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PERSONAL DATA

Born: 22-12-58, São Paulo; RG: 9.948.831 SSP-SP; CPF: 064.930.668-67.
Married: Marisa Bassi Stern, 24-11-1984; Children: Rafael Bassi Stern, 07-05-1985; Ana Carolina Bassi Stern, 02-04-1987; Deborah Bassi Stern, 17-08-1990.
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Bibliometrics: (Google Scholar 10/2025): Citations= 2333; h-index= 26; i10-index= 53.

I - ACADEMIC DEGREES AND HABILITATIONS

HABILITATION (LIVRE DOCENTE), University of São Paulo, Computer Science.	2002
DOCTOR OF PHILOSOPHY, Cornell University, USA, Operations Research.	1991
MASTER OF ENGINEERING, Cornell University, USA, Operations Research.	1990
MASTER OF SCIENCE, University of São Paulo, Mathematical Physics.	1983
BACHELOR, University of São Paulo, Physics.	1981

II - ACADEMIC AND COMMUNITY POSITIONS (UP TO 2025)

ASSISTENT, ASSOCIATE, FULL PROFESSOR, IME-USP – University of São Paulo.	1983-2002-2010
MEMBER, CLE - Center for Logic, Epistemology and History of Science, UniCamp.	since 2025
CHAIR 18 OF ABF - Brazilian Academy of Philosophy.	since 2019
SCIENTIFIC COUNCIL OF ABJ - Brazilian Jurimetrics Association.	since 2017
HEAD OF RESEARCH COUNCIL, CPq, IME-USP.	2016-2020
PRESIDENT, ISBrA - Brazilian chapter International Soc. for Bayesian Analysis.	2010-2012
RESEARCH FELLOW, CNPq - National Council for Science and Technology.	2003-2025
DIRECTOR, A Hebraica Club of São Paulo.	2003-2008

III - EDITED PROCEEDINGS AND ORGANIZATION OF SCIENTIFIC EVENTS (UP TO 2025)

- ▷ J.Y.Beziau, J.M.Stern (2026). *New Articulations of the Theory of Oppositions*. 7th World Cong. on the Square of Opposition. Birkhäuser. ISBN:978-3-032-13066-2
- ▷ 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.Rifo, J.M.Stern, M.S.Lauretto (2015). Interdisciplinary Bayesian Statistics, EBEB-2014 *Springer Proc. 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 Inst. of Physics Conf. Proceedings*, 1490.
- ▷ M.S.Lauretto, C.A.B.Pereira, J.M.Stern (2008). Max-Ent'08, Bayesian Inference and Maximum Entropy Methods in Science and Engineering. *AIP Conf. Proc.*, 1073.

IV - SELECTION OF PUBLISHED ARTICLES (TWO-PAGE RÉSUMÉ; ★, * = TOP 5, +10)

• LOGICAL INFERENCE, EPISTEMOLOGY AND PHILOSOPHY OF SCIENCE

- ▷ 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 *OCTR*, ISBN:978-3-032-11026-8
- ▷ J.M.Stern (2024). Dynamic Oppositional Symmetries for Color, Jungian and Kantian Categories. *Logica Universalis*, 18, 235-282.
- ▷ J.M.Stern (2022). Color-Coded Epistemic Modes in a Jungian Hexagon of Opposition. pp.303-332 in J.Y.Beziau, I.Vandoulakis *The Exoteric Square of Opposition*.
- ★ 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 Studies. *JITE - Journal of Institutional and 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. *Logic Journal of the 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 (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.

• STATISTICS, THEORY AND METHODS

- ▷ 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.

• SPARSE AND STRUCTURED SYSTEMS / NUMERICAL METHODS / OPERATIONS RESEARCH

- * Patent INPI 04203-6 of 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.