JULIO MICHAEL STERN

IME-USP – Instituto de Matemática e Estatística da Universidade de São Paulo.
URL: www.ime.usp.br/∼jmstern

e-mail1: jstern@ime.usp.br
e-mail2: jmstern@hotmail.com
Celular: +55-11-97697-7889

Dados Pessoais

Documentos: Nato 22-12-58, São Paulo; RG 9.948.831 SSP-SP; CPF 064.930.668-67.
ORCID: 0000-0003-2720-3871; ResearcherID: C-1128-2013; Lattes ID: 9582404119292455.
Bibliometria (Google Scholar 12/2023): Citations= 2168; h-index= 26; i10-index= 49.
Casado: Marisa Bassi Stern, 24-11-1984; Filhos: Rafael Bassi Stern, 07-05-1985;
Ana Carolina Bassi Stern, 02-04-1987; Deborah Bassi Stern, 17-08-1990.

I - Títulos e Habilitações Acadêmicas

Professor Titular, Universidade de São Paulo, Matemática Aplicada.	2010
Livre Docente., Universidade de São Paulo, Ciência da Computação.	2002
Doutor em Filosofia, Universidade de Cornell, EUA, Pesquisa Operacional.	1991
Mestre em Engenharia, Universidade de Cornell, EUA, Pesquisa Operacional.	1990
Mestre em Ciência, Universidade de São Paulo, Física Matemática.	1983
Bacharel, Universidade de São Paulo, Física.	1981

II - Posições Acadêmicas e Comunitárias (até 2023)

Coord. Escritório de Proteção de dados e informações - EPDI-USP.	desde 2022
Cadeira 18 da ABF - Academia Brasileira de Filosofia.	desde 2019
Conselheiro Científico da ABJ - Associação Brasileira de Jurimetria.	desde 2017
Presidente do Conselho de Pesquisa, CPq, IME-USP.	2016-2020
Presidente, ISBrA - Capítulo Brasileiro da Soc. Internac. para Análise Bayesiana.	2010-2012
Pesquisador, CNPq - Conselho Nacional de Pesquisa e Desenvolvimento.	2003-2025
Diretor, Clube A Hebraica de São Paulo.	2003-2008
Professor Assistente, Associado, Universidade de São Paulo.	1983-2002-2009

III - Anais de Eventos Científicos Editados

▷ A.Polpo, F.Louzada, H.Takada, J.M.Stern (2018). MaxEnt'17 - Bayesian Inference and Maximum Entropy Methods in Science and Engineering. *Springer Proceedings in Mathematics and Statistics*, 239.
▷ A.Polpo, F.Louzada, L.L.R Rifo, J.M.Stern, M.Lauretto, eds. (2015). Interdisciplinary Bayesian Statistics, EBEB 2014. *Springer Proceedings in Mathematics and Statistics*, 118.
▷ J.M.Stern, M.S.Lauretto, A.Polpo, M.A.Diniz (2012). EBEB-2012, XI Brazilian Meeting on Bayesian Statistics. *American Institute of Physics Conference Proceedings,* 1490.
▷ M.S.Lauretto, C.A.B.Pereira, J.M.Stern (2008). MaxEnt'08 - Bayesian Inference and Maximum Entropy Methods in Science and Engineering. *American Institute of Physics Conference Proceedings*, 1073.

IV - Seleção de Artigos Publicados (Résumé 2 páginas; ★, ∗ = 5 + 7 principais)

• Lógica, Epistemologia e Filosofia da Ciência

★ J.M.Stern, C.A.B.Pereira, M.S.Lauretto, L.G.Esteves, R.Izbicki, R.B.Stern, M.A.Diniz (2024). The e-value and the Full Bayesian Significance Test: Logical Properties and Philosophical Consequences. `arXiv:2205.08010`

∗ J.M.Stern (2020). A Sharper Image: The Quest of Science and Recursive Production of Objective Realities. *Principia*, 24, 2, 255-297.

▷ J.M.Stern (2020). Jacob's Ladder: Logics of Magic, Metaphor and Metaphysics. *Sophia*, 59, 365-385.

▷ L.G.Esteves, R.Izbicki, R.B.Stern, J.M.Stern (2019). Pragmatic Hypotheses in the Evolution of Science. *Entropy*, 21, 883, 1-17.

▷ J.M.Stern (2018). Verstehen (causal/ interpretative understanding), Erklären (law-governed description/ prediction), and Empirical Legal *JITE - Studies. J. of Institutional & Theoretical Economics*, 174, 1-10.

▷ J.M.Stern (2018). Karl Pearson and the Logic of Science: Renouncing Causal Understanding (the Bride) and Inverted Spinozism. *South Am. J. of Logic*, 4, 1, 219-252.

▷ J.M.Stern, R.Izbicki, L.G.Esteves, R.B.Stern (2017). Logically-Consistent Hypothesis Testing and the Hexagon of Oppositions. *Log. J. IGPL.*, 23, 5, 732-758.

▷ J.M.Stern (2017). Continuous Versions of Haack's Puzzles: Equilibria, Eigen-States and Ontologies.

Log. J. IGPL., 25, 4, 604-631.

▷ L.G.Esteves, R.Izbicki, J.M.Stern, R.B.Stern (2016). The Logical Consistency of Simultaneous Agnostic Hypothesis Tests. *Entropy* 18, 256, 1-32.

▷ J.M.Stern (2015). Cognitive-Constructivism, Quine, Dogmas of Empiricism, and Münchhausen's Trilemma. *Springer Proc. in Mathematics & Statistics*, 118, 55-68.

▷ J.M.Stern (2014). Jacob's Ladder & Scientific Ontologies. *Cybernetics & Human Knowing*, 21, 3, 9-43.

▷ J.M.Stern, C.A.B.Pereira (2014). Bayesian Epistemic Values: Focus on Surprise, Measure Probability. *Log. J. IGPL.*, 22, 2, 236-254.

▷ J.M.Stern (2011). Symmetry, Invariance and Ontology in Physics and Statistics. *Symmetry*, 3, 3, 611-635.

▷ J.M.Stern (2011). Constructive Verification, Empirical Induction, and Falibilist Deduction: A Threefold Contrast. *Information*, 2, 635-650.

▷ J.M.Stern (2008). Decoupling, Sparsity, Randomization, and Objective Bayesian Inference. *Cybernetics & Human Knowing*, 15, 2, 49-68.

▷ W.Borges, J.M.Stern (2007). The Rules of Logic Composition for the Bayesian Epistemic e-Values. *Log. J. IGPL.*, 15, 5-6, 401-420.

▷ J.M.Stern (2007). Language and Self-Reference Paradox. *Cybernetics & Human Knowing,* 14, 4, 71-92.

▷ J.M.Stern (2007). Cognitive Constructivism, Eigen-Solutions, and Sharp Statistical Hypotheses. *Cybernetics & Human Knowing,* 14, 1, 9-36.

▷ J.M.Stern (2004). Paraconsistent Sensitivity Analysis for Bayesian Significance Tests. *LNAI*, 3171, 134-143.

▷ J.M.Stern (2003). Signicance Tests, Belief Calculi, and Burden of Proof in Legal and Scientic Discourse. *Frontiers in Artificial Intelligence and Applic.*, 101, 139-147.

• Estatística, Teoria e Métodos

★ C.A.B.Pereira; J.M.Stern (2020). The e-value: A Fully Bayesian Significance Measure for Precise Statistical Hypotheses and its Research Program. *Sao Paulo J. Math. Sci.* doi:10.1007/s40863-020-00171-7

▷ D.Marcondes, C.Peixoto, J.M.Stern (2019). Assessing Randomness in Case Assignment – Brazilian Supreme Court. *Law, Probability and Risk*, 18, 2-3, 97-114.

★ M.S.Lauretto, R.B.Stern, K.L.Morgan, M.H.Clark, J.M.Stern (2017). Haphazard Intentional Allocation and Rerandomization to Improve Covariate Balance in Experiments. *Am.Inst. Physics Conf.Proc.*, 1853, 0503, 1-8.

▷ V.Fossaluza, M.S.Lauretto, C.A.B.Pereira, J.M.Stern (2015). Combining Optimization and Randomization Approaches for the Design of Clinical Trials. *Springer Proc. in Mathematics and Statistics*, 118, 173-184.

▷ M.S.Lauretto, F.Nakano, C.A.B.Pereira, J.M.Stern (2012). Intentional Sampling by Goal Optimization with Decoupling by Stochastic Perturbation. *Am.Inst. Physics Conf.Proc.*, 1490, 189-201.

▷ M.Diniz, C.A.B.Pereira, J.M.Stern (2012). Cointegration: Bayesian Significance Test. *Communications in Statistics - Theory & Methods*, 41, 19, 3562-3574.

✳ M.Diniz, C.A.B.Pereira, J.M.Stern (2011). Unit Roots: Bayesian Significance Test. *Communications in Statistics - Theory & Methods*, 40, 23, 4200-4213.

★ C.A.B.Pereira, J.M.Stern, S.Wechsler (2008). Can a Significance Test be Genuinely Bayesian? *Bayesian Analysis,* 3, 79-100.

▷ C.A.B.Pereira, J.M.Stern (2008). Special Characterizations of Standard Discrete Models. *RevStat*, 6, 199-230.

▷ M.Lauretto, S.R.Faria, C.A.B.Pereira, J.M.Stern (2007). The Problem of Separate Hypotheses via Mixtures Models. *Am.Inst. Physics Conf.Proc.*, 954, 268-275.

✳ M.Lauretto, C.A.B.Pereira, J.M.Stern, S.Zacks (2003). Full Bayesian Signicance Test Applied to Multivariate Normal Structure Models. *Brazilian Journal of Probability and Statistics*, 17, 147-168.

▷ M.R.Madruga, C.A.B.Pereira, J.M.Stern (2003). Bayesian Evidence Test for Precise Hypotheses. *Journal of Statistical Planning and Inference*, 117, 185-198.

▷ J.M.Stern, S.Zacks (2002). Testing the Independence of Poisson Variates under the Holgate Bivariate Distribution. *Stat. Probab. Lett.*, 60, 3, 1, 313-320.

★ C.A.B.Pereira, J.M.Stern (1999). Evidence and Credibility: Full Bayesian Signicance Test for Precise Hypotheses. *Entropy*, 1, 69-80.

• Sistemas Esparsos e Estruturados / Métodos Numéricos / Pesquisa Operacional

▷ O.Saa, J.M.Stern (2019). Auditable Blockchain Randomization Tool. *Proceedings*, 33, 1, 17, 1-6.

▷ O.L.V.Costa, C.O.Ribeiro, E.E.Rego, J.M.Stern, V. Parente, S.Kileber (2017). Robust Portfolio Optimization for Electricity Planning: Brazilian Electricity Mix. *Energy Economics*, 64, 158-169.

✳ C.Humes, M.S.Lauretto, F.Nakano, C.A.B.Pereira, G.F.G.Rafare, J.M.Stern (2012). TORC3: Token-Ring Clearing Heuristic for Currency Circulation. AIP v.1490, pp.179-188. Patente INPI 04203-6 de 20/06/2023.

▷ R.Inhasz, J.M.Stern (2010). Emergent Semiotics in Genetic Programming and the Self-Adaptive Semantic Crossover. *Stud. in Computat. Intell.*, 314, 381-392.

✳ J.M.Stern, E.C.Colla (2009). Factorization of Sparse Bayesian Networks. *Stud. Computat. Intell*; 199, 275-294.

▷ M.S.Lauretto, F.Nakano, C.A.B.Pereira, J.M.Stern (2009). Hierarchical Forecasting with Polynomial Nets. *Stud. Computat. Intell*; 199, 305-315.

▷ M.S.Lauretto, F.Nakano, S.R.Faria, C.A.B.Pereira, J.M.Stern (2009). A Straightforward Multiallelic Significance Test for the Hardy-Weinberg Equilibrium Law. *Genetics and Molecular Biology*, 32, 619-625.

▷ P.J.Fernandes, J.M.Stern, M.S.Lauretto (2007). A New Media Optimizer Based on the Mean-Variance Model. *Pesquisa Operacional*, 27, 427-456.

▷ M.V.P.Garcia, C.Humes Jr, J.M.Stern (2003). Generalized Line Criterion for Gauss-Seidel Method. *Computational and Applied Mathematics*, 22, 91-97.

▷ M.S.Lauretto, F.Nakano, C.Ribeiro, J.M.Stern (1998). Real Attribute Learning Algorithm. *ISAS-SCI*, 2, 315-321

▷ J.M.Stern, S.A.Vavasis (1994). Active Set Methods for Problems in Column Block Angular Form. *Computational and Applied Mathematics*, 12, 199-226.

✳ J.M.Stern (1992). Simulated Annealing with a Temperature Dependent Penalty Function. *ORSA Journal on Computing*, 4, 311-319.