

# Curriculum Vitae

Name : Fotios S. Milienos  
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## Education

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**Ph.D.** in Applied Probability and Statistics, Department of Statistics and Insurance Science, University of Piraeus, Greece, 3/2009.

**M.Sc.** in Applied Statistics, Department of Statistics and Insurance Science, University of Piraeus, Greece, 12/2004.

**B.Sc.** in Mathematics, Department of Mathematics, Aristotle University of Thessaloniki, Greece, 6/2002.

## Academic Experience

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2014-

**Lecturer (leave of absence until 31/7/2016)**

Department of Philosophy, Education and Psychology, University of Ioannina, Greece.

2013-

**Postdoctoral Fellow, Marie Curie International Outgoing Fellowship, 7th European Community Framework Programme**

Department of Mathematics and Statistics, McMaster University, Canada

Department of Statistics and Insurance Science, University of Piraeus, Greece

2012-2013

**Visiting Lecturer**

Department of Mathematics and Statistics, University of Cyprus, Cyprus

2011-2012

**Adjunct Lecturer**

Department of Philosophy, Education and Psychology, University of Ioannina, Greece

**Instructor**

Hellenic Open University, Greece

### **Adjunct Lecturer**

Department of Statistics and Insurance Science, University of Piraeus, Greece

2010-2011

### **Adjunct Lecturer**

Department of Statistics & Actuarial-Financial Mathematics, University of the Aegean, Greece

### **Adjunct Lecturer**

Department of Statistics and Insurance Science, University of Piraeus, Greece

2004-2009

### **Teaching Assistant**

Department of Statistics and Insurance Science, University of Piraeus, Greece.

## **Member of Research Projects**

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### *2/2014-10/2015 Research Project "Aristeia II"*

Title of Project: Patterns and scans theory in molecular biology, reliability engineering and experimental psychology

### *1/2005-12/2007 Research Project "Pythagoras II"*

Title of Project: New methods in statistical quality control, using runs theory and Chain-Stein techniques.

### *10/2004-6/2007 Research Project "Archimedes"*

Title of Project: Using modern computational tools to study reliability systems and related applications.

## **Research Work**

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### *Papers (published or submitted) in refereed journals and edited volumes*

1. Boutsikas, M.V., Koutras, M.V. and Milienos, F.S. (2015). Asymptotic results for the multiple scan statistic. submitted.
2. Balakrishnan, N., Koutras, M.V. and Milienos, F.S. (2015). Mixed start-up demonstration tests. submitted.

3. Karagiannopoulou, E. and Milienos, F.S. (2015) Experiences of the teaching-learning environment and approaches to learning. Testing the structure of the "Experiences of Teaching and Learning" in relation to earlier analyses. submitted.
4. Balakrishnan, N., Barui, S. and Milienos, F.S. (2015). Proportional hazards under COM-Poisson cure rate model and associated inference. submitted.
5. Balakrishnan, N., Koutras, M.V., Milienos, F.S. and Pal, S. (2015). Piecewise linear approximations for cure rate models and associated inferential issues. *Methodology and Computing in Applied Probability*, accepted.
6. Balakrishnan, N., Koutras, M.V. and Milienos, F.S. (2014). Start-up demonstration tests: models, methods and applications, with some unifications. *Applied Stochastic Models in Business and Industry*, **30**, 373-413 (discussion paper).
7. Balakrishnan, N., Koutras, M.V. and Milienos, F.S. (2014). Some binary start-up demonstration tests and associated inferential methods. *Annals of the Institute of Statistical Mathematics*, **66**, 759-787.
8. Karagiannopoulou, E. and Milienos, F.S. (2014). Testing two path models to explore relationships between students' experiences of the teaching-learning environment, approaches to learning and academic achievement. *Educational Psychology*, available online.
9. Karagiannopoulou, E. and Milienos, F.S. (2013) Exploring the relationship between experienced students' preference for open and closed-book examinations, approaches to learning and achievement. *Educational Research and Evaluation*, **19**, 271-296.
10. Koutras, M.V. and Milienos, F.S. (2012). Exact and asymptotic results for pattern waiting times. *Journal of Statistical Planning and Inference*, **142**, 1464-1479.
11. Godbole, A.P., Koutras, M.V. and Milienos, F.S. (2011). Binary consecutive covering arrays. *Annals of the Institute of Statistical Mathematics*, **63**, 559-584.
12. Godbole, A.P., Koutras, M.V. and Milienos, F.S. (2010). Consecutive covering arrays and a new randomness test. *Journal of Statistical Planning and Inference*, **140**, 1292-1305.
13. Boutsikas, M. V., Koutras, M.V. and Milienos, F.S. (2009). Extreme Value Results for Scan Statistics. In *Scan Statistics Methods and Applications* (Eds., Glaz, J., Pozdnyakov, V. and Wallenstein, S.), 57-82, Birkhauser.
14. Milienos, F.S. and Koutras, M.V. (2008). A lower bound for reliability function of multiple failure mode systems. *Statistics and Probability Letters*, **78**, 1639-1648.

#### *Work Under Preparation*

1. Balakrishnan, N., Koutras, M.V. and Milienos, F.S. (2015). Reliability analysis and plans for successive testing: start-up demonstrations tests and applications. Book Project by Elsevier.
2. Balakrishnan, N., Koutras, M.V. and Milienos, F.S. (2015). Semi-parametric inference for cure rate models.
3. Balakrishnan, N., Barui, S. and Milienos, F.S. (2015). A flexible semi-parametric cure rate model.

*Publications in conference proceedings*

1. Koutras, M.V., Balakrishnan, N. and Milienos, F.S. (2013). Start-up demonstration tests: A general approach. 26<sup>st</sup> Pan-Hellenic Statistics Convention Proceedings (in Greek).
2. Milienos, F.S. and Koutras, M.V. (2011). Asymptotic results for pattern waiting times. 24<sup>st</sup> Pan-Hellenic Statistics Convention Proceedings, 221-229 (in Greek).
3. Milienos, F.S., Koutras, M.V. and Godbole, A.P. (2008). Random covering arrays, 21<sup>st</sup> Pan-Hellenic Statistics Convention Proceedings, 223-230 (in Greek).
4. Milienos, F.S., Koutras, M.V. and Tsitmidelis, S. (2007). Optimization of a class of reliability bounds, 20<sup>th</sup> Pan-Hellenic Statistics Convention Proceedings, 259-266 (in Greek).
5. Milienos, F.S. and Koutras, M.V. (2006). A lower bound for the reliability function of a multiple failure mode systems, 19<sup>th</sup> Pan-Hellenic Statistics Convention Proceedings, 333-341 (in Greek).
6. Milienos, F.S., Koutras, M.V., Tsitmidelis, S. and Zissimopoulos, V. (2005). Study of a class of reliability bounds, 18<sup>th</sup> Pan-Hellenic Statistics Convention Proceedings, 225-235 (in Greek).

*Thesis*

1. Msc Thesis: Reliability Bounds, University of Piraeus, 2004.
2. PhD Thesis: Exact and Approximate Methods for the Study of Reliability Systems and Quality Control Problems, University of Piraeus, 2009.

## Conference and Seminar Presentations

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*Invited Talks*

- Mathematical Methods in Reliability (MMR, 2015, with two presentations)
- Applied Stochastic Models and Data Analysis (ASMDA 2015)
- Symposium in honour of Prof.Klonias, University of Crete (Greece, 2015)
- International Workshop in Applied Probability (IWAP, 2014)
- European Meeting of Statisticians (EMS, 2010)
- International Workshop in Applied Probability (IWAP, 2008)

*Talks, Posters and Seminars*

- Applied Stochastic Models and Data Analysis (ASMDA 2015)
- Biostatistics Seminars, Dalla Lana School of Public Health, University of Toronto (Toronto, 2015)
- Statistics seminars of School of Mathematics, Statistics and Operations Research, at Victoria University of Wellington (Wellington, 2014)

Statistics seminars of Department of Mathematics and Statistics, at McMaster University (Hamilton, 2014)

Statistics seminars of Department of Mathematics and Statistics, at McMaster University (Hamilton, 2013)

Statistics seminars of Department of Mathematics and Statistics, University of Cyprus, Cyprus (Nicosia, 2012)

24<sup>st</sup> Pan-Hellenic Statistics Convention (2011)

European Meeting of Statisticians (EMS, 2010)

European Network of Business and Industrial Statistics (ENBIS, 2008)

21<sup>st</sup> Pan-Hellenic Statistics Convention (2008)

20<sup>th</sup> Pan-Hellenic Statistics Convention (2007)

19<sup>th</sup> Pan-Hellenic Statistics Convention (2006)

18<sup>th</sup> Pan-Hellenic Statistics Convention (2005)

## Professional and Academic Activities

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→ Member of the Greek Statistical Institution

→ Referee for:

*Annals of the Institute of Statistical Mathematics (Springer)*

*Journal/Advances in Applied Probability (Applied Probability Trust)*

*Methodology and Computing in Applied Probability (Kluwer)*

*Statistics and Probability Letters (Elsevier)*

*Communications in Statistics - Simulation and Computation (Taylor & Francis)*

*Educational Psychology (Taylor & Francis)*

*Conference Proceedings from Pan-Hellenic Statistics Convention*

## Research Interests

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Social statistics

Pattern waiting times

Scan statistics

Start-up demonstration test

Reliability theory

Cure rate models

Random covering arrays

Statistical quality control

Randomness test

Markov chain embedding method

## Summary

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## Courses taught

### *Undergraduate Courses*

1. Statistical Methods (for psychologists, social and educational scientists)
2. Probability and Statistics (for engineers)
3. Applications of Statistics (for psychologists, social and educational scientists)
4. Multivariate Statistical Analysis (for statisticians/mathematicians)
5. Economic and Financial Statistics (for statisticians/mathematicians)
6. Introduction to Insurance (for statisticians/mathematicians)
7. Mortality Analysis (for statisticians/mathematicians)
8. Mathematics of Life Insurances (for statisticians/mathematicians)
9. Applied Statistical Analysis in Medicine (for health scientists)
10. Applied Data Analysis with SPSS (for statisticians/mathematicians)

### *Graduate Courses*

1. Advanced Computational Methods and Models (for computational scientists and engineers)
2. Theory of Estimation (for statisticians/mathematicians)
3. Topics in Multivariate Analysis (for statisticians/mathematicians)
4. Quality Assurance (for an interdisciplinary audience)
5. Statistical Reliability Theory and Life Testing (using SPSS, Mathematica and Minitab; for statisticians/mathematicians)
6. Simulation and Computational Statistics Methods (for statisticians/mathematicians)