

### BIOGRAPHICAL SKETCH

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NAME Panagis G. Moschopoulos	POSITION TITLE Professor , Department of Mathematical Sciences; Director, Statistical Consulting Laboratory
eRA COMMONS USER NAME (credential, e.g., agency login) PGM630	

EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Athens, Athens, Greece	B.S.	1969	Mathematics (Honors)
McGill University, Montreal, Canada	M. Sc	1977	Applied Statistics
University of Rochester, Rochester, NY	M.A.	1979	Statistics
University of Rochester, Rochester, NY	Ph.D.	1981	Statistics

#### A. Positions and Honors

1981-1986 Assistant Professor, Programs in Mathematical Sciences, University of Texas at Dallas.  
 1986-1987 Associate Professor, Department of Mathematics, University of Toledo  
 1987-1989 Associate Professor, Department of Mathematics, Southwest Missouri State  
 1989-1998 Associate Professor, Mathematical Sciences Department, University of Texas at El Paso  
 1996-1997 Assistant Dean, College of Science  
 1998 – Present Professor, Department of Mathematical Sciences, UTEP  
 2000-2002 Visiting Professor, Dept. of Statistics and Operations Research, Kuwait University  
 2003 – Present Director, Statistical Consulting Laboratory

Associate Editor: American Journal of Mathematical and Management Sciences

#### B. Selected Peer-reviewed Publications

1. Moschopoulos, P.G. 1983. A general procedure for deriving distributions. *Comm. Statist. Theory and Meth*, Vol.12, No. 17, 2005-2015.
2. Moschopoulos, P.G. 1983. On a new transformation to normality. *Comm. Statist. Theory and Meth.*, Vol. 12 No. 16, 1873-1878.
3. Moschopoulos, P.G. and Mudholkar, G.S. 1983. A likelihood ratio based normal approximation for the non-null distribution of the multiple correlation coefficient. *Comm. Statist., Simul. Comp.*, Vol. B-12, 355-371.
4. Moschopoulos, P.G and Canada, W.B. 1984. The distribution function of a linear combination of chi-squares. *Computers and Mathematics with Applications*, Vol. 10, Nos 4/5, 383-386.
5. Moschopoulos, P.G. 1984. A representation for an h-function through statistical techniques, *Metron*. Vol XLII, No. 1-2, 157-163.
6. Moschopoulos, P.G. 1985. The distribution of the sum of independent gamma random variables. *Annals Instit. Statist. Math.*, Vol. 37, No. 3, 541-544.
7. Moschopoulos, P.G and Davidson, M.L. 1985. Hypothesis testing in ANOVA under multinomial sampling. *Sankhya B.*, Vol. 47, Part 3, 301-309.
8. Kourouklis, S. and Moschopoulos, P.G. 1985. On the distribution of the trace of a noncentral wishart matrix. *Metron*, Vol. XLIII, No. 1-2, (1985), 85-92.
9. Moschopoulos, P.G. 1986. New representations for the distribution function of a class of likelihood ratio criteria. *Journal of Statistical Research*. Vol. 20, Nos. 1 & 2, 13-20.
10. Moschopoulos, P.G. 1988. Asymptotic expansions of the non-null distribution of the likelihood ratio criterion for testing multisample sphericity. *Amer. Journal Math. Manag. Sciences*, Vol. 8, No.2, 135-163.

11. Moschopoulos, P.G. 1989. Tests of hypotheses on concomitant variables in linear models. *Comm. Statist. Theory and Meth.*, A-18 No. 5.
12. Mathai, A.M. and Moschopoulos, P.G. 1990. A form of multivariate gamma distribution. *Annals of The Institute of Statistical Mathematics*, Vol. 44, No. 1, 97-106.
13. Mathai, A.M. and Moschopoulos, P.G. 1991. On a multivariate gamma, *Journal of Multivariate Analysis*, Vol. 39, No. 1, 135-153.
14. Moschopoulos, P.G. 1992. The hypothesis of multisample block-sphericity. *Sankhya, Series A*, Vol. 54, part 2, 260-270.
15. Staniswalis, J.G., Severini, T., Moschopoulos P.G. 1993. On a data based power transformation for reducing skewness. *Journal of Statistical Computation and Simulation*, Vol. 46, 91-100.
16. Mathai, A.M. and Moschopoulos, P.G. 1993. A multivariate beta model. *Statistica*, anno LIII, n. 2, 231-241.
17. Moschopoulos, P.G. and Staniswalis, J.G. 1994. Estimation given conditionals from an exponential family. *The American Statistician*, Vol. 48, No. 4, 271-275.
18. Mathai, A.M. and Moschopoulos, P.G. 1995. The distribution of the standard F-ratio in one-way anova with multinomially distributed cell sizes. *International Journal of Mathematical and Statistical Sciences*, Vol. 4, No.1, 63-74.
19. Mathai, A.M., Moschopoulos P.G. (1997). A Multivariate Inverted Beta Model. *Statistica*, anno LVII, n.2, 190-197.
20. Mathai, A.M., Moschopoulos P.G., Pederzoli, G. (1998). Random Points Associated with Rectangles. *Rendiconti del circolo matematico de Palermo*, Vol. 4-7.
21. Mathai, A.M. Moschopoulos, P.G. (1999). Pollution by vehicular travels from satellite townships to the city. *Environmetrics*, Vol. 10, 791-802.
22. Mathai, A.M., Moschopoulos, P.G., Pederzoli, G., (1999). Distance between random points in a cube. *Statistica*, Anno LIX, n.1, 61-81.
23. Mathai, A.M., Moschopoulos, P.G. (2000). Testing variances in the presence of correlations. Refereed contribution to: *Probability and Statistical Models with Applications*. A special Volume by CRC Press, 2000, edited by Balakrishnan, Charalambides and Koutras.
24. Moschopoulos, P.G. , Sha, Naijun. Bayesian Inference on Scale Parameters in Exponential Family Using Conditionally Specified Priors. *Communications in Statistics, Theory and Methods*, A. Vol. 32, Issue 2, p.303-318. 2005
25. Moschopoulos, P.G., Sphak, Max (2009). The distribution of family sizes under a time-homogeneous birth and death process. To appear in *Communications in Statistics, Theory and Methods*, A.

## Recent Consultations

Center for Border Health Research – Assisted the following researchers with their proposals: Dr. Maria Cottrell; Dr. Maria Duarte-Gardea; Dr. Wen-Yee Lee; Dr. Jeri Sias.

Election Polls : Predicting local and state election outcomes, March 2005, October 2006.

College of Health Sciences – Dr. Robert Anders project: R01 proposal to the Agency for Healthcare Quality and Research on the assessment of patient outcomes for Mexican-Americans hospitalized with an acute mental illness. CO-PI in two grant proposals with Dr. Ibarra, MD, College of Health Sciences. One pre-proposal on “The Fruitful Study: Increasing Fruit and Vegetable Consumption in School Lunch on the Border, submitted to SCORE, classified as SC2.

William Beaumont Army Medical Center – US-Army – Oct. 2003- Oct.2009; Consultations with researchers.

Mathematical Sciences – Dr. Helmut Knaust project: Data analysis of passing rates of Math 1320 with and without the Booster course. February, 2008.

College of Business – Michael Gonzalez, Ph.D. Student. Discussed study of competitive advantage of companies. February, 2009.

Unidad de Investigacion – Reviewing manuscript for Unidad de Investigacion in Ciudad Juarez. February, 2009.

## Other Consultations

Assistant Consultant at the Division of Biostatistics, School of Medicine and Dentistry, The University of Rochester. Medical Data Analysis in major projects funded by national agencies, 1979-1981. Consultant in soil analysis to determine the characteristics of sites in Wilson's Creek National Monument in Missouri in which an extremely rare plant grows (Bladderpod), 1988. Expert witness in case: ATT and Southwestern Bell Telephone versus Compute-a Call Inc. of Arkansas, 1988. Student databases expert.

Statistical Consulting Laboratory, Resource statistician, 1992- present.

## C. Research Support

5G12 RR008124 Natalicio (PI) 6/1/03 – 5/31/08 (Continuing with Bridge Funds)  
NIH – NCRR

Border Biomedical Research Center

Role: Director, Statistical Consulting Laboratory

Purpose: Director, the Statistical Consulting Laboratory at UTEP, a university service center providing statistical and database management support to the El Paso community on a fee-for-service basis. The Statistical Consulting Laboratory is a Core facility of the BBRC providing statistical support to faculty and students in support of the Ph.D. program in Biological Sciences.