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The University of Texas at San Antonio

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Education

Doctor of Philosophy, Statistics, University of Maryland
Dissertation Title: Prediction in Some Classes of Non-Gaussian Random Fields

Master of Science, Water Resources, Universidad Simon Bolivar
Thesis Title: A Rainfall Point Process model with a Daily Periodic Component

Bachelor of Science, Mathematics, Universidad Simon Bolivar

Academic Positions

2006 - Present	Professor, Department of Management Science and Statistics, The University of Texas at San Antonio
2006	Assistant Professor, University of Arkansas
2001 - 2006	Assistant Professor, Department of Mathematical Sciences, University of Arkansas
2001 - 2006	Assistant Professor, University of Arkansas
2005	STAT 5103-Theory of Statistics (Fall), University of Arkansas
2005	STAT 5313-Regression Analysis (Spring), University of Arkansas
2005	STAT 5383-Time Series Analysis (Fall), University of Arkansas
2005	STAT 610V-Research in Statistics (Spring), University of Arkansas
2004	STAT 3013-Introduction to Probability and Statistics (Spring), University of Arkansas

2004	STAT 4003-Statistical Methods (Fall), University of Arkansas
2004	STAT 5313-Regression Analysis (Spring), University of Arkansas
2004	STAT 5383-Time Series Analysis (Fall), University of Arkansas
2003	STAT 3013-Introduction to Probability and Statistics (Spring), University of Arkansas
2003	STAT 4003-Statistical Methods (Fall), University of Arkansas
2003	STAT 5383-Time Series Analysis (Fall), University of Arkansas
2003	STAT 5413-Spatial Statistics (Spring), University of Arkansas
2002	STAT 2023-Biostatistics (Spring), University of Arkansas
2002	STAT 2303-Principles of Statistics (Fall), University of Arkansas
2002	STAT 3013-Introduction to Probability and Statistics (Fall), University of Arkansas
2002	STAT 5313-Regression Analysis (Spring), University of Arkansas
2001	CO 3321-Statistics for Engineers (Spring), Universidad Simone Bolivar
2001	CO 3321-Statistics for Engineers (Winter), Universidad Simone Bolivar
2000 - 2001	Associate Professor, Department of Scientific Computing and Statistics,, Universidad Simon Bolivar, Venezuela
1998 - 2001	Assistant Professor, Universidad Simon Bolivar
2000	CO 3131-Probability for Engineers (Fall), Universidad Simon Bolivar
2000	CO 3321-Statistics for Engineers (Spring), Universidad Simone Bolivar
2000	CO 4311-Statistics for Quality Control and Productivity (Winter), Universidad Simone Bolivar
2000	CO 6311-Statistical Inference I (Winter), Universidad Simone Bolivar
2000	CO 6312-Statistical Inference II (Spring), Universidad Simone Bolivar
1999	CO 3321-Statistics for Engineers (Winter), Univeridad Simon Bolivar
1999	CO 3131-Probability for Engineers (Spring), Universidad Simon Bolivar

- 1999 CO 4311-Statistics for Quality Control and Productivity (Fall),
Universidad Simone Bolivar
- 1999 CO 6322-Spatial Statistics (Spring), Universidad Simone Bolivar
- 1998 - 1999 Assistant Professor, Department of Scientific Computing and Statistics,
Universidad Simon Bolivar, Venezuela
- 1998 CO 3131-Probability for Engineers (Fall), Universidad Simon Bolivar
- 1989 - 1992 Lecturer, Universidad Simon Bolivar

SCHOLARSHIP/RESEARCH/CREATIVE WORKS

Intellectual Contributions

Book, Chapter in Scholarly Book-New - Peer-Reviewed/Refereed

2014

3. Raut, S., Jana, A., De Oliveira, V., Muluk, S., & Finol, E. A., (2014). The Effect of Uncertainty in Wall Vascular Material Properties on Abdominal Aortic Aneurysm Wall Mechanics. In B. Doyle, K. Miller, A. Wittek, and P.M.F. Nielsen (Eds.), *Computational Biomechanics for Medicine* (pp. 69-86). Springer.
2. De Oliveira, V., & Trindade, A. A., (2014). Spatial Statistics. In R. Alhadj and J. Rokne (Eds.), *Encyclopedia of Social Network Analysis and Mining* (pp. 1976-1990). Springer.

2010

1. De Oliveira, V., (2010). Objective Bayesian Analysis for Gaussian Random Fields. In M.-H. Chen, D.K. Dey, P. Muller, D. Sun and K. Ye (Eds.), *Frontiers of Statistical Decision Making and Bayesian Analysis--In Honor of James O. Berger* (pp. 497-511). Springer.

Journal Article, Academic Journal - Peer-Reviewed/Refereed

2020

38. Tejas, C., Patnaik, S., Nguyen, H., Ng, E.Y.K., Narayanan, S., Muluk, S., De Oliveira, V., & Finol, E., (2020). A Comparative Study of Biomechanical and Geometrical Attributes of Abdominal Aortic Aneurysms in the Asian and Caucasian Populations. (6th ed., vol. 142, pp. 061003). *Journal of Biomechanical Engineering*.
37. De Oliveira, V., (2020). Models for Geostatistical Binary Data: Properties and Connections. (vol. 74, pp. 72-79). *The American Statistician*.

2019

36. De Oliveira, V., & Ecker, M. A Non-Stationary Non-Gaussian Hedonic Spatial Model for House Selling Prices. *Communications in Statistics-Simulation and Computation*.
35. Han, Z., & De Oliveira, V. Maximum Likelihood Estimation of Gaussian Copula Models for Geostatistical Count Data. *Communications in Statistics--Simulation and Computation*.
34. Wu, W., Rengarajam, B., Thirugnanasambandam, M., Parikh, S., Gomez, R., De Oliveira, V., Muluk, S., & Finol, E., (2019). Wall Stress and Geometry Measures in Electively Repaired Abdominal Aortic Aneurysms. (vol. 47, pp. 1611-1625). *Annals of Biomedical Engineering*.

2018

33. Parikh, S. A., Thirugnanasambandam, M., Chauhan, S. S., De Oliveira, V., Muluk, S. C., Eskandari, M. K., & Finol, E. A., (2018). Decision Tree Based Classification of Abdominal Aortic Aneurysms Using Geometry Quantification Measures. (vol. 46, pp. 2135-2147).
32. Han, Z., & De Oliveira, V., (2018). gcKrig: An R Package for the Analysis of Geostatistical Cont Data Using Gaussian Copulas. (13th ed., vol. 87, pp. 1-32). *Journal of Statistical Software*.
31. Kedem, B., & De Oliveira, V., (2018). On Join Analysis of Testicular Germ Cell Cancer. (vol. 5, pp. 1097). *Journal of Urology and Research*.
30. De Oliveira, V., Wang, B., & Slud, E. V., (2018). Spatial Modeling of Rainfall Accumulated Over Short Periods of Time. (vol. 166, pp. 129-149). *Journal of Multivariate Analysis*.

2017

29. De Oliveira, V., & Kedem, B., (2017). Bayesian Analysis of a Density Ratio Model. (vol. 45, pp. 274-289). *The Canadian Journal of Statistics*.
28. Chauhan, S. S., Gutierrez, C. A., Thirugnanasambandam, M., De Oliveira, V., Muluk, S. C., Eskandari, M. K., & Finol, E. A., (2017). The Association Between Geometry and Wall Stress in Emergently Repaired Abdominal Aortic Aneurysms. *Annals of Biomedical Engineering*.

2016

27. Han, Z., & De Oliveira, V., (2016). On the Correlation Structure of Gaussian Copula Models for Geostatistical Count Data. (vol. 58, pp. 47-69). *Australian and New Zealand Journal of Statistics*.

2015

26. Jing, L., & De Oliveira, V., (2015). geoCount: An R Package for the Analysis of Geostatistical Count Data. (11th ed., vol. 63, pp. 1-33). *Journal of Statistical Software*.
25. De Oliveira, V., & Kone, B., (2015). Prediction Intervals for Integrals of Gaussian Random Fields. (vol. 83, pp. 37-51). *Computational Statistics and Data Analysis*.

2014

24. De Oliveira, V., (2014). Poisson Kriging: A Closer Investigation. (vol. 7, pp. 1-20). Spatial Statistics.

2013

23. De Oliveira, V., (2013). Hierarchical Poisson Models for Spatial Count Data. (vol. 122, pp. 393-408). Journal of Multivariate Analysis.
22. Ecker, M. D., De Oliveira, V., & Isakson, H., (2013). A Note on a Non-stationary Point Source Spatial Model. (vol. 20, pp. 59-67). Environmental and Ecological Statistics.
21. Raut, S., Jana, A., De Oliveira, V., Muluk, S., & Finol, E. A., (2013). The Importance of Patient-Specific Regionally Varying Wall Thickness in Abdominal Aortic Aneurysm Biomechanics. (vol. 135, pp. 081010). Journal of Biomechanical Engineering.

2012

20. De Oliveira, V., (2012). Bayesian Analysis of Conditional Autoregressive Models. (vol. 64, pp. 107-133). Annals of the Institute of Statistical Mathematics.
19. Song, J. J., & De Oliveira, V., (2012). Bayesian Model Selection in Spatial Lattice Models. (vol. 9, pp. 228-238). Statistical Methodology.

2011

18. De Oliveira, V., & Ferreira, M., (2011). Maximum Likelihood and Restricted Maximum Likelihood Inference for a Class of Gaussian Markov Random Fields. (vol. 74, pp. 167-183). Metrika.

2009

17. De Oliveira, V., & Song, J. J., (2009). Bayesian Analysis of Simultaneous Autoregressive Models. (vol. 70-B, pp. 323-350). Sankhya.
16. De Oliveira, V., & Rui, C., (2009). On Shortest Prediction Intervals in Log-Gaussian Random Fields. (vol. 53, pp. 4345-4357). Computational Statistics & Data Analysis.

2008

15. Ecker, M., & De Oliveira, V., (2008). Bayesian Spatial Modeling of Housing Prices Subject to a Localized Externality. (vol. 37, pp. 2066-2078). Communications in Statistics-Theory and Methods.
14. Rui, C., & De Oliveira, V., (2008). Point and Block Prediction in Log-Gaussian Random Fields: The Non-constant Mean Case. (vol. 138, pp. 2128-2142). Journal of Statistical Planning and Inference.

2007

13. Ferreira, M. A.R., & De Oliveira, V., (2007). Bayesian Reference Analysis for Gaussian Markov Random Fields. (vol. 98, pp. 789-812). Journal of Multivariate Analysis.
12. De Oliveira, V., (2007). Objective Bayesian Analysis of Spatial Data with Measurement Error. (vol. 35, pp. 283-301). The Canadian Journal of Statistics.

2006

11. De Oliveira, V., (2006). On Optimal Point and Block Prediction in Log-Gaussian Random Fields. (vol. 33, pp. 523-540). Scandinavian Journal of Statistics.

2005

10. De Oliveira, V., (2005). Bayesian Inference and Prediction of Gaussian Random Fields Based on Censored Data. (vol. 14, pp. 95-115). Journal of Computational and Graphical Statistics.
9. Paez, M. S., Gamerman, D., & De Oliveira, V., (2005). Interpolation Performance of a Spatio-temporal Model With Spatially Varying Coefficients: Application to PM10 Concentrations in Rio de Janeiro. (vol. 12, pp. 169-193). Environmental and Ecological Statistics.

2004

8. De Oliveira, V., (2004). A Simple Model for Spatial Rainfall Fields. (vol. 18, pp. 131-140). Stochastic Environmental Research and Risk Assessment.

2003

7. De Oliveira, V., (2003). A Note On the Correlation Structure of Transformed Gaussian Random Fields. (vol. 45, pp. 353-366). Australian and New Zealand Journal of Statistics.

2002

6. De Oliveira, V., Fokianos, K., & Kedem, B., (2002). "Bayesian Transformed Gaussian Random Field: A Review" [invited paper]. (vol. 31, pp. 175-187). Japanese Journal of Applied Statistics.
5. De Oliveira, V., & Ecker, M., (2002). Bayesian Hot Spot Detection in the Presence of a Spatial Trend: Application to Total Nitrogen Concentration in the Chesapeake Bay. (vol. 13, pp. 85-101). Environmetrics.

2001

4. Berger, J., De Oliveira, V., & Sansó, B., (2001). Objective Bayesian Analysis of Spatially Correlated Data. (vol. 96, pp. 1361-1374). Journal of the American Statistical Association.

2000

3. De Oliveira, V., (2000). Bayesian Prediction of Clipped Gaussian Random Fields. (vol. 34, pp. 299-314). Computational Statistics and Data Analysis.
2. Holland, D., De Oliveira, V., Cox, L., & Smith, R., (2000). Estimation of Regional Trends in Sulfur Dioxide Over the Eastern United States. (vol. 11, pp. 373-393). Environmetrics.

1997

1. De Oliveira, V., Kedem, B., & Short, D., (1997). Bayesian Prediction of Transformed Gaussian Random Fields. (vol. 92, pp. 1422-1433). Journal of the American Statistical Association.

Book, Scholarly-New - Not Peer-Reviewed/Refereed

2017

1. Kedem, B., De Oliveira, V., & Sverchkov, M., (2017). Statistical Data Fusion. World Scientific Publishing.

Conference Proceeding - Not Peer-Reviewed/Refereed

2015

1. De Oliveira, V., & Kone, B., (2015). Prediction Intervals for Integrals of Some Types of Non-Gaussian Random Fields: A Semiparametric Bootstrap Approach. (pp. 2588-2597). JSM Proceedings, Statistics and the Environment Section, American Statistical Association.

Journal Article, In-House Journal - Not Peer-Reviewed/Refereed

1997

1. De Oliveira, V., & Kedem, B., (1997). Review of "Multivariate Geostatistics," by Hans Wackernagel, Springer-Verlag, 1995. (vol. 39, pp. 340-341). SIMA Reviews.