

Athanassios Katsis, Ph.D.

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Athanassios Katsis, Ph.D.

Associate Professor

Statistics in Educational Research

Contact

katsis@uop.gr / (tel) 30-27410-74987 / (fax) 30-27410-74990

Education

Ph.D., Statistics, The George Washington University, USA, 1997

Master of Philosophy, Statistics, The George Washington University, USA, 1995

B. Sc., Mathematics, University of Athens, Greece, 1990

Employment

- Department of Social and Educational Policy, University of Peloponnese,

Korinthos, Greece, 2004—present

- Department of Statistics and Actuarial Science, University of the Aegean,

Samos, Greece, 2002-2004

- Center for Educational Research, Athens, Greece, 2000-2002
- The World Bank, Washington, 1996-1998
- Visiting Assistant Professor, University of Cyprus & Toledo, Ohio

Research interests

Bayesian Statistics, sample size determination, statistical modeling in educational data

Journal articles

1. Moniarou-Papaconstantinou V., Tsatsaroni, A., Katsis, A., Koulaidis, V., (2010).

LIS as a field of study: socio-cultural influences on students' decision making, *Aslib*

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2. Katsis, A., Nistazakis, H. E. and Tombras, G. S. (2009). Bayesian and frequentist

estimation of the performance of free space optical channels under weak

turbulence conditions. *Journal of the Franklin Institute*, 346, 4, 315-327.

3. Apostolopoulos, C., Psalidas, A., Hatzinikita, V., and Katsis, A. (2008). Studying

Greek Students' Performance on PISA Science Items. *The International Journal of*

Learning, 15, 8, 1-10.

4. Katsis, A., Martzoukos, S., and Yannacopoulos, A. (2008). Bayesian Statistical

Expert Opinion in Option Pricing. *Journal of Statistical Theory and Applications*, 7,

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5. Stamey, J., and Katsis, A. (2007). A sample size determination for comparing two

Poisson rates with underreported counts. *Communications in Statistics, Statistics and*

Simulation, 36, 483-492.

6. Katsis, A., and Nistazakis H. E. (2007). A flexible Bayesian algorithm for sample

size determination in the case of misclassification. *Applied Mathematics and*

Computation, 184, 86-92.

7. Limakopoulou, A., and Katsis A. (2006). Bayesian sample size calculations

involving the reliability coefficient of a scale in social sciences. *Journal of Statistical*

Theory and Applications, 4, 381-390.

8. Koulaidis, V., Dimopoulos, K., Tsatsaroni, A., and Katsis, A. (2006). Young

People's relations to Education: The Case of Greek Youth. *Educational Studies*,

32, 343-359.

9. Katsis, A., and Ntzoufras, I. (2005). Bayesian Hypothesis Testing for the

Distribution of Insurance Claim Counts Using the Gibbs Sampler. *Journal of*

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10. Katsis, A., and Nistazakis, H. E. (2005). An interval-based criterion for sample

size determination in the case of misclassification. *Journal of Statistical Theory*

and Applications, 4, 325-340.

11. Katsis, A. (2005). Sample size determination of binomial data with the presence

of misclassification. *Metrika*, 62, 323-329.

12. Ntzoufras, I, Katsis, A., Karlis, A. (2005). Bayesian Assessment of the

Distribution of Insurance Claim Counts Using the Reversible Jump Algorithm.

North American Actuarial Journal, 9, 90-105.

13. Katsis, A. (2004). Sample size for testing the homogeneity of two a priori

dependent binomial populations using the Bayesian approach. *Journal of Applied*

Mathematics and Decision Sciences, 8, 33-42.

14. Katsis, A., and Toman, B. (2004). A Bayesian Double Sampling Scheme for

Classifying Binomial Data. *The Mathematical Scientist*, 29, 49-53.

15. Katsis, A. (2003). New Bayesian Criteria for Optimizing the Combined Sample

Size for Dependent Binomial Populations. *Journal of Statistical Theory and*

Applications, 2, 267-277.

16. Katsis, A. and Toman, B. (2002). A Bayesian Design for the Optimal Allocation

of Binomial Samples. *Journal of Applied Statistical Science*, 11, 297-306. (έχει

αναδημοσιευθεί στο Focus on Applied Statistics (2003), editor: Ahsanullah, M.,

185-194, Nova Science Publishers, New York).

17. Katsis, A. (2001). Calculating the Optimal Sample Size for Binomial Populations.

Communications in Statistics, Part A, Theory & Methods, 30, 665-678.

18. Katsis, A., and Toman, B. (1999). Bayesian Sample Size calculations for binomial experiments. *Journal of Statistical Planning and Inference*, 81, 349-362.

19. Katsis, A., Psacharopoulos, G., and Mattson, R. (1999). Explaining the Educational Development in Pakistan: An Analysis of the 1991 Household Survey. *Journal of Educational Planning and Administration*, XII, 17-36.

20. Drosos, G., Stavropoulos, N., Katsis, A., Kesidis, K., Kazakos, K., and Verettas, D (2008). Post-Operative Pain After Knee Arthroscopy and Related Factors. *The Open Orthopaedics Journal*, 2, 110-114.

21. Halkiadakis, I., Kipioti, A., Emfietzoglou, I., Grigoropoulos, V., Katsis, A., Alimisi, S., Vergados, I., Theodossiadis, P., and Theodossiadis, G. (2008).

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in Glaucoma, Ocular Hypertension, and Suspected Glaucoma. *Ophthalmic*

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