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Personal Data

DOCUMENTS: Born 22-12-58 São Paulo; RG CPF
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.

Academic Degrees and Habilitations

FULL PROFESSOR. University of São Paulo. Applied Mathematics.	2010
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

Academic and Community Positions (up to 2011)

LEVEL 1 RESEARCHER. CNPq - National Council for Science and Technology.	2003-2011
PRESIDENT. ISBrA - Brazilian chap. International Society for Bayesian Analysis.	2010-2011
ASSISTANT, ASSOCIATE PROFESSOR. University of São Paulo.	1983-2002-2009
RESEARCH FELLOW. Argonne National Laboratory, Dept.of Energy, USA.	Summer 1990
DIRECTOR. A Hebraica Club of São Paulo.	2003-2008

Published Books

- J.M.Stern (2008). *Cognitive Constructivism and the Epistemic Significance of Sharp Statistical Hypotheses*. Rio Pardo: Editora Viena. Text book for tutorial at MaxEnt'08, and USP disciplines MAE-5747 in 2006 and 2007, and MAP-5779 in 2009 and 2010.
- M.S.Lauretto, C.A.B.Pereira, J.M.Stern, eds. (2008). *MaxEnt'08 - Bayesian Inference and Maximum Entropy Methods in Science and Engineering*. Melville, NY: American Institute of Physics. *AIP Conference Proceedings*, 1073.
- J.M.Stern, R.Terada (1996-2008). *Vade-MeCum, A Guide to C Programming* (in Portuguese). IME-USP. Prepared by the first author in 1994, reconciling the theoretical and instrumental approaches for introductory programming. Revised and extended by both authors in 1996, is one of the most used didactic texts in the history of the University of São Paulo.
- J.M.Stern et al (1996-2008). *Optimization Methods in Economy and Finance* (in Portuguese). Goiânia: XIX Cong.Nac.de Matemática Aplicada e Computacional, 1996. IME-USP, 2008. Text prepared for the USP-BM&F project in 1994, is used at USP disciplines MAC/MAP-419, EAE-866, MAC-5796 and MAP-5747, and also at MBAs of BOVESPA-BM&F.
- J.M.Stern (1994). *Sparsity, Structure, Stability and Scaling in Numerical Linear Algebra* (in Portuguese). Recife: IX Escola de Computação. Text book for MAC-300 and MAC-5795, disciplines created at that time to cover numerical methods for sparse and structured matrices.

Selection of Pulished Articles

Epistemology and Logic

- J.M.Stern (2011). Spencer-Brown vs. Probability and Statistics: Entropy's Testimony on Subjective and Objective Randomness. *Information*, 2, 2, 277-301.
- J.M.Stern (2008). Decoupling, Sparsity, Randomization, and Objective Bayesian Inference. *Cybernetics and Human Knowing*, 15, 2, 49-68.
- W.Borges, J.M.Stern (2007). The Rules of Logic Composition for the Bayesian Epistemic e-Values. *Logic J. of the IGPL*, 15, 5-6, 401-420.
- J.M.Stern (2007). Language and the Self-Reference Paradox. *Cybernetics and Human Knowing*, 14, 4, 71-92.
- J.M.Stern (2007). Cognitive Constructivism, Eigen-Solutions, and Sharp Statistical Hypotheses. *Cybernetics and Human Knowing*, 14, 1, 9-36.
- J.M.Stern (2006). Language, Metaphor and Metaphysics: The Subjective Side of Science. RT-MAC-06-09 (submitted).
- J.M.Stern (2004). Paraconsistent Sensitivity Analysis for Bayesian Significance Tests. SBIA'04, *Lecture Notes Artificial Intell.*, 3171, 134-143.
- J.M.Stern (2003). Significance Tests, Belief Calculi, and Burden of Proof in Legal and Scientific Discourse. Laptec-2003, *Frontiers in Artificial Intelligence and its Applications*, 101, 139-147.

Statistics, Theory and Methods

- P.C.Hubert Jr., M.Lauretto, J.M.Stern (2009). FBST for a Generalized Poisson Distribution. *AIP Conference Proceedings*, accepted.
- 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 Characterization of Standard Discrete Models. *RevStat - Statistical Journal*, 6, 199-230.
- M.Diniz, C.A.B.Pereira, J.M.Stern (2008). FBST for Cointegration Problems. *AIP Conference Proceedings*, 1073, 157-164.
- M.Lauretto, S.R.Faria, C.A.B.Pereira, J.M.Stern (2007). The Problem of Separate Hypotheses via Mixtures Models. *AIP Conference Proceedings*, 954, 268-275.
- M.Diniz, C.A.B.Pereira, J.M.Stern (2007). FBST for Unit Root Problems. *AIP Conference Proceedings*, 954, 260-267.
- M.Lauretto, J.M.Stern (2005). Testing Significance in Bayesian Classifiers. *Frontiers in Artificial Intelligence and Applications*, 132, 34-41.
- 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 (2003). Sequential Estimation of Ratios, with Applications to Bayesian Analysis. RT-MAC-03-10.
- J.M.Stern, S.Zacks (2002). Testing Independence of Poisson Variates under the Holgate Bivariate Distribution. The Power of a New Evidence Test. *Statistical and Probability Letters*, 60, 313-320.
- C.A.B.Pereira, J.M.Stern (2001). Model Selection and Regularization: Full Bayesian Approach. *Environmetrics*, 12, 6, 559-568.
- C.A.B.Pereira, J.M.Stern (2001). Full Bayesian Significance Tests for Coefficients of Variation. p. 391-400 in: E.I.George ed. *Bayesian Methods with Applications to Science, Policy, and Official Statistics*.
- C.A.B.Pereira, J.M.Stern (1999). Evidence and Credibility: Full Bayesian Significance Test for Precise Hypotheses. *Entropy Journal*, 1, 69-80.

Sparse and Structured Systems

- R.Inhasz, J.M.Stern (2010). Emergent Semiotics in Genetic Programming and the Self-Adaptive Semantic Crossover. p.381-392 in L. Magnani, W.Carnielli (2010). *Model-Based Reasoning in Science & Technology*, SCI 314. NY: Springer.
- J.M.Stern, E.C.Colla (2009). Factorization of Sparse Bayesian Networks. p.275-294 in: K.Nakamatsu, G.Phillips-Wren, L.C.Jain, R.J.Howlett, eds. *New Advances in Intelligent Decision Technologies*. Heidelberg: Springer.
- M.Lauretto, F.Nakano, C.A.B.Pereira, J.M.Stern (2009). Hierarchical Forecasting with Polynomial Nets. In Nakamatsu (2009), 305-315.
- M.V.P.Garcia, C.Humes Jr, J.M.Stern (2003). Generalized Line Criterion for Gauss-Seidel Method. *Computat.and Applied Math.*, 22, 91-97.
- 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, S.A.Vavasis (1993). Nested Dissection for Sparse Nullspace Bases. *SIAM Journal of Matrix Analysis and Applications*, 14, 766-775.
- J.M.Stern (1992). Simulated Annealing with a Temperature Dependent Penalty Function. *ORSA Journal on Computing*, 4, 311-319.

Mathematical Modeling and Operations Reserach

- M.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, 3, 619-625.
- M.Lauretto, C.A.B.Pereira, J.M.Stern (2008). The Full Bayesian Significance Test for Mixture Models: Results in Gene Expression Clustering. *Genetics and Molecular Research*, 7, 883-897, 2008.
- P.J.Fernandes, J.M.Stern, M.S.Lauretto (2007). A New Media Optimizer Based on the Mean-Variance Model. Presented at ARF'05 - Advertising Research Foundation Conference. *Pesquisa Operacional*, 27, 427-456.
- F.Nakano, C.A.B.Pereira, J.M.Stern, M.R.Whittle (2006). Genuine Bayesian Multiallelic Significance Test for the Hardy-Weinberg Equilibrium Law. *Genetics and Molecular Research*, 4, 619-631.
- C.A.B.Pereira, F.Nakano, J.M.Stern (2003). A Model for Defined Benefit Plans. p.176-181 in J.Dhaene, N.Kolev, P.Morettin eds. *Proceedings of the First Brazilian Conference on Statistical Modelling in Insurance and Finance*. IME-USP.
- A.M.S.Bueno, C.A.B.Pereira, M.N.Rabelo-Gay, J.M.Stern (2002). Environmental Genotoxicity Evaluation: Bayesian Approach for a Mixture Statistical Model. *SERRA - Stochastic Environmental Research and Risk Assessment*, 16, 267-278.
- T.Z.Irony, M.Lauretto, C.A.B.Pereira, and J.M.Stern (2002). A Weibull Wearout Test: Full Bayesian Approach. p. 287-300 Y.Hayakawa, T.Irony, M.Xie, eds. *Systems and Bayesian Reliability, Quality, Reliability and Engineering Statistics*, 5, Singapore: World Scientific.
- C.A.B.Pereira, J.M.Stern (1999). A Dynamic Software Certification and Verification Procedure. *ISAS-SCT'99 Proceedings*, 2, 426-435.
- M.Lauretto, F.Nakano, C.Ribeiro, J.M.Stern (1998). Real Attribute Learning Algorithm. *ISAS-SCT'98 Proceedings*, 2, 315-321.