



CERTIFICATE

We hereby certify that, *Alberto Adrego Pinto*, Universidade do Porto, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Implications of International Trade Agreements".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli Organizing Committee



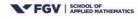




















CERTIFICATE

We hereby certify that, *Antoine Savine*, Danske Bank, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "The influence of Bruno Dupire on derivatives markets".

Rio de Janeiro, November 29th, 2018.



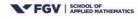




















CERTIFICATE

We hereby certify that, *Carole Bernard*, Vrije Universiteit Brussel, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Option Implied Dependence".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli Organizing Committee





















CERTIFICATE

We hereby certify that, *Ernst Eberlein*, Universitat Freiburg - Freiburg - Alemanha, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Multiple curve Lévy forward price model allowing for negative interest rates".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli Organizing Committee























CERTIFICATE

We hereby certify that, *Giorgio Consigli*, **University of Bergamo**, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "**Derivatives-based portfolio management via multistage stochastic programming**".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli

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CERTIFICATE

We hereby certify that, *Guillaume Blacher*, Bank of America, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Fixed Point Method for Fast Smile Calibration of Hybrid Model".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli **Organizing Committee**





















CERTIFICATE

We hereby certify that, Jan Obloj, University of Oxford, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Robust Pricing and Hedging in Practice".

Rio de Janeiro, November 29th, 2018.

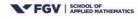




















CERTIFICATE

We hereby certify that, **Jean-Pierre Fouque**, **University of California Santa Barbara**, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "On Fairness of Systemic Risk Measures".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli **Organizing Committee**





















CERTIFICATE

We hereby certify that, **Josef Teichmann**, **Eth-Zentrum**, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Scenario generation by machine learning techniques".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli **Organizing Committee**

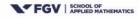




















CERTIFICATE

We hereby certify that, *Julien Guyon*, **Bloomberg - NY**, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "On the Joint Calibration of SPX and VIX Options".

Rio de Janeiro, November 29th, 2018.





















CERTIFICATE

We hereby certify that, Lakshithe Wagalath, léseg School of Management, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios -Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Strategic Fire-Sales and Price-Mediated Contagion in the Banking System".

Rio de Janeiro, November 29th, 2018.





















CERTIFICATE

We hereby certify that, *Lane Hughston*, Goldsmiths, University of London, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios -Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "On the Determination of the Lévy Exponent in Asset Pricing Models".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli **Organizing Committee**

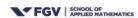




















CERTIFICATE

We hereby certify that, *Martin Schweizer*, Swiss Federal Institute of Technology, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Dynamic mean-variance optimization problems with deterministic information".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli **Organizing Committee**



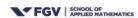
Organizing



















CERTIFICATE

We hereby certify that, *Martino Grasselli*, Padova University, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Fast Hybrid Schemes for Fractional Riccati Equations (Rough is not so Tough)".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli Organizing Committee

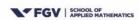




















CERTIFICATE

We hereby certify that, *Matheus Grasselli*, Mcmaster University, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Climate Change, Finance, and Macroeconomics".

Rio de Janeiro, November 29th, 2018.

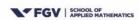




















CERTIFICATE

We hereby certify that, *Max Oliveira de Souza*, Universidade Federal Fluminense, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Pricing options with non-uniform Fourier transform".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli **Organizing Committee**

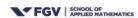




















CERTIFICATE

We hereby certify that, *Raphael Douady*, Stony Brook University, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Regime Switching Market Evolution and Calibration, Relations to Polymodels".

Rio de Janeiro, November 29th, 2018.

























CERTIFICATE

We hereby certify that, Stephane Crepey, Université Evry Val d'Essonne, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Uncertainty Quantification for XVA Applications".

Rio de Janeiro, November 29th, 2018.





















CERTIFICATE

We hereby certify that, *Uwe Schmock*, Vienna University of Technology, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Geometry of Distribution-Constrained Optimal Stopping Problems".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli **Organizing Committee**

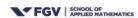




















CERTIFICATE

We hereby certify that, Yuri Fahham Saporito, Fundação Getúlio Vargas, participated in the Mathematics & Finance: Research in Options 2018, held at Atlântico Búzios Hotel, Búzios - Rio de Janeiro, from November 24th to 28th, 2018 and presented the following plenary talk: "Dupire Calculus".

Rio de Janeiro, November 29th, 2018.

Jorge P. Zubelli **Organizing Committee**











