

CERTIFICATE

We certify that **Bruno Dupire** participated in and contributed a talk entitled “**Numeraire Portfolio and Weighted Monte Carlo**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAP, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Eduardo Abi Jaber** participated in and contributed a talk entitled “**From the Quintic model to signature volatility models**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Christian Bayer** participated in and contributed a talk entitled “**Markovian approximations to rough volatility models**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Diogo Duarte** participated in and contributed a talk entitled
“Bank Liquidity Management and Payout Policy under Peer Pressure”
at the **19th Research in Options** held at the School of Applied
Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro,
from December 4th, 2024 to December 8th, 2024.

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We certify that **Jorge Zubelli** participated in and contributed a talk entitled
“Local Volatility Estimation with Jumps - Honoring the life & work of our colleague Marco Avellaneda” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Julien Gyon** participated in and contributed a talk entitled “**Neural joint S&P 500/VIX smile calibration**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Lakshitha Wagalath** participated in and contributed a talk entitled “**Regulatory arbitrage and financial stability: how the new output floor compares to other capital requirements**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Marcelo Fernandes** participated in and contributed a talk entitled “**Estimation risk in conditional expectiles**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Marcel Nutz** participated in and contributed a talk entitled
“**Optimal Execution among N Traders with Transient Price Impact**” at
the **19th Research in Options** held at the School of Applied Mathematics
of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from
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We certify that **Mohammad Fesanghary** participated in and contributed a talk entitled “**Causal Discovery in Financial Markets: What is it?**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Ryan Donnelly** participated in and contributed a talk entitled “**Insider Trading with Temporary Price Impact**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Sebastian Jaimungal** participated in and contributed a talk entitled “**Partial Information Nash Equilibria between Broker and Traders**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Silvana Pesenti** participated in and contributed a talk entitled “**Portfolio choice with α -Bregman Wasserstein penalisation**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Teemu Pennanen** participated in and contributed a talk entitled “**Duality in Convex Stochastic Optimization**” at the **19th Research in Options** held at the School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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We certify that **Xiaofei Shi** participated in and contributed a talk entitled
“The Price of Information” at the **19th Research in Options** held at
the School of Applied Mathematics of Getulio Vargas Foundation - FGV
EMAp, Rio de Janeiro, from December 4th, 2024 to December 8th, 2024.

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