

Capacity Building and Biography of Professor Heleno Bolfarine

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13/07/2021

ISI Mahalanobis International Award Session

Presentation outline

1. Short biography

2. Capacity Building

1. Short biography

- ▶ Born in 1949 in Cândido Mota, a small town distant almost 500 kilometers from the capital of the state, São Paulo.
 - ▶ Showed a great interest in studying mathematics and playing soccer.
- ▶ In 1968-1972, undergraduate in Mathematics from the São Paulo State University (today known as UNSEP) in the campus of Presidente Prudente, a city that is almost 560 kms from São Paulo.
- ▶ Visited regularly the University of São Paulo's Institute for Mathematics and Statistics (IME-USP), where he attended summer courses in different areas.
 - ▶ The summer courses from IME are in their fiftieth edition.
 - ▶ Discovered a book that sent him towards probability and statistics. (“Introduction to Probability Theory and Statistical Inference”, by William Feller).

Figure 1: Heleno as student in Cândido Mota



1.1 Academic Beginnings

- ▶ Enrolled to a Master's degree in the recently established Statistics department at IME, where the first master and doctorate classes started in 1970. Heleno was supervised by professor Pedro Alberto Morettin, also a Mahalanobis laureate, and would receive the degree in 1976.
- ▶ In 1975, He married Ana Maria Tondato Mazanatti, who he met in high school.

1.2 Phd studies

- ▶ In 1978 Heleno started as Phd student in University of California at Berkeley.
- ▶ Completed his thesis "On Combining Experts Assessments", under the supervision of professor of Richard Eugene Barlow in 1982.

Figure 2: Heleno with his children at Berkeley, USA, 1982



1.3 Early career

- ▶ 1983, as assistant professor of Statistics at IME, would later help modernize the Statistics department, together with Josemar Rodrigues, Carlos A. Bragança, and Jorge Achcar.
- ▶ From 1983-1988 developed important work in Prediction Theory for Finite Populations, in a joint effort with Josemar Rodrigues and Professor Shelemyahu Zacks. He would publish in many peer reviewed journals, including Sankya, series B,(first article in 1987).
- ▶ In 1989, Heleno spent a year as post doc at the University of New York at Binghamton, where he would write his first book with co-author Shelemyahu Zacks titled "Prediction Theory for Finite Populations", edited by Springer.

Figure 3: Heleno with his children at Binghamton, USA, 1989



1.4 Full professor

- ▶ In 1990, Heleno lectured a course Prediction Theory for Finite Populations in the Universidade de San Marcos, Lima, Peru.
- ▶ In 1992, Heleno became full professor of Statistics at the University of São Paulo.
- ▶ In 1994, Professor Reinaldo Arellano-Valle, a Mahalanobis Laureate, was the second Phd student Heleno advised.
- ▶ Heleno, participated directly and indirectly, in the foundation of many meetings and congresses. One these meetings is the Brazilian Regression Models School (seventeenth edition). Another important meeting is the Brazilian school of Bayesian Statistics (sixteenth edition).

Figure 4: Brazilian Regression Models School, 1997



Figure 5: Latin American Congress of Probability and Statistics, (CLAPEM), Santiago-Chile, 1996



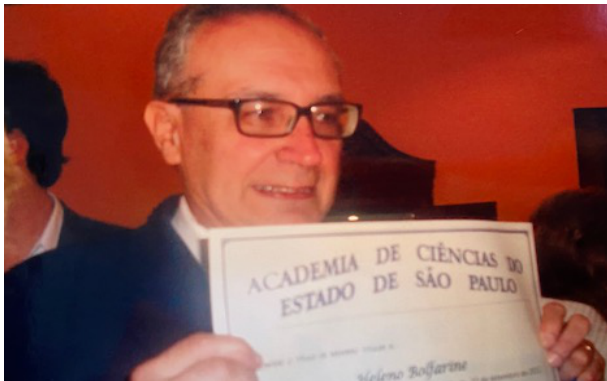
Figure 6: Heleno Bolfarine, Dipak Dey, Reinaldo Arellano-Valle 2000's



Figure 7: Heleno Bolfarine, Ana Maria, Jabuti Award, 2006



Figure 8: Heleno Bolfarine, Academy of Sciences of São Paulo, 2010



2. Capacity Building

2.1 Students -16 master and 44 Phd. Brazil:17, Peru: 14, Chile: 8, Colombia: 3, Argentina: 2.

Figure 9: Map of America with the distributions of the 44 Professor Bolfarine's Phd students.



Figure 10: Brazilian Regression Models School, with current and past students, 2015



2.2 Publications

- ▶ 193 publications in Web of Science (WOS). h-index 21. Total of citations 1809
- ▶ 337 publications in Google Scholar. h-index 37. Total of citations 4913
- ▶ Mains Areas : Statistics Inference, Measurement models, Calibration, Reliability, Distributions and Sampling, Prediction Theory for Finite Populations and Mixed Models and Regression Analysis

Figure 11: Classifications of publications in WOS

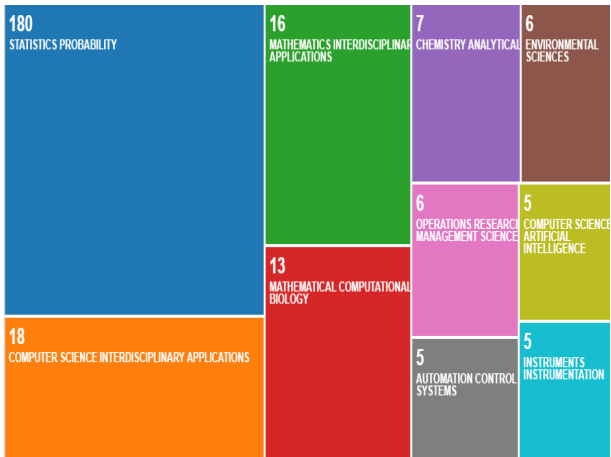


Figure 12: Citations over the time in WOS

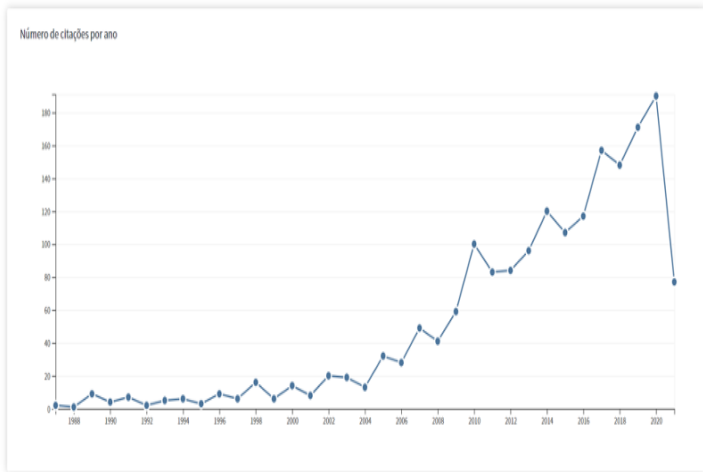


Figure 13: Papers more cited in WOS

		2017	2018	2019	2020	2021	Total	Média de citações por ano
		157	148	171	190	77	1809	51.69
1.	<p>Título: Skew-symmetric distributions generated by the distribution function of the normal distribution Por: Gomez, Hector W.; Venegas, Osvaldo; Bolfarine, Heleno Fonte: ENVIRONMETRICS Volume: 18 Edição: 4 Páginas: 395-407 Publicado: JUN 2007</p>	9	1	11	8	4	73	4.87
2.	<p>Título: An extension of the generalized Birnbaum-Saunders distribution Por: Gomez, Hector W.; Olivares-Pacheco, Juan F.; Bolfarine, Heleno Fonte: STATISTICS & PROBABILITY LETTERS Volume: 79 Edição: 3 Páginas: 331-338 Publicado: FEB 1 2009</p>	7	2	10	7	2	71	5.46
3.	<p>Título: Bayesian inference for skew-normal linear mixed models Por: Arellano-Valle, R. B.; Bolfarine, H.; Lachos, V. H. Fonte: JOURNAL OF APPLIED STATISTICS Volume: 34 Edição: 6 Páginas: 663-682 Publicado: 2007</p>	8	10	5	7	5	71	4.73
4.	<p>Título: ON SOME CHARACTERIZATIONS OF THE T-DISTRIBUTION Por: ARELLANOVALLE, RB; BOLFARINE, H Fonte: STATISTICS & PROBABILITY LETTERS Volume: 25 Edição: 1 Páginas: 79-85 Publicado: OCT 1995</p>	5	1	2	5	2	65	2.41
5.	<p>Título: Influence diagnostics in generalized log-gamma regression models Por: Ortega, EMM; Bolfarine, H; Paula, GA Fonte: COMPUTATIONAL STATISTICS & DATA ANALYSIS Volume: 42 Edição: 1-2 Páginas: 165-186 Número do artigo: PII S0167-9473(02)00104-4 Publicado: FEB 28 2003</p>	4	3	0	1	1	53	2.79
6.	<p>Título: A Skew Item Response Model Por: Bazan, Jorge L.; Branco, Marcia D.; Bolfarine, Heleno Fonte: BAYESIAN ANALYSIS Volume: 1 Edição: 4 Páginas: 861-892 Publicado: 2006</p>	3	6	6	2	4	51	3.19
7.	<p>Título: Local influence in elliptical linear regression models Por: Galea, M; Paula, GA; Bolfarine, H Fonte: STATISTICIAN Volume: 46 Edição: 1 Páginas: 71-79 Publicado: 1997</p>	2	3	4	1	1	49	1.96
8.	<p>Título: Skew scale mixtures of normal distributions: Properties and estimation Por: Ferreira, Clecio da Silva; Bolfarine, Heleno; Lachos, Victor H. Fonte: STATISTICAL METHODOLOGY Volume: 8 Edição: 2 Páginas: 154-171 Publicado: MAR 2011</p>	3	6	5	3	3	38	3.45

2.3 Some Awards and Distinctions

- ▶ Honored in the XI Brazilian Meeting on Bayesian Meeting on Bayesian Statistics in 2012
- ▶ Honored in the 14th Brazilian School of Regression Models in 2014.
- ▶ Winner of the 2006 Jabuti Award in the exact sciences category for the book "Elements of Sampling" (In Portuguese)
- ▶ ABE 2012 Award granted by the Brazilian Statistics Association
- ▶ Full member of the São Paulo State Academy of Science since 2012
- ▶ 2021 Mahalanobis International Award for a Statistician from Developing Country sponsored by the Ministry of Statistics and Programme Implementation of the Government of India. for Lifetime Achievements in Statistics in a Developing Country or Region and presented biennially during the ISI World Statistics Congress

THANKS! OBRIGADO! GRACIAS!

Figure 14: Prof Heleno Bolfarine

