delivered the talk entitled “**Information acquisition via a consequentialistic approach under model uncertainty**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Thibaut Mastrolia** participated in and delivered the talk entitled “**Auction market design and regulation policies**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Thilo Meyer-Brandis** participated in and delivered the talk entitled “**Collective Arbitrage**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Thomas Kirkegaard Kloster** participated in and delivered the talk entitled “**Orthogonal expansions in Volterra-Heston models**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Thorsten Schmidt** participated in and delivered the talk entitled “**Term structure modelling with overnight rates beyond stochastic continuity**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Urban Ulrych** participated in and delivered the talk entitled “**Smart Kernel Factors**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Uwe Schmock** participated in and delivered the talk entitled “**Equivalent Conditions for the Stochastic Exponential to be a Uniformly Integrable Martingale**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Valentin Tissot Daguet** participated in and delivered the talk entitled “**Occupied Processes: Going with the Flow**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Vinicius Albani** participated in and delivered the talk entitled “**Combining Stochastic Modeling and Artificial Intelligence to Price Electricity Forward Contracts**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Vitali Alexeev** participated in and delivered the talk entitled “**From previous tick to pre-averaging: A Spectrum of equidistant transformations for unevenly spaced high-frequency data**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Vu Huy Hoang** participated in and delivered the talk entitled “**Macro-Finance Models: A Mean-field Game Approach**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Wenpin Tang** participated in and delivered the talk entitled “**Contractive diffusion models and score matching by continuous reinforcement learning**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Xiaofei Shi** participated in and delivered the talk entitled **“Dynamic Portfolio Choice with Intertemporal Hedging and Transaction Costs”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Xiaoping Lu** participated in and delivered the talk entitled “**Pricing American Barrier Options with Transaction Costs**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Yadh Hafsi** participated in and delivered the talk entitled **“Uncovering Market Disorder and Liquidity Trends Detection”** at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Yifan Jiang** participated in and delivered the talk entitled “**Sensitivity of causal distributionally robust optimization**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Yonatan Shadmi** participated in and delivered the talk entitled “**Stability of order routing systems in fragmented markets**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Yufei Zhang** participated in and delivered the talk entitled “**Fast and Slow Optimal Trading with Exogenous Information**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

A handwritten signature in blue ink that reads "Yuri F. Saporito".

Yuri Saporito
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We certify that **Yuqiong Wang** participated in and delivered the talk entitled “**Bayesian dynamic Pricing under an arbitrary prior**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.



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We certify that **Zhaoli Jiang** participated in and delivered the talk entitled “**Strategic Investment under Uncertainty with First- and Second-mover Advantages**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMaP, Rio de Janeiro, from July 8th to July 12th, 2024.

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We certify that **Ziteng Cheng** participated in and delivered the talk entitled “**Mean field regrets in discrete time games**” at the **12th Bachelier World Congress of the Bachelier Finance Society** held at Escola de Matemática Aplicada of Fundação Getulio Vargas - FGV EMAp, Rio de Janeiro, from July 8th to July 12th, 2024.

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