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## DADOS PESSOAIS

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Bibliometria: (Google Scholar 10/2025): Citations= 2333; h-index= 26; i10-index= 53.

## I - TÍTULOS E HABILITAÇÕES ACADÊMICAS

|                                                                           |      |
|---------------------------------------------------------------------------|------|
| 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 2025)

|                                                                                   |                |
|-----------------------------------------------------------------------------------|----------------|
| PROFESSOR ASSISTENTE, ASSOCIADO, TITULAR, IME-USP – Univ. de São Paulo.           | 1983-2002-2010 |
| MEMBRO, CLE - Centro de Lógica, Epistemologia e História da Ciência, UniCamp.     | desde 2025     |
| 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      |

## III - EDIÇÃO DE ANAIS E ORGANIZAÇÃO DE EVENTOS CIENTÍFICOS (ATÉ 2025)

|                                                                                                                                                                                                           |                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▷ J.Y.Beziau, J.M.Stern (2026). <i>New Articulations of the Theory of Oppositions</i> . 7th World Cong. on the Square of Opposition. Birkhäuser. ISBN:978-3-032-13066-2                                   | (2015). Interdisciplinary Bayesian Statistics, EBEB-2014 <i>Springer Proc. in Mathematics and Statistics</i> , 118.                                                      |
| ▷ A.Polpo, F.Louzada, H.Takada, J.M.Stern (2018). MaxEnt'17 - Bayesian Inference and Maximum Entropy Methods in Science and Engineering. <i>Springer Proceedings in Mathematics and Statistics</i> , 239. | ▷ J.M.Stern, M.S.Lauretto, A.Polpo, M.A.Diniz (2012). EBEB-2012, XI Brazilian Meeting on Bayesian Statistics. <i>American Inst. of Physics Conf. Proceedings</i> , 1490. |
| ▷ A.Polpo, F.Louzada, L.Rifo, J.M.Stern, M.S.Lauretto                                                                                                                                                     | ▷ M.S.Lauretto, C.A.B.Pereira, J.M.Stern (2008). Max-Ent'08 - Bayesian Inference & Maximum Entropy Methods in Science and Engineering. <i>AIP Conf. Proc.</i> , 1073.    |

## IV - SELEÇÃO DE ARTIGOS PUBLICADOS (RÉSUMÉ 2 PÁGINAS; ★, \* = 5, +10 PRINCIPAIS)

### • INFERÊNCIA 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 (2022/26). The e-value and the Full Bayesian Significance Test: Logical Properties and Philosophical Consequences. arXiv:2205.08010 in Walter Carnielli's <i>OCTR</i> , ISBN:978-3-032-11026-8 | ▷ L.G.Esteves, R.Izbicki, R.B.Stern, J.M.Stern (2019). Pragmatic Hypotheses in the Evolution of Science. <i>Entropy</i> , 21, 883, 1-17.                                                                                          |
| ▷ J.M.Stern (2024). Dynamic Oppositional Symmetries for Color, Jungian and Kantian Categories. <i>Logica Universalis</i> , 18, 235-282.                                                                                                                                               | ▷ J.M.Stern (2018). Verstehen (causal/ interpretative understanding), Erklären (law-governed description/ prediction), and Empirical Legal Studies. <i>JITE - Journal of Institutional and Theoretical Economics</i> , 174, 1-10. |
| ▷ J.M.Stern (2022). Color-Coded Epistemic Modes in a Jungian Hexagon of Opposition. pp.303-332 in J.Y.Beziau, I.Vandoulakis <i>The Exoteric Square of Opposition</i> .                                                                                                                | ★ J.M.Stern (2018). Karl Pearson and the Logic of Science: Renouncing Causal Understanding (the Bride) and Inverted Spinozism. <i>South Am. J. of Logic</i> , 4, 1, 219-252.                                                      |
| ★ J.M.Stern (2020). A Sharper Image: The Quest of Science and Recursive Production of Objective Realities. <i>Principia</i> , 24, 2, 255-297.                                                                                                                                         | ★ J.M.Stern, R.Izbicki, L.G.Esteves, R.B.Stern (2017). Logically-Consistent Hypothesis Testing and the Hexagon of Oppositions. <i>Log. J. IGPL.</i> , 23, 5, 732-758.                                                             |
| * J.M.Stern (2020). Jacob's Ladder: Logics of Magic, Metaphor and Metaphysics. <i>Sophia</i> , 59, 365-385.                                                                                                                                                                           | * J.M.Stern (2017). Continuous Versions of Haack's Puzzles: Equilibria, Eigen-States and Ontologies. <i>Logic Journal of the IGPL</i> , 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 (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. *Logic Journal of the 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 Fallibilist Deduction: A Threefold Contrast. *Information*, 2, 635-650.
- ▷ J.M.Stern (2008). Decoupling, Sparsity, Randomization, Objective Bayesian Inference. *C&HK*, 15, 2, 49-68.
- \* W.Borges, J.M.Stern (2007). The Rules of Logic Composition for the Bayesian Epistemic e-Values. *Logic Journal of the 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). Significance Tests, Belief Calculi, and Burden of Proof in Legal and Scientific Discourse. *Frontiers in Artificial Intelligence and Applic.*, 101, 139-147.

## • ESTATÍSTICA, TEORIA E MÉTODOS

- ▷ J.M.Stern (2025). e-value: Epistemic Value of Statistical Hypotheses. ent.188, pp.863-867, M.Lovric, *International Encyclopedia of Statistical Science*. Springer.
- ▷ F.Correa, J.M.Stern, R.B.Stern (2025). Nonparametric Full Bayesian Significance Testing for Bayesian Histograms. *MaxEnt'24*, doi:10.3390/psf2025012011
- ▷ R.F.L.Lassance, J.M.Stern, R.B.Stern (2025). Nonparametric FBST for Validating Linear Models. *MaxEnt'24*, doi:10.3390/psf2025012002
- ▷ C.A.B.Pereira; J.M.Stern (2022). The e-value: A Fully Bayesian Significance Measure for Precise Statistical Hypotheses and its Research Program. *São Paulo Journal of Mathematical Sciences*, 16, 566-584.
- ▷ 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.Fossaluzza, 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.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 Significance 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 Significance Test for Precise Hypotheses. *Entropy*, 1, 69-80.

## • SISTEMAS ESPARSOS E ESTRUTURADOS / MÉTODOS NUMÉRICOS / PESQUISA OPERACIONAL

- \* Patente INPI 04203-6 de 20/06/2023 – 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 Conf. Proc.* 1490, 179-188.
- ▷ J.M.Stern, M.A.Simplicio, M.Silva, R.C.Pfeiffer (2020). Randomization and Fair Judgment in Law and Science. p.379-398, ISBN 978-1-84890-351-7 arXiv:2008.06709
- ▷ O.T.Saa, J.M.Stern (2019). Auditable Blockchain Randomization Tool. *MDPI Proceedings*, 33, 1, 17, 1-6.
- ▷ J.M.Stern, F.Nakano (2014). Optimization Models for Reaction Networks: Information Divergence, Quadratic Programming and Kirchhoff's Laws. *Axioms*, 3, 109-118.
- ▷ 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. *Studies in Computational Intelligence*, 199, 305-315.
- ▷ 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.
- ▷ C.A.B.Pereira, J.M.Stern (1999) A Dynamic Software Certification & Verification Procedure *ISAS-SCI*, 2, 426-435
- ▷ 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.