

We certify that Allan Jonathan da Silva participated in 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 Antonio Augusto Bezerra participated in 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 Bernardo Costa participated in 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 Boris Ter-Avanesov participated in 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 Bruno Dupire participated in 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 Carlos de Goes Mascarenhas Filho participated in 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 Carlos Gustavo Sanchez Mejia participated in 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 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 Christiano Lo Bianco participated in 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 Oliveira participated in 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 **Daniel Roizman De Vasconcellos** participated in 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 **Darlan Augusto Araújo** participated in 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 **Diego Andrés Barbosa** participated in 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 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 Jader participated in 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 Ferioli participated in 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 Fidelis Chaves participated in 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 Fabio Marques participated in 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 Francis Araujo participated in 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 Francisco Zamora participated in 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 Gabriel Olegario Rebelo participated in 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 Gabriel Schuenker Rosa de Oliveira participated in 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 Giancarlo Salirrosas participated in 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 Gustavo Schlemper participated in 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 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 José Faias participated in 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 Guyon participated in 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 Kauan Keven Farias participated in 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 Lakshithe Wagalath participated in 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 Leonardo Sarmanho participated in 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 Luís Henrique Domingues Bueno participated in 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 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 Zanetti De Carvalho participated in 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 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 Marcus Nascimento participated in 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 Matheus Secco participated in 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 Miguel Troppmair participated in 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 Nelson Castro participated in 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 **Pedro Dallantonia** participated in 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 Pedro Guerra participated in 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 Rodrigo da Cruz Ribeiro participated in 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 Roman Rayon Padunov participated in 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 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 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 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 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 Victoria Porozova participated in 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 Vinicius Albani participated in 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 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 Yuri Saporito participated in 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 Zuilho R Castro li participated in 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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