

# AIP 2025

Applied  
Inverse  
Problems

FGV EMaP, Rio de Janeiro  
Brazil

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## CERTIFICATE

We certify that **Alessandra Serianni** participated in and delivered the poster entitled “**Learnable Priors Support Reconstruction in Diffuse Optical Tomography**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMaP, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.

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We certify that **Antonio Andrade** participated in and delivered the poster entitled  
“**On Gradient-Type Projection Methods for Nonlinear Ill-Posed Problems**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at  
the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMap,  
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We certify that **Arrienne Crystal Velasco** participated in and delivered the poster entitled “**Sensitivity analysis of the complete electrode model for electrical impedance tomography**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMap, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.



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We certify that **Enrico Campos Rossini** participated in and delivered the poster entitled “**Sub-Exponential Growth Distributions and Improvements on the Paley-Wiener-Schwartz Theorem**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMaP, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.

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We certify that **Felipe Kaminsky Riffel** participated in and delivered the poster entitled “**Effects of inertia in implicit iterative methods: experiments on nonlinear parameter identification**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMap, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.



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We certify that **Felix Schneppe** participated in and delivered the poster entitled  
“**Do we need the Adjoint to Estimate Operator Norms and Differences?**”  
at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of  
Applied Mathematics of the Getulio Vargas Foundation – FGV EMap, Rio de  
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We certify that **Jonathan Kay** participated in and delivered the poster entitled  
“**Singularly Weighted Tensor Tomography on the Disk**” at the 12th Applied  
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We certify that **Jonna Karoliina Kangasniemi** participated in and delivered the poster entitled “**Utilizing the Monte Carlo method for light transport to estimate absorption and scattering in optical tomography**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMap, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.

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We certify that **Juan Urueña** participated in and delivered the poster entitled “**An a-posteriori criteria for choosing Lagrange multipliers in nonstationary iterated Tikhonov method**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMap, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.

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We certify that **Jürgen Friel** participated in and delivered the poster entitled  
“**Data-Proximal Neural Networks for Limited-View CT**” at the 12th Applied  
Inverse Problems Conference (AIP 2025), held at the School of Applied  
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We certify that **Lara Baalbaki** participated in and delivered the poster entitled  
“**Stability estimates of a stochastic inverse source problem for a class  
of elliptic multipliers**” at the 12th Applied Inverse Problems Conference (AIP  
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We certify that **Marco Antônio Pauleti** participated in and delivered the poster entitled “**nexact Newton regularizations with uniformly convex stability terms: A unified convergence analysis**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMap, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.

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We certify that **Marcos Antonio Obando** participated in and delivered the poster entitled “**Sequential Optimal Experimental Design for Single-Pixel Imaging using Reinforcement Learning**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMaP, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.

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We certify that **Margaret Duff** participated in and delivered the poster entitled  
“**Deterministic and Stochastic Optimisation Framework using the Core  
Imaging Library and Synergistic Image Reconstruction Framework for  
CT and PET Reconstruction**” at the 12th Applied Inverse Problems Conference  
(AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas  
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We certify that **Miika Suhonen** participated in and delivered the poster entitled  
“**Simultaneous reconstruction of initial pressure and speed of sound  
distributions in photoacoustic tomography**” at the 12th Applied Inverse  
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We certify that **Nasrin Nikbakht** participated in and delivered the poster entitled  
“**Adaptive Spectral Inversion for Eigenfunction Selection in Inverse  
Source Problems**” at the 12th Applied Inverse Problems Conference (AIP 2025),  
held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV  
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We certify that **Niko Hänninen** participated in and delivered the poster entitled  
“**Estimating Optical Parameters in Quantitative Photoacoustic Tomography**” at the 12th Applied Inverse Problems Conference (AIP 2025), held  
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We certify that **Rose Anne Alas** participated in and delivered the poster entitled  
“**A Sensitivity-Based Algorithm Approach in Reconstructing Images in  
Electrical Impedance Tomography**” at the 12th Applied Inverse Problems  
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We certify that **Seiji Hansen** participated in and delivered the poster entitled “**Fine mapping properties of the Radon transform near the boundary of the closed unit ball**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMaP, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.

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We certify that **Zhengyi Qi** participated in and delivered the poster entitled “**Some non-constant curvature disks with blow-down structure**” at the 12th Applied Inverse Problems Conference (AIP 2025), held at the School of Applied Mathematics of the Getulio Vargas Foundation – FGV EMap, Rio de Janeiro, Brazil, from July 28 to August 01, 2025.

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