

Curriculum Vitae

Personal details

NAME	Dimitris
SURNAME	Karlis
DATE OF BIRTH	2 February 1971
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MARITAL STATUS	Married
NATIONALITY	Greek
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Education

1988 – 1992	BSc in Statistics, Athens University of Economics and Business (ASOEE) Department of Statistics (8.5/10).
1994 -1998	PhD in Applied Statistics and Computational Statistics (supported from the State Scholarships Foundation of Greece). Title: “ <i>Estimation and Testing Problems in Poisson Mixtures</i> ” Supervisor: Prof. Evdokia Xekalaki External Examiners: Sir David Cox Prof. Bruce Lindsay

Scholarships

1992	Erasmus scholarship for attending courses at the Dept of Probability and Statistics, Sheffield University, United Kingdom (one semester)
1993-1998	Scholarship from the National Scholarship Foundation for doctoral dissertation

Working Experience and Research Projects

1994 – 1998	Tutor for several courses including: <ul style="list-style-type: none">• Pascal Programming Language• Introduction to Probability• Descriptive Statistics• Statistics (offered by the Dept of Economics)• Multivariate Statistics• Data Analysis• Sampling Techniques (offered by the Postgraduate program)• Statistical Packages
March 1995 – June 1995	Data Research and Consulting: Statistical Analysis of a political survey concerning voting attributes of the Achaia territory
March 1997 – September 1997	Centre of the Renewal Energy Sources: Statistical Analysis of fatigue loadings of a wind turbine
September 1997-February 1998	Formation of the Educational Program of the National

January 1998- November 1998	Statistical Office of Greece Integration of Statistical Software in Eurostat's Data Bases (SUP-COM 17)
September 1997-November 1998	Responsible for organisational matters for the project "Professional Practice" of the Dept of Statistics, AUEB
January 2000 -	IST-99-1-1A – Proposal No 12134 : Extended Statistical Information System
October 2002 – February 2003	VL-CATS Virtual Library for Computer Assisted Training of Statistics. Preparation of 'Data Analysis' course
March 2000- July 2000	Visiting Lecturer, Dept of Statistics, Athens University and Economics. Courses taught: Multivariate statistical Analysis
September 2000 – July 2001	Visiting Lecturer, Dept of Statistics, Athens University and Economics. Courses taught: Linear Regression Computational Statistics Estimation and Hypothesis testing Multivariate Statistical analysis
November 2001 – October 2004	Lecturer Dept of Statistics, Athens University and Economics.
January 2003 – February 2003	Visitor in the Dept of Business Informatics, Limburg Universitair Centrum; Belgium
November 2004 – December 2010	Assistant Professor Dept of Statistics, Athens University and Economics.
December 2010 - today	Associate Professor Dept of Statistics, Athens University and Economic
January 2004 – May 2005	Digital Era Statistical Indicators IST–2000–31083
August 2006- September 2007	Building the Intrastat system in Romania- Team Leader

Research Papers

Papers published

1. Karlis D., Xekalaki E. (1999) On testing for the number of components in finite Poisson mixtures. *Annals of the Institute of Statistical Mathematics*, **51**, 149-161.
2. Karlis D., Xekalaki E. (1998) Minimum Hellinger distance estimation for finite Poisson mixtures. *Computational Statistics and Data Analysis*, **29**, 81-103.
3. Karlis D., Xekalaki E. (1999). Improving the EM algorithm for mixtures. *Statistics and Computing*, **9**, 303-307.
4. Diamantidis N., Karlis D., Giakoumakis M. (2000) Unsupervised stratification of cross-validation for accuracy estimation. *Artificial Intelligence*, **116**, 1-16.
5. Karlis D., Xekalaki E. (2000) A Simulation Comparison of Several Tests for the Poisson Distribution. *Journal of the Royal Statistical Society Series D, The Statistician*, **49**, 355-382
6. Karlis D. and Ntzoufras J. (2000). On Modelling Soccer Data. *Student* ,**3**, 229-245.
7. Karlis D., Xekalaki E. (2001) Robust Testing And Diagnostics For Finite Poisson Mixtures *Journal of Statistical Planning and Inference*, **93**, 93-115
8. Dellaportas P., Karlis D. (2001) A simulation approach to hierarchical models. *International Statistical Review* **69**, 63-79.
9. Karlis, D. (2002) A general EM approach for maximum likelihood estimation in Mixed Poisson Regression Models. *Statistical Modelling : An International Journal*, **1**, 305 – 318.
10. Karlis D., (2002). An EM Type Algorithm for ML estimation for the Normal –Inverse Gaussian Distribution. *Statistics and Probability* **57**, 43-52
11. Karlis D., Xekalaki E. (2003) Choosing initial values for the EM algorithm for finite mixtures *Computational Statistics and Data Analysis*, **41**, 577-590
12. Karlis, D. Kostaki, A. (2002) Bootstrap Techniques for Mortality Models *Biometrical Journal*, **44**, 696-712.
13. Karlis D. (2003) An EM Algorithm for Multivariate Poisson Distribution and Related Models. *Journal of Applied Statistics*, **30**, 63-77.
14. Karlis, D., Saporta, G. and Spinakis A. (2003) A Simple Rule for the Selection of Principal Components. *Communications in Statistics- Theory and Methods*, **32**, 643 –666.
15. Karlis D., Xekalaki E. (2003) A Zero frequency alternative method to the moment method of estimation in Finite Poisson Mixtures, *Journal of Statistical Computation and Simulation*, **73**, 409-427.
16. Iliopoulos, G. and Karlis, D. (2003) Simulation from the Bessel distribution with applications. *Journal of Statistical Computation and Simulation*, **73**, 491-506
17. Karlis, D. (2003) Maximum Likelihood Estimation for Multivariate Shock Models. *Annals of the Institute of Statistical Mathematics*, **55**, , 817-830
18. Karlis, D and Ntzoufras, J. (2003) Analysis of Sports Data Using Bivariate Poisson Models. *The Statistician*, **52**, 381-393

19. Tsiamyrtzis, P. and Karlis, D. (2004) Strategies for efficient computation of multivariate probabilities. *Communications in Statistics – Simulation and Computation*, 33, 271 –293.
20. Brijs, T., Karlis, D. , G. Swinnen, K. Vanhoof and G. Wets and Manchanda, P. (2004) A Multivariate Poisson Mixture for Marketing Applications . *Statistica Neerlandica*, 58, 322-348.
21. Frangos, N. and Karlis, D. (2004) Modelling Losses using a Exponential-Inverse Gaussian Distribution. *Inurance: Mathematics and Economics*, 35, 53-67
22. Karlis, D. and Lillestol, J. (2004) Bayesian estimation for the NIG distribution *Applied Stochastic Models in Business and Industry*, 20,323-338.
23. Karlis, D. and Xekalaki, E. (2005) Mixed Poisson Distributions. *International Statistical Review*, 73, 35-58
24. Karlis, D. (2005) An EM algorithm for mixed Poisson distributions. *ASTIN Bulletin*, 35, 3-24
25. Ntzoufras, I., Katsis, A. and Karlis, D. (2005) Bayesian Assessment of the Distribution of Insurance Claim Counts Using Reversible Jump MCMC. *North American Actuarial Journal*, 9, 90-108
26. Karlis, D. and Meligkotsidou, L. (2005) Multivariate Poisson Regression with Covariance Structure. *Statistics and Computing*, 15, 255-265
27. Karlis D. and Ntzoufras J. (2005). Bivariate Poisson and Diagonal Inflated Bivariate Poisson Regression Models R. *Journal of statistical Software*, vol 14, issue 10.
28. Iliopoulos, G., Karlis, D. and Ntzoufras, J. (2005). Bayesian estimation in Kibble’s bivariate gamma distribution. *Canadian Journal of Statistics*, 33, 571-589
29. Karlis, D. and Ntzoufras, I. (2006) Bayesian analysis of the differences of count data. *Statistics in Medicine* 25, 1885-1905
30. Geurts, K., Wets, G., Brijs, T, Van Hoof, K. , Karlis, D. (2006) Ranking And Selecting Dangerous Crash Locations: Correcting For The Number Of Passengers And Bayesian Ranking Plots. *Journal of Safety Research*, 37, 83-91
31. Brijs, T., Karlis, D., van den Bossche and Wets, G. (2006) A Model for Identifying and Ranking Dangerous Accident Locations: A Case-Study in Flanders. *Statistica Neerlandica*, 60, 457-476
32. Karlis, D. and Meligkotsidou, L. (2007) Finite multivariate Poisson mixtures with applications. *Journal of statistical Planning and Inference*, 137, 1942-1960
33. Karlis, D. and Patilea, V. (2007) Confidence Intervals of the hazard function for discrete distributions using mixtures. *Computational statistics and Data Analysis*, 51, 5388-5401
34. Nikoloulopoulos, AK, and Karlis, D. (2008) On modeling count data: a comparison of some well known discrete distributions *Journal of Statistical Computation and Simulation*, 78, 437-457
35. Karlis, D., Rahmouni, M. (2007) Analysis of Defaulters' Behavior Using Poisson-Mixture Approach . *IMA Journal of Mathematics in Management* , 18, 297-311

36. Brijs, T., Karlis, D., Van der Bosch, P. and Wets, G. (2007). Bayesian Ranking of accident sites *Journal of the Royal Statistical Society, Series A* 170, 1001-1017
37. Nikoloulopoulos, A.K. and Karlis, D. (2008) Fitting copulas to bivariate earthquake data: the seismic gap hypothesis revisited. *Environmetrics*, 2008; 19: 251–269
38. Karlis, D. and Tsiamyrtzis, P. (2008). Exact Bayesian Inference for bivariate Poisson models *Statistics and Computing*, 18, 27-40
39. Karlis, D. and Patilea, V. (2008). Bootstrap confidence intervals in mixtures of discrete distributions. *Journal of Statistical Planning and Inference*, 138, 2313-2329
40. Pavlopoulos, H. and Karlis, D. (2008) INAR(1) Modelling of Overdispersed Count Series with an Environmental Application. *Environmetrics*, 19, 369-393
41. Karlis, D., Vasdekis, V.S.G., Banti, M. (2009) Heteroscedastic Semiparametric models for Domestic Water Consumption, *Ecological and Environmental Statistics*, 16, 355-267
42. Nikoloulopoulos, A.K. and Karlis, D. (2008) Copula model evaluation based on parametric bootstrap *Computational Statistics and Data Analysis*, 52, 3342-3353
43. Karlis, D. and Santourian, A. (2009) Model Based Clustering with non-elliptically contoured distributions *Statistics and Computing*, 19, 73-83
44. Brijs, T., Karlis, D. and Wets, G. (2008) An Integer Autoregressive Model to Study the Effect of Weather Conditions on Daily Car Accident Counts *Accident Analysis and Prevention*, 40, 1180-1190
45. Karlis, D. and Ntzoufras, I. (2008) Bayesian modelling of football outcomes: Using the Skellam's distribution for the goal difference *IMA Journal of Mathematics in Management*, 20, 133-145
46. Nikoloulopoulos, A.K. and Karlis, D. (2008). Multivariate logit copula model with an application to dental data *Statistics in Medicine*, 27, 6393-406
47. Karlis, D. (2008) A note on the estimation of the Exponential Poisson distribution, a nested EM algorithm. *Computational Statistics and Data Analysis*, 53, 894-899
48. Nikoloulopoulos, A.K. and Karlis, D. (2009) Finite normal mixture copula for modeling multivariate discrete data. *Journal of Statistical Planning and Inference*, 139, 3878-3890
49. Nikoloulopoulos, A.K. and Karlis, D. (2010). Regression in a copula model for bivariate count data. *Journal of Applied Statistics*, 37, 1555-1568
50. K. Fragiadakis, D. Karlis and S. G. Meintanis (2009) Tests of Fit for Normal Inverse Gaussian Distributions. *Statistical Methodology*, 6, 553-564
51. Orfanogiannaki, K., Karlis, D. and Papadopoulos, J. (2009) Identifying seismicity patterns using Poisson Hidden Markov Models *Pure and Applied Geophysics*, 167, 919-931
52. Nikoloulopoulos, A.K. and Karlis, D. (2010). Modelling multivariate count data using copulas *Communications in Statistics, Simulation and Computation*, 39, 172-187
53. Andersson J. and Karlis D. (2009) Treating missing values in INAR model with an application to syndromic surveillance *Journal of Time Series Analysis*, 31, 12-19

54. Pedeli, X. and Karlis, D. (2011) A bivariate Poisson INAR(1) model with application. *Statistical Modelling*, 11, 325-349
55. Karlis, D. and Ntzoufras, I. (2011) Robust fitting for football prediction models. *IMA Journal of Mathematics in Management*, 22, 171-182
56. Ng, C.T., Joe, H., Karlis, D. and Liu, J. (2011) Composite Likelihood Methods For Time Series Models With A Latent Autoregressive Process *Statistica Sinica* **21**, 279-305
57. Bermudez, L. and Karlis, D. (2011) Bayesian multivariate Poisson models for assuming dependence in a ratemaking procedure, *Insurance: Mathematics and Economics*, 48, 226-236
58. Pedeli, X. and Karlis, D. (2010). On estimation for the bivariate Poisson INAR process. (to appear in *Communications in Statistics, Simulation and Computation*)
59. Perakis, K., Karlis, D., Cools, M., Jansen, D., Van Hoof, K. and Wets, G. (2011) A Bayesian Approach for Modeling Origin-Destination Matrices (to appear in *Transportation Research, Part A*)
60. Wikström, P-O.H., Tseloni, A. and Karlis, D. (2011) Do people comply with the law because they fear getting caught? (to appear in *European Journal of Criminology*)

Edited Volumes

1. Karlis, D and Xekalaki, E. (2003). Mixtures everywhere. In *Stochastic Musings*, ed J. Panaretos, pp 78-95.
2. Brijs, K., Vanhoof, K., Brijs, T. and Karlis, D (2006) Using Fuzzy Set Theory to Assess Country-of-Origin Effects on the Formation of Product Attitude. In *Modelling Decisions in Artificial Intelligence, Lecture Notes in Computer Science (Artificial Intelligence)*, vol 3558, eds Torra, Vicenç; Narukawa, Yasuo; Miyamoto, Sadaaki, pp 138-149, Springer-Verlag Berlin-Heidelberg.
3. Karlis, D. and Xekalaki, E. (2008) The Polygonal Distribution, In. *Advances in Mathematical and Statistical Modeling in Honor of Enrique Castillo Arnold, B. C., Balakrishnan, N, Minués, M and Sarabia, J. M. (eds)*, Birkhauser: Boston, 21-33

Unpublished papers

1. Dellaportas P, Karlis D. Xekalaki E. (1999) Credit Scoring via Bayesian analysis of finite Poisson mixtures .
2. Panaretos J., Psarakis S., Xekalaki E. and Karlis D. (2000) The correlated gamma-ratio distribution in model evaluation and selection
3. Karlis, D. Saporta, G, Spinakis, A. and Anastasiou, G. (2001) On a statistical software package for “non-experts” users: methodological approach.
4. D.N. Lyras, S.C. Kyriakis, K. Sarris, K. Saoulidis, C. Batzios, D. Karlis and S. Kritas (2003) Causes of preweaning mortality on Greek intensive pig farms.
5. Brijs, T., Karlis, D., Van den Bossche, P., Wets, G. (2005) A Poisson-Binomial Hierarchical Bayes Model For Ranking Hazardous Road Locations
6. Karlis, D., Karvounaraki, A., Panaretos, J. (2004) A new family of multivariate gamma distributions.

Conferences Proceedings

1. Xekalaki E., Karlis D.(1995) Testing hypotheses in Poisson family distributions. *Proceedings of the 51th World conference of the International Statistical Institute*, pp 1301-1302, Beijing, China, August 1995
2. Xekalaki E., Karlis D., (1998) Conditions for zero values of the Likelihood Ratio Test when testing for a Poisson mixture, *Proceedings of the Applied Statistical Modeling Conference, New Orleans*, 396-403
3. Karlis D., Xekalaki E (1998) An improvement of the EM algorithm for finite Poisson mixtures. *Proceeding of HERCMA 98, Athens*, 596-604
4. Karlis D., Ntzoufras I. (1998) Statistical Modelling for Soccer Games. *Proceedings of HERCMA 98, Athens*, 541-548
5. Karlis, D. (2001) The Normal-Inverse Gaussian Distribution and its application to financial data. 14 th *Panhellenic Conference in Statistics, Skiathos, April, 2001*.
6. Karlis, D., Saporta, G., Spinakis, A. and Anastasiou, G. (2001) On a statistical package for non-expert users. *Proceedings of the ETK-NTTS 2001 Conference, Crete, 18-22 June 2001*, pp 903-905
7. Yiokari, N., Xekalaki, E. and Karlis, D. (2001). "On Some Discrete-Valued Time Series Models Based on Mixtures and Thinning", *Proceedings of HERCMA 2001, Athens*, 872-877.
8. Karlis, D. and Xekalaki, E. (2001).Maximum Likelihood Estimation For Integer Valued Time Series Models with an Environmental Application. *Proceedings of HERCMA 2001, Athens*, 778-783 .
9. Karlis, D. (2002) Models based on the Normal-Inverse Gaussian distribution. *Proceedings of the 17th International Workshop on Statistical Modelling*, eds Stasinopoulos and Touloumi, pp 375-382
10. Karlis, D. and Ntzoufras, I. (2003) Bayesian and non-Bayesian analysis of soccer data using bivariate Poisson regression model. *Proceedings of the 16th Pan-Hellenic Conference in Statistics, Kavala*, pp 605-613
11. Karlis, D. and Meligkotsidou, L. (2003) Model Based Clustering for multivariate Count Data. *Proceedings of the 18th International Workshop on Statistical Modelling, Leuven, Belgium eds Lessaffre, Verbeke, Moolenbergs*, pp 375-382
12. Brijs T., Karlis D., Van den Bossche F. and Wets G. (2003). A Bayesian Model for Ranking Hazardous Sites. In: *Proceedings of the 11th Symposium Statistical Software*, organized by the Royal Dutch Academy of Sciences, November 6, Amsterdam, The Netherlands. Pp 55-72. ISBN:90-8084-16-1-7.
13. Ntzoufras, I., Katsis, A., and Karlis, D. (2003), A Bayesian Statistical modelling for the distribution of Insurance Counts. In T.E. Simos (ed). *Computational Methods in Sciences and Engineering, Proceedings of the International Conference 2003 (ICCMSE 2003)*, World Scientific Publishing Co. Pte. Ltd. Singapore: pp. 470-473.
14. Karlis, D. and Tsiamyrtzis, P.(2004) Exact Bayesian inference for bivariate Poisson data. *Proceedings of the 19th International Workshop on Statistical Modelling, Firenze, July 2004*, eds Biggeri et al., pp 435-439. (ISBN 88 - 8453-193-4)
15. Nikoloulopoulos, A.K. and Karlis, D. (2006) Modelling multivariate count data using copula functions. *COMPSTAT 2006 - Electronic Proceedings in*

- Computational Statistics 17th Symposium Held in Rome, Italy, 2006. Rizzi, Alfredo; Vichi, Maurizio (Eds.). ISBN: 3790817082.
16. Karlis, D. Sermaidis, G. and Brijs, T. (2007) Discrete valued time series models for examining weather effects in daily accident counts. *Proceedings of the 22th International Workshop on Statistical Modelling, Barcelona, July 2007*, eds De Castillo *et al.*, pp 368-373. (ISBN 978-84-690-5943-2)
 17. Pedeli, X. and Karlis, D. (2010) On composite likelihood estimation of a multivariate Poisson INAR(1) model. *Proceedings of the 25th Workshop in statistical Modelling, July 2010, Glaskow*, pp 429-432

Other Conferences With presentation

1. Karlis, D Dellaportas P (1997) Bayesian Estimation for finite Poisson mixtures. 4th Practical Bayesian Conference, Nottingham, July 1997
2. Karlis D., Xekalaki E (1998) Maximum Likelihood Estimation For The Poisson-Binomial Distribution Via The EM Algorithm With Environmental Applications. *SESS- TIES Conference, Athens, August 1999*
3. Karlis D. (2000) Exact ML estimation for Mixed Poisson Regression Models. *Euroworkshop on Mixed Models, Munich, November 2000*
4. Karlis, D. and Xekalaki, E. (2001) Choosing initial values for the EM algorithm for finite Poisson mixtures: A simulation comparison. *Mixtures 2001 Conference, Hamburg, July 2001*
5. Karlis, D. (2002) Model based clustering for count data. 15th *Panhellenic Conference in Statistics , Ioannina, May 2002*
6. Karlis, D. (2002) Overdispersed Integer Valued Autoregressive Models. *In COMPSTAT 2002, Berlin, August 2002.*
7. Karlis , D. and Tsiamyrtzis, P. (2004). Exact Bayesian Inference for Bivariate Poisson data. 2nd *International Workshop in Applied Probability*, Pireaus, Greece, March 2004.
8. Karlis, D. and Papadimitriou A. (2004) Inference for the multivariate Normal Inverse Gaussian Model. *17th Panhellenic Conference in Statistics, Lefkada, April 2002.*
9. Karlis, D. and Patilea, V. (2005) Bootstrap confidence intervals for reliability measures for discrete distributions. 3rd *IASC Conference, Limassol, Cyprus, 28-31 October 2005*
10. Karlis, D. (2006) Time Series Models for accident count data. Transportation Research Board Conference, Washington DC, January 2006 (invited presentation)
11. Karlis, D. and Nikoloulopoulos, A.K. (2007) Copula Functions for Modelling Multivariate Binary Data, 4th *Eastern Mediterranean Regions biometrics Conferences, Eilat, Israel, 22-25 January, 2007 (Invited)*
12. Karlis, D. and Patilea, V. (2007). A sieve nonparametric maximum likelihood estimator in mixtures of discrete exponential families. German classification society Conference, (GFKL) Freiburg, 7-9 March.

13. Karlis, D. and Arakelian, V. Mixtures of copulas and their applications in clustering. German classification society Conference, (GFKL) Freiburg, 7-9 March.
14. Karlis, D. and Ntzoufras, I. (2007) Bayesian modeling of football outcomes. IMA Conference on mathematics in sports, Macnshetser, june 2007.
15. Karlis, D. and Andersson, J. (2008) Missing data for discrete valued time series. COMPSTAT 2008, Porto, Portugal, August 2008.
16. Karlis, D. and Andersson, J. (2008) Missing Values in Discrete Valued Time Series Models, 4th IASC Conference, Yokohama, Japan, December 2008
17. Karlis, D. (2008) On modeling multivariate count data. NIPS, Workshop, December, 2008, Whistler Canada (invited)
18. Karlis, D. and Ntzoufras, I. (2009) Robust fitting of soccer prediction models. 2nd Conference Mathematics in Sports, Groningen, The Netherlands
19. Karlis, D. and Andersson, J. (2009) Time series processes in Z: a ZINAR process. Workshop on Integer valued Time series, Aveiro, 3-5 Septmeber, 2009
20. Karlis, D, Arakelian, V. (2009) Clustering dependencies via mixture of copulas. 5th ERCIM, Limassol, Cyprus, October, 2009
21. Karlis, D. (2010) Model Based Clustering using copulas. Workshop on Model Based Clustering, Grenoble, INRIA, July 2010
22. Karlis, D. (2010) Multivariate Integer Autoregressive Models. In 7th Conference for Multivariate Distribution and Applications, Maresias, Sao Paulo, Brazil, August 2010
23. Karlis, D. and Urania Dafni (2010) Estimation of Survival Curves in the Case of "Time Varying Treatment". Symposium in honor of Steve Lagakos, Athens, October 2010.
24. Karlis, D. (2011) Model based clustering via copulas. 24th Conference of Greek Statistical Institute. Patras, 28 April, 2011
25. Karlis, D. and Orfanogiannaki, K. (2011) Multivariate Hidden Markov Models for modeling earthquakes. STATSEI 7 , Santorini, May 2011
26. Karlis, D. and Orfanogiannaki, K. (2011) Multivariate Hidden Markov Models for count data 2nd International Workshop on Integer Valued Time Series, Cyprus, June 2011
27. Karlis, D. and Ntzoufras, I. (2011) Bivariate Skellam distributions with applications to soccer modeling and betting. 3rd IMA Conference in Mathematics in Sports, Manchester, UK, June 2011
28. Karlis, D. (2011) Modelling Health Surveillance Data via multivariate discrete time series models. CEIB 2011, XII Spanish-Iberoamerican Conference of Biometrics, Barcelona, September 2011 (invited)

Coauthor presented

29. Brijs, T., Karlis, D., Swinnen, G., Vanhoof, K., and Wets, G. (2002), Tuning the multivariate Poisson mixture model for clustering supermarket shoppers, at: *Statistical Modelling and Inference for Complex Data Structures, poster paper, Louvain-La-Neuve, May 21-23.*

30. Iliopoulos, G. and Karlis, D. (2002) Simulation from the Bessel distribution with applications. *15th Panhellenic Conference in Statistics , Ioannina, May 2002*
31. Tsiamirtzis, P. and D. Karlis (2003). Strategies for efficient computation of multivariate Poisson probabilities. *Recent Advances in Statistical Designs and Related Combinatorics, Athens 7-9 of July 2003, conference in honour of Prof. St. Kounias.*
32. Patilea, V and Karlis, D. (2003). Intervalles de confiance bootstrap pour les mélanges des lois discrètes 34th Conference of France Statistical Society, Lyon, June 2003
33. Brijs T., Karlis D., Van den Bossche F. and Wets G. (2004). A Bayesian Model for Ranking Hazardous Sites. CORS/INFORMS Joint International Meeting, Banff, Canada, 16-19 May 2004.
34. Karlis, D and Nikoloulopoulos, A. (2005) Modelling bivariate count data using copulas. 3rd EMR-IBS Conference, Corfu, May 2005
35. Ntzoufras, I. and Karlis, D. (2005). Bayesian modelling of Poisson difference data. 3rd EMR-IBS Conference, Corfu, May 2005
36. Nikoloulopoulos, A.K. and Karlis D. (2006). Modelling multivariate binary data using copulas. 19th Panhellenic Conference in statistics, Kastoria, Greece, April 2006
37. Ntzoufras, I. and Karlis, D. (2005) Bayesian analysis of bivariate count data. . 3rd IASC Conference, Limassol, Cyprus, 28-31 October 2005
38. Xekalaki, E. and Karlis, D. (2006) *The Polygonal Distribution . International Conference on Mathematical and Statistical Modelling in Honour of Enrique Castillo (ICMSM 2006)*
39. Arakelian, V. and Karlis, D. (2006) Financial applications of flexible copula families based on mixing. 12th International Conference On Computing In Economics And Finance Limassol, Cyprus, June 22-24, 2006
40. Orfanogiannaki K., Karlis, D. and G. Papadopoulos (2006) Identification of seismicity patterns in Sumatra using Poisson Hidden Markov models. 11th International Symposium on Natural and Human Induced Hazards & 2nd Workshop on Earthquake Prediction University of Patras, Greece, 22-25 June 2006
41. Nikoloulopoulos, A.K. and Karlis, D. (2007) Finite normal mixture copula for modelling multivariate discrete data. IAP Workshop on statistical Inference for dependent data, Hasselt, Belgium, 26-27 April, 2007.
42. K. Orfanogiannaki, D. Karlis and G.A. Papadopoulos (2007) Application of Poisson Hidden Markov Models on Foreshock Sequences: The Cases of Samos, October 2005, And Zakynthos, April 2006, Earthquakes ASMDA 2007, Chania
43. Nikoloulopoulos, A., K. and D. Karlis: (2007) Finite Normal Mixture Copula for Modelling Multivariate Discrete Data. The 6th Conference on Multivariate Distributions with Fixed Marginals and Given Dependence Structure, Tartu, Estonia, June 2007
44. Jonas Andersson and Dimitris Karlis (2008) Treating missing values in INAR(1) models International Workshop in Recent Advances in Time Series Analysis University of Cyprus, Cyprus, June 2008
45. Pedeli, X. and Karlis, D. (2009) *A Bivariate Integer Autoregressive Model. 5th EMR-IBS conference, Istanbul, May 2009*

46. Bermudez-Morata, L. and Karlis, D. (2009) Modelling Dependence in a Ratemaking Procedure Using Bayesian Multivariate Poisson Regression Models. 13th Conference in Insurance: Mathematics and Economics, Istanbul, May 2009
47. Ghitany, M, Karlis, D. AL-Mutairi, D. (2010) Multivariate Poisson-Inverse Gaussian Regression Model. In The 7th Conference on Multivariate Distributions with Applications, Maresias, Sao Paolo, Brazil, August 2010
48. Pedeli, X. and Karlis, D. (2010) On Some Multivariate Integer-Valued Autoregressive Models. 28th European Meeting of statisticians, Athens Greece, August 2010
49. Orfanogiannaki, K. and Karlis, D. (2010) Multivariate Hidden Markov Models for discrete data. 28th European Meeting of Statisticians, Athens Greece, August 2010
50. Pedeli, X. and Karlis, D. (2011) On a Modified Bivariate INAR(1) Process 2nd International Workshop on Integer Valued Time Series, Cyprus, June 2011

Technical reports

(only those that have not been published in journals)

- Karlis, D. and Xekalaki E. (1999) Maximum likelihood estimation for the Poisson-binomial distribution via the em algorithm with applications to discrete time series models. *Technical Report 62, Dept of Statistics Athens University of Economics March 1999*
- Karlis, D. and Xekalaki E. (1999) Polygonal Distributions. *Technical Report 88, Dept of Statistics Athens University of Economics July 1999*
- Karlis, D. and Xekalaki, E. (2000) On some distributions arising from the Triangular Distribution *Technical Report 111, Department of Statistics, Athens University of Economics August 2000*
- Yiokari, N., Xekalaki, E. and Karlis, D. (2001). "On Some Discrete-Valued Time Series Models Based on Mixtures and Thinning", *Technical Report no 126, Department of Statistics, Athens University of Economics and Business, February 2001.*
- Karlis, D. And Xekalaki, E. (2001). On Implementing The EM Algorithm In Finite Poisson Mixtures. *Technical Report No 132, Department of Statistics, Athens University of Economics, March 2001*
- Karlis, D. (2001) A Cautionary Note About The EM Algorithm For Finite Exponential Mixtures. *Technical Report No 150, Department of Statistics, Athens University of Economics August, 2001*
- Karlis, D. and Papadimitriou, A. (2003). Maximum likelihood estimation for the multivariate Normal Inverse Gaussian model. *Technical Report No 202, Department of Statistics, Athens University of Economics, September, 2003*
- Geurts, K., Wets, G., Brijs, D., Karlis, D. and Vanhoof, K. (2004). Ranking and selecting dangerous accident locations: Correcting for the number of passengers and Bayesian Ranking plots. *Technical Report, RA-2004-43, The Policy Research Centre for Traffic Safety, Belgium.*

- Orfanogiannaki, K., Karlis, D, and Papadopoulos, G. (2008) Identification of seismicity patterns using Poisson Hidden Markov models *Technical Report No 237, Department of Statistics, Athens University of Economics, July, 2008*
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PhD Thesis

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- T.2. Novak, D.C. (2001) A Methodology For Characterization And Performance Analysis Of Connection-Based Network Access Technologies, *PhD Thesis Faculty of the Virginia Polytechnic Institute and State University*
- T.3. Lorens A.N. (2005) Evaluación en el modelado de las respuestas de recuento, PhD thesis, Universitat de les Illes Balears, Majorca, Spain

- T.4. Echavarría, L.E.O. (2004) Semiparametric Bayesian Count Data Models. Phd Thesis, Faculty of Mathematics, Computer Sciences and Statistics, Ludwig–Maximilians–University, Munich
- T.5. Whitinh, J.P. (2006) Identification and modeling hydrological persistence with hidden Markov models. PhD thesis, University of Adelaide, Australia
- T.6. Vonglao, P. (2007) The Solution Of Traffic Signal Timing By Using Traffic Intensity Estimation And Fuzzy Logic Edith Cowan University
- T.7. Karunanayake, C.P. (2007) Multivariate Poisson Hidden Markov Models For Analysis Of Spatial Counts PhD Thesis, Department of Mathematics and Statistics, University of Saskatchewan, Saskatoon, Canada
- T.8. Pinto, L.W. (2006) Aplicacao de modelos de misturas finitas na classificacao de areas de risco para tuberculose. Phd thesis, University of Rio de Janeiro
- T.9. Ferreira Nunes Barata, T.C. (2006) Two Examples of Curve Estimation Using Markov Chain Monte Carlo Methods PhD thesis, Newnham College, University of Cambridge
- T.10. Μάρκος, Α.Ι. (2006) Βοήθεια στην ερμηνεία των αποτελεσμάτων της Παραγοντικής Ανάλυσης των Αντιστοιχιών και αλγόριθμοι κατασκευής και ανάλυσης ειδικών πινάκων εισόδου Διδακτορική Διατριβή, Τμήμα Πληροφορικής, Πανεπιστήμιο Μακεδονίας
- T.11. Μενεξές, Γ.Χ. (2006) Πειραματικοί Σχεδιασμοί στην Ανάλυση Δεδομένων. Διδακτορική Διατριβή, Τμήμα Πληροφορικής, Πανεπιστήμιο Μακεδονίας
- T.12. Τζήμος, Χ. (2006) Η ανάλυση δδομένων στις διακλαδικές σχέσεις και δομές της ελληνικής οικονομίας Διδακτορική Διατριβή, Τμήμα Πληροφορικής, Πανεπιστήμιο Μακεδονίας
- T.13. Ana Maria Souza de Arauzo (2007) Modelos nao lineares para dados de contagem longitudinais. Phd Thesis Universidade de Sao Paulo, Escola Superior de Agricultura “Luiz de Queiroz”.
- T.14. Jean-Philippe Boucher (2007) Segmentation du nombre de sinistres en assurance: de la loi de Poisson aux modelles gonfles a zero et a barriere. Phd Thesis, Insitute des sciences actuarielles, Universite Catholique de Louvain

Technical Reports - Conferences

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- O.4. W. Seidel, H. Sevcikova (2002): On EM Versions with Gradient Function Update for Finite Mixtures. *Diskussionsbeiträge zur Statistik und Quantitativen Ökonomik 103* (2002), Universität der Bundeswehr Hamburg.

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- O.51. Lee, D., Salway R., Shaddick, G. and Walker, S. (2008) A Bayesian moving average model for correlated count data. Technical Report 07-08, University of Bath, Dept of Statistics
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- O.57. Watthanacheewakul, L. and Suwattee, P. (2007) Comparison of Power of Three Tests of Equality of Means of Pareto Populations, The 9th International DSI Conference in conjunction with The 12th APDSI Conference, Bangkok, July, 2007.
- O.58. K. Hirakawa and P. J. Wolfe, "SkellamShrink: Poisson intensity estimation for vector-valued data."In Proceedings of the 2009 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2009.
- O.59. Deng, X., Li, R., Liu, X. (2008) Conditional mean and conditional variance for Ali-Mikhail-Hap copula (2008) 2008 International Conference on Wireless Communications, Networking and Mobile Computing, WiCOM 2008, art. no. 4680437, .
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- O.61. Harald Oberhofer, H., Philippovichz, T. and Winner, H. (2008) Distance Matters! Evidence from Professional Team Sports, University of Innsbruck, Working Papers in Economics and Statistics No. 2008-16
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- O.64. Abdullah, L., Zamri, N. (2010) On the causes of road accidents: Fuzzy TOPSIS *2nd International Conference on Computer Research and Development, ICCRD 2010* , art. no. 5489614, pp. 497-501
- O.65. Fernandes, P., Lopes, L., Ruiz, D.D.A. (2010) The impact of random samples in ensemble classifiers. *Proceedings of the ACM Symposium on Applied Computing* , pp. 1002-1009
- O.66. Wang, L.-L., Hou, X.-Y., Xiong, Y.-Y. (2010) Outliers data mining in normal-inverse Gaussian model. *ICIC 2010 - 3rd International Conference on Information and Computing 1*, art. no. 5514191, pp. 231-234

Invited Talks

- Multivariate Poisson models: Invited talk in the Department of Applied Economics, University of Diependeek, Limburg, Belgium. (23 October 2002)
- Short course on Bayesian Statistics: Department of Applied Economics, University of Diependeek, Limburg, Belgium. (13-14 February 2003)
- An introduction to Bootstrap: short course during the 17th Panhellenic Statistical Conference Lefkada, April 2004.
- Issues in statistical Credit scoring , Norwegian Business School, Bergen, Norway (30 April, 2004)
- Advanced Statistical models in credit scoring. Department of Applied Economics, University of Diependeek, Limburg, Belgium. (May 2004)
- On modelling multivariate count data, Department Of Biostatistics, Katholik Universitair Leueven, April (2005)
- Model Based Clustering for non-elliptical distributions. Invited talk in Dept of Mathematics and Statistics, University of Lancaster, 27 June, 2007
- Treating missing values in INAR model with an application to syndromic surveillance, 18 April, 2008, Center for Statistics, University of Hasselt.
- Statistical modeling for soccer data. Norwegian School of Economics and Business Administration, Bergen, Norway, September 2008
- Missing Data for discrete time series models. 12 December 2008, Dept of Statistics, University of British Columbia, Canada
- “Mixed Poisson Distribution” 18 October, 2009, Department of Statistics and Operational Research, University of Kuwait, Kuwait City.
- “On models for multivariate count data”, February 4th, 2010, University of Barcelona
- “Modeling multivariate time series for counts” on September, 2010, University of Hasselt

Lecture Notes

1. Computational Statistics (255 pages)
2. Multivariate Statistical Analysis (340 pages)
3. Statistics for Archaeometrics (150 pages)
4. An Introduction to SPLUS/R (185 pages)

Books

Πολυμεταβλητή Στατιστική Ανάλυση (2005, Εκδόσεις Σταμούλη)

Refereeing (117 άρθρα)

- *Annals of Applied Statistics* (2)
- *Applied Stochastic Models in Business and Industry* (1)
- *Applied Mathematical Letters* (1)
- *Australian and New Zealand Journal of Statistics* (1)
- *Biometrical Journal* (2)
- *Biometrics* (3)
- *Biometrika* (1)
- *Brazilian Journal of Probability and Statistics* (1)
- *Canadian Journal of Statistics* (1)
- *Communications in Statistics* (5)
- *Computational Statistics and Data Analysis* (27)
- *Computers and Mathematics with Applications* (1)
- *Haceteppe Journal of Mathematics and Statistics* (1)
- *IMA Journal of Management Mathematics* (3)
- *Information Sciences* (1)
- *International Journal of Applied Earth Observation and Geoinformation*(1)
- *International Journal of Forecasting* (1)
- *International Journal of Systems Science* (1)
- *Journal of American Statistical Association* (4)
- *Journal of Applied Probability and Statistics* (1)
- *Journal of Applied Statistics* (4)
- *Journal of Econometrics* (1)
- *Journal of Multivariate Analysis* (4)
- *Journal of Probability and Statistics* (3)
- *Journal of Quantitative Analysis in Sports* (1)
- *Journal of Sports Economics* (1)
- *Journal of Statistical Computation and Simulation*(1)
- *Journal of Statistical Planning and Inference* (4)
- *Journal of Statistical Theory & Practice* (1)
- *Journal of the Royal Statistical Society - Series D* (1)
- *Journal of the Royal statistical Society- Series A* (1)
- *Metron* (1)
- *Neural Network World* (1)
- *OR Spectrum* (1)
- *Quality Technology and Quantitative Management* (1)
- *Pakistan Journal of Statistics* (2)

- *Sankhya* (1)
- *Statistical Methods and Applications* (1)
- *Statistical Modeling: An International Journal* (7)
- *Statistical Papers* (1)
- *Statistics*(2)
- *Statistics and Computing* (6)
- *SORT (Statistics and Operations Research Transactions)* (1)
- *Statistics and Probability Letters* (4)
- *Statistics in Medicine* (4)
- *Stochastic Environment Research* (1)
- *Transactions in Pattern Recognition and Machine Intelligence* (1)
- *Test* (2)

Other

- Erasmus Scholarship for University of Sheffield, Departments of Probability and Statistics (January – April 1992)
- Scholarship from Greek Scholarship Foundation for Phd research in Applied Statistics (1993-1998)

Memberships

- Member of the American Statistical Association
- Member of the International statistical Institute
- Member of the International Biometric Society Eastern Mediterranean Region
- Member of the Greek Statistical Institute

Organizing Committees

- Member of the Organizing Committee of the 17th Workshop on Statistical Modelling in Chania (July 2002)
- Member of the Organizing Committee of the 17th Greek Statistical Conference in Lefkada (April 2004)
- Member of the Organizing Committee of the 3rd EMR-Biometrics Conference in Kerkira (May 2005)
- Member of the Organizing Committee of the ISCB conference in Alexandroupolis (July 2007)
- Member of the Organizing Committee of the 6rd EMR-Biometrics Conference in Crete (May 2011)

Phd Committees

- Member of the jury of the Ph D presentation of Tom Brijs, Limburg Univeristy, Belgium.
- Member of the jury of the Ph D presentation of Veanous Arakelian, Athens University of Economics Greece
- Member of the jury of the Ph D presentation of Liu Feng, Univeristy of Hasselt, Belgium. (2007)
- Member of the jury of the PhD presentation of Ms Sonia Malefaki, University of Peireaus, Greece (Septmeber 2008)
- Member of the jury of the PhD presentation of Mr Kostas Fragiadakis, Athens University, Greece (September 2009)

- Member of the jury of the PhD presentation of Mr Shaochuan Lu, School of Mathematics, Statistics and Operations Research, Victoria university of Wellington, New Zealand
- Member of the jury of the PhD presentation of Mr Panagiotis Papastamoulis, University of Peireaus, Greece (September 2010)

Editorships

- Associate Editor for Metron journal (2007-)
- Associate Editor for Communications in Statistics (2008 -)
- Associate Editor for IMA Journal of Mathematics in Management (2009 -)

Other

- Reviewer για το *Zentralblat MATH* (23 reviews) .
- Visitor in Limburg Univeristy, Belgium (January- February 2003)
- Invited Speaker in the TRB2006 conference, Washington DC, Session of time series
- Publicity Officer of the EMR-IBS (2007-2009)
- Visitor, institute of Transportation, Hasselt University (February – June 2008)

Thesis supervised

PhD Thesis

Completed

1. Nikoloulopoulos, A.K. (2007) Applications of copula function in statistics.
2. Pedeli X. (2011) Multivariate time series models for count data

Ongoing

1. Pouloupoulou, S. (2008 -) Issues on clinical trials
2. Orfanogiannaki, K. (2008-)

MSc. Theses

Finished

1. Μπαντή Μ. (2003). Additive and Semi-parametric models for domestic water consumption
2. Ματσιούλα Α. (2004) Random Effects Models for Binary Data
3. Καλαμίδα, Γ. (2005) Statistical Modeling for football data: A Robust Approach based on Weighted Maximum Likelihood
4. Ορφανογιαννάκη Κ. (2005) Identification of seismicity patterns through Hidden Markov Models.
5. Πιτρακκου, Μ. (2005) Bayesian estimation for the Poisson-Inverse Gaussian regression model.
6. Γαβράς, Α. (2005). Μοντέλα χρονολογικών σειρών για διακριτά δεδομένα με εφαρμογή στη στατιστική ανάλυση ατυχημάτων
7. Σερμαϊδης Γ. (2006) Modelling time series of counts with an application on daily car accidents
8. Ποντικας, Γ. (2006) On the identification of hazardous locations on road segments based on spatial data
9. Μητσόπουλος, Γ. (2007) Maximum Likelihood Estimation for Overdispersed Binomial and Multinomial Data through an EM Algorithm
10. Σαντουριαν, Α. (2007) Model Based Clustering With Non-Elliptically contoured Distributions

11. Δαλμάρα Α. (2008) MCMC estimation of Poisson Integer – valued Autoregressive Moving Average time series models
12. Φλάκας Γ. (2008) Exploratory Analysis, Model Selection and Checking of Structural Assumptions in Football data

Part-time Master Program

1. Δήμας Α. (2004) Εφαρμογή της μεθόδου ανάλυσης αντιστοιχιών στο μάρκετινγκ
2. Παπαρσενίου, Β. (2004) Διασπορά βλημάτων πυροβολικού
3. Κυζερόπουλος Α.Δ. (2007) Κατηγοριοποίηση της συμπεριφοράς πλοήγησης των επισκεπτών ενός δικτυακού τόπου μέσω της χρήσης του EM αλγορίθμου
4. Γιανναρέλης Γ. (2007) Συστήματα διαχείρισης πιστωτικού κινδύνου
5. Σπέγκος, Β. (2007) Πολυμεταβλητή ανάλυση με τη μέθοδο των κυρίων συνιστωσών σε κορυφαίους δεκαθλητές τα ετη 1998-2005
6. Καψανάκης, (2008) Ζευξη αμυντικών δαπανών Ελλάδας και Τουρκίας
7. Βλαχομήτρος Ε. (2008) Πρόβλεψη αγώνων basketball με τη χρήση σταθμισμένων ελαχίστων τετραγώνων
8. Athanasiou, A. (2010) The Clinical and Prognostic Value of NT-Pro BNP in Mitral Valve Surgery
9. Μάλιαρης, Χ. (2011) Γραπτοί Διαγωνισμοί ΑΣΕΠ Μαθηματικών 2002, 2004, 2006 και 2008 : Στατιστική Επεξεργασία
10. Χατζηαναστασίου (2011) Εργατικά Ατυχήματα στη ΔΕΗ (1999-2009) – Στατιστική Ανάλυση
11. Παπαγιαννακοπούλου, Χ. (2011) Clustering Validation Techniques on microarray data

Ταγκοπούλου
Πολυκρητη
Νταλαμαγκας
Λιακόπουλος
Νικολαιδης
Σαινης
Κουτρομπας

Papers submitted

1. Fragiadakis, K., Karlis, D, Meintanis, S.G. (2009) Inference Procedures for the Variance Gamma Model and Applications
2. Pouloupoulou, S., Karlis D and Dafni, U. (2010) Optimal Multi-Stage Phase II Design with Sequential Testing of Hypotheses within Each Stage
3. Arakelian, V. and Karlis, D. (2009) Clustering dependencies via mixtures of copulas.
4. Kosmidis, I. and Karlis, D. (2010) Supervised sampling for clustering large samples
5. Pedeli, X. and Karlis, D. (2010). On composite likelihood estimation of a multivariate INAR(1) model
6. Pedeli, X. and Karlis, D. (2011) A modified BINAR(1) Process
7. Karlis, D. and Pedeli, X. (2011) Flexible bivariate INAR(1) model using copulas
8. Bermudez, L. and Karlis, D. (2011) Mixture of Bivariate Poisson Regressions with an Application to insurance
9. Ghitany, M., Karlis, D., Al-Mutiari, D. and Al-Awhadi, F. (2011) Expectation-Maximization algorithm for multivariate mixed Poisson regression models and its application

Pending

submitted

under revision

revised

Working Papers

1. Iliopoulos, G. and Karlis, D. (2002) Maximum Likelihood estimation for the Dowton exponential distribution
2. Karlis, D. (2002) Extended models based on the NIG distribution
3. Andersson, J., Karlis, D. and Liljestol, J. (2004). Inverse Gaussian stochastic volatility
4. Brijs, T., Karlis, D. , (2005). Bivariate negative binomial regression models for marketing applications
5. Brijs, T., Karlis, D. , (2005). Bayesian analysis for the Poisson inverse Gaussian regression model
6. Karlis, D. and Kalamidas, G (2005) Weighted Maximum Likelihood approach in Poisson regression with applications to sports
7. Karlis and Braimakis (2006) Bayesian MNIG
8. Karlis (2006) Data fusion

9. Karlis Patilea sieves
10. Karlis Bermudez, bivariate bonus malus
11. Karlis and Dafni: Survival curves fro crossover
12. KArlis and Faes
13. KArlis, Brijs, Moons: copulas accidents
14. Andersson, Karlis ZINAR