



PÓS-GRADUAÇÃO
ESTATÍSTICA

CERTIFICATE Of Attendance

We certify that **Anatoly Yambartsev** participated and gave the talk entitled **Two models for bid-ask spread dynamics: asymptotic analysis of highly competitive and liquid fluctuations regimes** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

FERNANDA DE BASTIANI
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COMMITTEE

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We certify that **Jean-Rene Chazottes** participated and gave the talk entitled **Quasi-stationary distributions, extinction and resilience in ecological models** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Gustavo Oshiro de Carvalho** participated and gave the talk entitled **The frog model on complete graphs** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Fábio Prates Machado** participated and gave the talk entitled **Evaluating dispersion strategies in growth models subject to geometric catastrophes** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Daniel Yasumasa Takahashi** participated and gave the talk entitled **Sparse Markov Models for High-dimensional Inference** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Florencia Leonardi** participated and gave the talk entitled **Community detection with maximum and integrated conditional likelihood for the Stochastic Block Model** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Fernando H. Taques** participated and gave the talk entitled **Patents, investments in R&D, and market value: an analysis by company size** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Victor D. Heuer de Carvalho** participated and gave the talk entitled **Perspectives for an AI-Based Decision Support Framework in Public Administration** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Thiago Poletto** participated and gave the talk entitled **Applying spatial decision support for maternal mortality analysis in a Brazilian state** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Henrique Pinto dos Santos Zaidan** participated and gave the talk entitled **Hierarchical Game: An application of a three-person game in the pricing of product warranty** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **José Fernando Fontanari** participated and gave the talk entitled **Citation counts: the world of sleeping beauties and shooting stars** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Paulo Roberto de Araujo Campos** participated and gave the talk entitled **Phenotypic evolution as an Ornstein-Uhlenbeck process: the effect of environmental variation and phenotypic plasticity** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Nathan Lima Pessoa** participated and gave the talk entitled **Multifractal polarization time series of fish groups** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Mateus Francisco Batista Granha** participated and gave the talk entitled **Impacts of collective behavior on socioeconomic dynamics** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Clécio da Silva Ferreira** participated and gave the talk entitled **Partially linear models with p-order autoregressive skew-normal errors** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Carlos Antonio Abanto Valle** participated and gave the talk entitled **Approximate Bayesian Estimation of Stochastic Volatility in Mean Models Using Hidden Markov Models: Empirical Evidence from Emerging and Developed Markets** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Rolando de la Cruz Mesía** participated and gave the talk entitled **A joint analysis proposal of nonlinear longitudinal and time-to-event right-, interval-censored data** at the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Alex Ramos** organized the Thematic Session entitled **Stochastic processes and their applications** in the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Pablo Rodriguez** organized the Thematic Session entitled **Stochastic processes and their applications** in the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Viviane Oliveira** organized the Thematic Session entitled **Statistics applied to biologically and socially motivated problems** in the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Thyago C. C. Nepomuceno** organized the Thematic Session entitled **Mathematical Modelling of Socioeconomic Events** in the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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We certify that **Aldo Medina Garay** organized the Thematic Session entitled **Recent Advances in Statistical Modeling** in the I Workshop on Applied Statistics and Stochastic Processes (WASSP) held at Center for Exact and Natural Sciences at Federal University of Pernambuco (CCEN-UFPE), Recife, Pernambuco, Brazil, from November 29th to December 1st, 2023.

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