EDUCATION

Degree in Mathematics, Department of Mathematics, University of Patras, Greece. Grade: 8.37/10 (1998).

M.Sc. in Mathematics of Computers and Decision Making, major in Statistics, Department of Mathematics and Department of Computer Engineering and Informatics, University of Patras, Greece. Grade: 8.86/10 (2003).

Ph.D. in Statistics, Department of Mathematics, University of Patras, Greece (2010).

ACADEMIC APPOINTMENTS

Assistant Professor, Dept. of Mathematics, University of Patras, Greece (Mar. 2025-to date).

Assistant Professor, Dept. of Mathematics, University of Thessaly, Greece (Nov. 2020-Mar. 2025).

Temporary Teaching Staff, Dept. of Mathematics, University of Thessaly, Greece (Oct. 2020-Nov. 2020).

Temporary Teaching Staff, Dept. of Mathematics, University of Patras, Greece (Feb. 2018-Jun. 2020).

Associate Researcher, Department of Statistics and Insurance Sciences, University of Piraeus, Greece (Mar. 2017-Jun. 2017).

Research Fellow, Southampton Statistical Sciences Research Institute, University of Southampton, United Kingdom (Feb. 2015-Feb. 2017).

Postdoctoral Researcher, Institute of Statistics, RWTH Aachen University, Germany (Dec. 2012-Nov. 2014).

Adjunct Lecturer, Department of Computer Science and Biomedical Informatics, University of Thessaly, Greece (Oct. 2012-Dec. 2012).

Temporary Teaching Staff, (i) Dept. of Business Administration (ii) Dept. of Accounting and (iii) Dept. of Speech and Language Therapy, Technological Educational Institute of Patras, Greece (Apr. 2010-Dec. 2012).

RESEARCH

(a) PhD Thesis

"Strawderman-type estimators for scale parameters", in greek (Supervisor: Professor Stavros Kourouklis).

(b) Refereed papers

[1] Bobotas P. and Kourouklis S. (2009). Strawderman-type estimators for a scale parameter with application to the exponential distribution. *J. Statist. Plan. Infer.* 139, 3001-3012.

[2] Bobotas P. and Kourouklis S. (2010). On the estimation of a normal precision and a normal variance ratio. *Statist. Meth.* 7, 445-463.

[3] Bobotas P. and Kourouklis S. (2011). Improved estimation of the scale parameter, the hazard rate parameter and the ratio of the scale parameters in exponential distributions: An integrated approach. *J. Statist. Plan. Infer.* 141, 2399-2416.

[4] Bobotas P., Iliopoulos G. and Kourouklis S. (2012). Estimating the ratio of two scale parameters: a simple approach. *Ann. Inst. Statist. Math.* 64, 343-357.

[5] Bobotas P. and Kourouklis S. (2013). Improved estimation of the covariance matrix and the generalized variance of a multivariate normal distribution: some unifying results. *Sankhya A,* 75, 26-50.

[6] Bobotas P. and Kateri M. (2015). The step-stress tampered failure rate model under interval monitoring. *Statist. Meth.* 27, 100-122.

[7] Bobotas P. and Kourouklis S. (2017). Estimation of the smallest normal variance with applications to variance components models. *Statist. Prob. Lett.* 131, 38-45.

[8] Bobotas P. (2019). Estimation of the smallest scale parameter of two-parameter exponential distributions. *Commun Statist. –Theory Meth.* 48(11), 2748-2765.

[9] Bobotas P. (2019). Improved estimation of the smallest scale parameter of gamma distributions. *J. Korean Statist. Soc.* 48, 97-105.

[10] Bobotas P. and Koutras M.V. (2019). Distributions of the minimum and maximum of a random number of random variables. *Statist. Prob. Lett.* 146, 57-64.

[11] Bobotas P. and Kateri M. (2019). Optimal designs for step-stress models under interval censoring. *J. Stat. Theory Pract.,* 13:54.

[12] Bobotas P. and Koutras M.V. (2024). On the preservation of ageing properties under random maxima. *Statist. Probab. Lett.* 210, 110111.

(c) Conference papers

[1] Bobotas P. and Kourouklis S. (2006). A new class of improved estimators of the scale parameter of exponential distribution. *Proceedings of the 19th Panhellenic Statistics Conference*, 393-400 (precursor of paper [b1]).

[2] Bobotas P. and Kourouklis S. (2008). New classes of improved estimators for the ratio of normal variances. *Proceedings of the 21st Panhellenic Statistics Conference*, 241-248 (precursor of paper [b2]).

[3] Bobotas P. and Kourouklis S. (2010). Strawderman-type estimators for the scale parameter, the reciprocal of the scale parameter and the ratio of the scale parameters of exponential distributions. *Proceedings of the 23rd Panhellenic Statistics Conference* (*Appendix of the Proceedings of the 25th Panhellenic Statistics Conference*), 347-355 (precursor of paper [b3]).

[4] Bobotas P. and Kourouklis S. (2011). New classes of improved estimators for the covariance matrix of a multivariate normal distribution. *Proceedings of the 24th Panhellenic Statistics Conference,* 239-246 (precursor of paper [b5]).

[5] Bobotas P. and Kourouklis S. (2012). Estimation of the smallest variance of two normal populations. *Proceedings of the 25th Panhellenic Statistics Conference,* 151-158.

[6] Bobotas P. Koutras M.V. (2017). Distributions of the minimum and maximum of a random number of random variables *Proceedings of the 30th Panhellenic Statistics Conference,* 35-43 (precursor of paper [b10]).

[7] Bobotas P. and Kourouklis S. (2023). Improved estimation of parameters of an inverse Gaussian distribtuion. *Proceedings of the 35th Panhellenic Statistics Conference* (to appear).

(d) Technical Reports

[1] Bobotas P., Kimber A., Biedermann S. (2017). Sensitivity analysis for informative censoring in parametric survival models: an evaluation of the method. University of Southampton. https://eprints.soton.ac.uk/id/eprint/405655.

CONFERENCES

1. 13th Panhellenic Statistics Conference (GSI), 2000 (participation).
2. 19th Panhellenic Statistics Conference (GSI), 2006 (with presentation).
3. 21st Panhellenic Statistics Conference (GSI), 2008 (with presentation).
4. 23rd Panhellenic Statistics Conference (GSI), 2010 (with presentation).
5. 28th European Meeting of Statisticians (EMS), Piraeus 2010 (with presentation).
6. 24th Panhellenic Statistics Conference (GSI), 2011 (with presentation).
7. 25th Panhellenic Statistics Conference (GSI), 2012 (with presentation).
8. 29th European Meeting of Statisticians (EMS), Budapest 2013 (with presentation).
9. Statistische Woche (DstatG), Berlin 2013 (with presentation).
10. Ordered data analysis, models and health research methods: An international conference in honor of H.N. Nagaraja for his 60th birthday, Dallas 2014 (participation).
11. 4th Annual survival analysis for junior researchers conference, Keele University 2015 (participation).
12. 5th Annual survival analysis for junior researchers conference, University of Leeds 2016 (with presentation).
13. RSS 2016 International Conference, Manchester 2016 (with poster presentation).
14. CMStatistics 2016, Seville 2016 (with presentation).
15. 31st Panhellenic Statistics Conference (GSI), 2018 (with presentation).
16. 32nd Panhellenic Statistics Conference (GSI), 2019 (with presentation).
17. 33rd Panhellenic Statistics Conference (GSI), 2021 (with presentation).
18. 35th Panhellenic Statistics and 1st International Statistics Conference (GSI), 2023 (with presentation).
19. 10th International Workshop on Applied Probability (IWAP 2023), Thessaloniki 2023 (with presentation).
20. 36th Panhellenic Statistics and 2nd International Statistics Conference (GSI), 2024 (with presentation).

PARTICIPATION IN RESEARCH PROJECTS

1. Seed Fund Project (2013) “Inference and optimal planning for step-stress accelerated life testing under interval censored sampling” of the RWTH Aachen University, funded by the Excellence Initiative of the German Federal and State Governments (papers b[6] and b[11]).
2. Medical Research Council (grant MR/M005909/1) and the National Institute for Health Research (grant RMOFS-2013-03-07), United Kingdom (technical report d[1]).
3. National Matching Funds 2014-2016 of the Greek Government, General Secretariat for Research and Technology (GSRT), related to EU project “ISMPH: Inference for a Semi-Markov Process” (GA No. 329128) (papers c[6], b[10]).

RESEARCH INTERESTS

Statistical Decision Theory, Improved Estimation of Parameters, Multivariate Statistical Analysis, Parametric Inference, Accelerated Life Testing, Survival Analysis and Censored Data, Ageing Properties.

TEACHING EXPERIENCE

Teaching Assistant for 8 semesters, Department of Mathematics, University of Patras, Greece:

1. Operational Research (fall 1999-2000).
2. Statistics I (fall 2006-2007, 2007-2008, 2009-2010).
3. Statistics II (spring 2007-2008).
4. Statistics I (SPSS lab, fall 2006-2007).
5. Statistics II (SPSS lab, spring 2006-2007).
6. Linear Models (SPSS lab, fall 2007-2008).
7. Data Analysis (SPSS lab, spring 2007-2008).
8. Probability Theory I (fall 2008-2009, 2009-2010).
9. Probability Theory II (spring 2008-2009).

Temporary Teaching Staff, Apr. 2010-Dec. 2012, Technological Educational Institute of Patras, Greece, courses taught:

1. Linear Programming (spring 2009-2010, Dept. of Business Administration).
2. Financial Mathematics (fall 2010-2011, Dept. of Accounting).
3. Mathematics for Economists (fall 2010-2011, Dept. of Accounting)
4. Financial Mathematics (spring 2010-2011, Dept. of Business Administration).
5. Business Statistics (minitab lab, spring 2010-2011, fall 2011-2012, fall 2012-2013, Dept. of Accounting).
6. Research Methodology and Quantitative Data Analysis (fall and spring 2010-2011, fall and spring 2011-2012, fall 2012-2013, Dept. of Speech and Language Therapy).

Adjunct Lecturer, Oct. 2012-Dec. 2012, Department of Computer Science and Biomedical Informatics, University of Thessaly, Greece, course taught:

1. Probability and Elementary Statistics.

Teaching Assistant, Apr. 2013-Aug. 2013, Department of Mathematics, RWTH Aachen University, Germany, postgraduate course taught:

1. Decision Theory and Bayesian Inference.

Teaching Assistant, Feb. 2016-Jan. 2017, Department of Mathematical Sciences, University of Southampton, United Kingdom, undergraduate courses taught:

1. Stochastic Processes.
2. Statistical Distribution Theory.

Temporary Teaching Staff, Feb. 2018-Jun. 2020, Department of Mathematics, University of Patras, Greece, courses taught:

1. Sampling Theory (undergraduate).
2. Statistical Laboratory (postgraduate).
3. Selected Topics in Probability and Statistics (undergraduate).
4. Introduction to Data Analysis (undergraduate).

Temporary Teaching Staff, Oct. 2020-Nov. 2020, Department of Mathematics, University of Thessaly, Greece, courses taught:

1. Introduction to Combinatorics
2. Probability II

Assistant Professor, Nov. 2020-Mar. 2025, Department of Mathematics, University of Thessaly, Greece, courses taught:

1. Introduction to Combinatorics
2. Probability I
3. Probability II
4. Statistics I
5. Sampling
6. Survival Analysis
7. Bayesian Statistics
8. Stochastic Processes

ADMINISTRATIVE EXPERIENCE

Committees, Department of Mathematics, University of Thessaly, Greece:

Acad. year 2020-2021

1. Committee for the reformation of the Undergraduate Studies Programme and Studies Guide.
2. Committee for the evaluation of applications of PhD Candidates.
3. Committee for the online promotion of the Department.
4. Committees for the evaluation of applications of candidates after corresponding calls for covering teaching needs of the Department.

Acad. year 2021-2022

1. Committee for the reformation of the Undergraduate Studies Programme and Studies Guide.
2. Committee for Internal Evaluation of the Department, supporting member.
3. Committee for the evaluation of applications of PhD Candidates.
4. Committee for the online promotion of the Department, public relations, and event planning.
5. Committees for the evaluation of applications of candidates after corresponding calls for covering teaching needs of the Department.

Acad. year 2022-2023

1. Committee for the reformation of the Undergraduate Studies Programme.
2. Committee for Internal Evaluation of the Department.
3. Committee for Internal Evaluation of the Department, supporting member.
4. Committee for the evaluation of applications of PhD Candidates.
5. Committee for Internship.
6. Committee for the online promotion of the Department.
7. Committee for Networks and Equipment.
8. Committees for the evaluation of applications of candidates after corresponding calls for covering teaching needs of the Department.

Acad. year 2023-2024

1. Committee for the reformation of the Undergraduate Studies Programme.
2. Committee for Internal Evaluation of the Department.

3. Committee for the evaluation of applications of PhD Candidates.
4. Committee for the online promotion of the Department.

Accreditation of Undergraduate Studies Programme (Hellenic Authority for Higher Education), Department of Mathematics, University of Thessaly, Greece:
Presentation of the work of the Committee for Internal Evaluation of the Department to the External Evaluation & Accreditation Committee of the Undergraduate Studies Programme (Oct. 2022).

EXAMINATION COMMITTEE FOR PhD DISSERTATION

Member of the Examination Committee for the final examination and decision of the PhD dissertation of Mr. Nikolaos Panayiotou entitled "Nonparametric Control Charts" at the Department of Computer Science and Biomedical Informatics, University of Thessaly, Greece (Nov. 2023).

REFEREE/REVIEWER

Communications in Statistics – Theory and Methods.
Computational Statistics and Data Analysis.
Journal of Statistical Computation and Simulation.
Statistics.
Japanese Journal of Statistics and Data Science.
Journal of Statistical Theory and Applications.
Mathematical Reviews (AMS).

COMMITTEES

Scientific Committee, Second Congress of Greek Mathematicians SCGM-2022, Hellenic Mathematical Society.
Organizing Committee, 37th Panhellenic Statistics and 3rd International Statistics Conference, Larisa 2025.

MEMBERSHIP

Member of the Greek Statistical Institute (GSI).

DISTINCTIONS AND SCHOLARSHIPS

(a) Admitted third in the Department of Mathematics, University of Patras, after nation-wide examinations and awarded a scholarship from the State Scholarships Foundation (1994).
(b) Awarded a scholarship from the State Scholarships Foundation because of my academic performance (1996-1997).
(c) Graduated first from the Department of Mathematics, University of Patras (1998).
(d) Awarded a research scholarship from the Alexander S. Onassis Public Benefit Foundation as a PhD student (2005-2008).