



We certify that **Aaron Defazio** participated in and delivered the Plenary talk entitled "Schedules and Schedule-Free Learning" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Alfredo lusem** participated in and delivered the Plenary talk entitled "Univariate representations of solutions to generic polynomial complementarity problems" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Benar Svaiter** participated in and delivered the Plenary talk entitled "**Weber-Fechner Law and the Optimality of the Logarithmic Scale**" at the 1<sup>st</sup> Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation – FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Cristóbal Guzmán participated in and delivered the talk entitled "Differentially-Private Synthetic Data Generation: A Saddle-Point Approach" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Douglas Gonçalves** participated in and delivered the talk entitled "**A Levenberg--Marquardt algorithm for completely positive matrix factorization**" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Ernesto Birgin participated in and delivered the Plenary talk entitled "Regularized block coordinate descent methods: Complexity and applications" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Felipe Bueno** participated in and delivered the talk entitled "On the optimization methods with inaccurate evaluations of the functions involved" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Felipe Lara** participated in and delivered the talk entitled "Optimal Trade Characterizations in Multi-Asset Crypto Financial Markets" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Gabriel Belém participated in and delivered the talk entitled "Optimization of problems involving group sparsity" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Jefferson G. Melo participated in and delivered the talk entitled "An Inexact Proximal Gradient Method with an Explicit Linesearch" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that João Carlos de Oliveira Souza participated in and delivered the talk entitled "The difference of convex algorithms on Riemannian manifolds" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Luiz-Rafael Santos participated in and delivered the talk entitled "Randomizing Block-wise Circumcenter-Based Methods for Solving Linear Systems" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Majela Pentón Machado participated in and delivered the talk entitled "An inertial method for solving monotone inclusion problems" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Manoel Jardim participated in and delivered the Semi-Plenary talk entitled "A Dantzig-Wolfe Decomposition Method for Quasi-Variational Inequalities" at the 1st Carioca Workshop in Optimization and Applications -

CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Max Gonçalves participated in and delivered the talk entitled "On FISTA with a relative condition" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at

School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Orizon Ferreira** participated in and delivered the Plenary talk entitled "**The Busemann Subdifferential and Difference of Convex Algorithms on Hadamard Manifolds**" at the 1<sup>st</sup> **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at School of Applied Mathematics of Getulio Vargas Foundation – FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Paulo J.S. Silva participated in and delivered the talk entitled "Parallel Newton methods for the continuous quadratic knapsack problem: A Jacobi and Gauss-Seidel tale" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Roger Behling participated in and delivered the talk entitled "On Levenberg-Marquardt methods and error bound conditions" at the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Wilfredo Sosa participated in and delivered the talk entitled 
"From Euclidean segment to premonotonicity" at the 1st Carioca

Workshop in Optimization and Applications - CariOPT 2025 held at

School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp,

Rio de Janeiro, from May 05 to May 07, 2025.

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