



# CURRICULUM VITAE of Vassiliki Karioti

Assistant Professor  
Department of Tourism Management  
University of Patras

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# CURRICULUM VITAE

## ***Personal Data***

*Name:* Vassiliki  
*Surname:* Karioti  
*Date of Birth:* 24/9/73  
*Place of Birth:* Patras  
*Nationality:* Greek  
*Marital Status:* Married with two children

## ***Professional Position***

*Current Professional Position:* Assistant Professor, Department of Tourism Management, University of Patras. Academic Subject: “Applied Mathematics and Statistics with emphasis in Time Series”

*Address:* Department of Tourism Management  
M. Alexandrou 1, Koukouli, Patras  
Tel. 2610-962893  
*e-mail:* [vaskar@upatras.gr](mailto:vaskar@upatras.gr),

## ***Studies***

### ***Undergraduate Studies(1992-1996):***

*University:* University of Patras  
*Department:* Mathematics  
*Specialized in:* Statistics, Theory of Probability and Operational Research  
*Degree:* 8.01

### ***Postgraduate Studies (MSc)(1996-1997):***

*University:* UMIST (University

of Manchester Institute of Science  
and Technology, U.K.)

*Department :* Mathematics

*Title of MSc:* “Statistical Analysis and Stochastic  
Systems”

*Theses:* “Time series of peak expiratory  
flow”

*MSc Degree:* 79.14%

***Phd:***

*University:* National Technical University of Athens

*Department:* Applied Mathematics and Physical  
Sciences

*Phd Theses:* “The development of Statistical  
Methods in time series models for  
the detection of an outlying point  
or series”

### ***Career***

- 11/2018-5/2019: Assistant Professor at the Department of Accounting and Finance, Technological Educational Institution of Western Greece (Mesologi).
- 12/2005-10/2018: Assistant Professor at the Department of Accounting, Technological Educational Institution of Western Greece (Patras). Academic Subject: “Applied Mathematics with an emphasis on Economic Mathematics”
- 9/2000-12/2005: Research Assistant and Scientific Assistant at the Technological Educational Institution of Patras, School of Economic Management.
- 9/2002-6/2003: External Associate at the School of Pedagogical and Technological Education (ASPETE).
- 2003-2005 (winter semester): Lecturer 407/80 at the Department of Public Administration, Panteion University of Social and Political Sciences.

- 2004-2005 (spring semester): External Associate at the Multidisciplinary Master's program "Mathematical Modeling in modern Technologies and the Economy", offered jointly by five schools of the National Technical University of Athens (NTUA).
- 2004-2006, 2008-2011, 2013-2017: Collaborating Teaching Staff (SEP) at the Hellenic Open University of the Master's Program in "Quality Assurance".
- 2017-2019: Collaborating Teaching Staff (SEP) at the Hellenic Open University of the Undergraduate Program in "Management of Businesses and Organizations".
- 2013-2017 (spring semester): External Associate at the Multidisciplinary Master's program "Data driven Computing and decision Making", offered jointly by the Department of CEID and the Department of Mathematics of the University of Patras.
- 2020-up to day(spring): External Associate at the Master's Program "Computational and Analytical Statistics in Data Science"(MCDA) at the Department of Mathematics of the University of Patras.

## ***Teaching Experience***

### **A. Undergraduate Courses**

#### **I. Department of Tourism Management, University of Patras**

- Statistical Data Analysis (Theory & Lab)
- Operational Research
- Business Statistics (Lab)
- Statistical Processing of Experimental Data (Chemical Department of Patras)
- Introduction to Quantitative Methods
- Quantitative Methods (Lab)(Former Department of Tourism Business)
- Business Statistics (Former Department of Accounting and Finance)
- Econometrics (Former Department of Accounting and Finance)

## **II. Department of Accounting, TEI of Western Greece**

- Mathematics for Economists
- Economic Maths (also at the Department of Business Administration).
- Business Statistics
- Econometrics
- Control and Forecasting Methods (at the Department of Business Administration)
- General Mathematics (at the Department of Business Administration)

## **III. School of Management and Economics, TEI of Patras**

- Introduction to Business Statistics (Theory & Lab with SPSS)
- Selected Topics in Statistics (Theory & Lab with SPSS)
- Control and Forecasting Methods (Theory & Lab with SPSS)
- Decision Models II(Theory & Lab with SPSS)
- Marketing: Total Quality Control

## **IV. Panteion University**

- Statistics I
- Statistics II

## **V. “Management of Businesses and Organizations”, Hellenic Open University**

Quantitative Methods

## **VI. School of Pedagogical and Technological Education (ASPETE).**

- Statistics in Counseling and Guidance
- Professional Evaluation & Psychometric Data. Determination of General & Professional Characteristics of the Person.

## **B. Master Courses**

### **I. Master's Program in "Quality Assurance", Hellenic Open University**

- Basic Tools for Quality Control

### **II. Master's Program "Mathematical Modeling in modern Technologies and the Economy", offered jointly by five schools of the National Technical University of Athens (NTUA)**

- Statistical Linear Models

### **III. Master's program "Data driven Computing and decision Making"**

- Workshop in Statistics

### **IV. Master's Program "Computational and Analytical Statistics in Data Science"(MCDA) at the Department of Mathematics of the University of Patras.**

- Analysis of Time Series

### ***Administrative Experience***

- Deputy head of Accounting Department, TEI of Patras (1-9-08 until 31-8-09)
- Head of the Accounting Department for the Sector of Infrastructure Courses (2006-2007, 2007-2008, 2008-2009)
- Participation in a Committee for the evaluation of the Accounting Department
- Participation in the 4<sup>th</sup> year Committee Planning of the Accounting Department
- Participation in the committee for the feeding cards (2008-2009)
- Participation in the Research Committee (ELKE)(TEI of Patras) (2007-2008, 2016-2017 replacement member)
- Head of publishing the study Guides (Accounting Department)
- Participation in a tendering committee for the supply of furniture
- Participation in a Qualifying Exams Committee
- Participation in Electoral Bodies

- Participation in the evaluation committee for the supporting work of PPS project
- Participation in evaluation committee's staff
- Participation in an Evaluation Committee for the approval of the assignment studies following an internal announcement
- Participate in the Committee of the Scientific and Laboratory Partners
- Participation in the ERASMUS committee
- Internship Supervision
- Member of the Committee of Graduate Theses
- Member of the Academic Affairs Committee

### ***Graduate Theses (Indicative)***

1. "Leontiaf's input-output pattern. Chronology. Application to the Greek and European Economy", 2008
2. "Gender and Mathematics. Prominent Female Figures in Mathematics over the centuries", 2008
3. "Applications of Mathematics in Economics", 2008
4. "Total Quality & HI-TECH Enterprises", 2005-2006
5. "Fitting Time Series Model in Financial Data using Box-Jenkins Methodology in order to fit the best model for forecasting", 2005
6. "Estimation prediction for any production unit using regression modes and probability, combined with data from different time points", 2005
7. "Basic Methods of Time Series Analysis", 2005
8. "Implementing a complex tool in a Quality Company (Q.F.D., S.P.C., 6SIGMA)", 2005
9. "Statistical Research Methods and Practice", 2022
10. "Statistical Analysis of Tax Indicator", 2022
11. "Sampling Methods", 2022
12. "Regression Models", 2022

### ***Master Theses (Indicative) (Hellenic Open University)***



1. “Organization & Administration Building Maintenance public Institutions and Reliability Maintenance , 2006
2. “Application of Statistical Methods for Quality Control and Improvement in Salt Processing and Manufacturing Process”,2006
3. “Reliability-Maintenance of a Mechanical Equipment Installation Waste Water”, 2006
4. “Statistical Approach for the Quality Control of Railway structure: Application of the Athens-Thessaloniki section”, 2012
5. “Study of the Insurance Claims using advanced Quality Control Methods”, 2014
6. “Study of Reliability and Maintainability at company equipment” ,2015
7. “Application at Statistical Analysis to improve quality in a photovoltaic panel, production line, thin film technology”,2015
8. “Methods of Statistical Quality Control in the field of Fisheries”, 2015
9. “Statistical Analysis and Quality Control in a cosmetics manufacturing company”, 2016

***MSc Theses (MCDA)(Department of Mathematics, University of Patras)***

1. «Statistical Analysis & Forecasting of Unemployment of Europe using Time Series», G. Douklia, June 2022.
2. “Bitcoin as an investment. Factors affecting it and Forecasting”, E. Plati, August 2022.

***Writing Activity***

- “Probability and Statistics with Minitab”, V. Karioti & C. Caroni, Department of Mathematics, NTUA, Athens 1999, Program EPEAEK: “Theophrastus”
- Teaching Notes in Statistics and Time Series

## ***Research Interests***

- Time Series, Econometrics, Neural Networks
- Control Charts
- Medical Statistics

## ***Research Programs***

• Participation in the research program OP-3.2b Research entitled "Management and organization of universities in the area of productive restructuring" organized by the Panteion University from 1/9/1999 to 31/12/1999. My contribution to this program was the statistical treatment of data and using databases.

• Participation in research project Archimedes: "Development of automated classification images to support the diagnosis in dermatology" organized by the Institute of Communication and Computer Systems (ICCS) of NTUA from 5/2000-10/2000. My contribution to this program was the statistical processing of medical data in particular melanomas, taken from the General Hospital. To carry out this analysis using the method of discriminant analysis, whose results were compared with results obtained using Neural Networks. The computational analysis was performed using the statistical packages SPSS and S-Plus. From this program resulted in a paper entitled "Utilizing Artificial Intelligence for the Characterization of Dermatological Images" presented at the International Conference "Neural Networks and Expert Systems" (Milos, June 2001)

• Participation in the research program Thales: "Analysis of isolated points in statistical data" under the Basic Research Program aid of NTUA from 7/2002-6/2003. The proposal for this program scored 9.30 (out of 10) with positive reviews from critics. My contribution to this program is to develop theoretical models for the presence of isolated points and development programs of statistical applications in Fortran, S-Plus.

• Participation in research project OP: «Home-based Activities Analysis and Response Telecare Systems (Hearts)» from 1/2004-4/2004 organized by the Laboratory of Medical Physics, Medical School, University of Patras. My contribution to this program is the statistical processing of medical data.

• Responsible for the Project "3. Absorption Study of Graduates of the TEI Patras "project" 2.4.2.v. Career Office TEI of Patras-v phase "from 1-1-2008 to 06.30.2008. My contribution to this program was to coordinate the work of all involved in research,

training table with data from graduates of the sample, the selected training interviewers and syntax of the implementation report of the study.

### ***Participation of presenting paper in International Conferences***

1. “Properties of. Observation-Driven Models for Time series of Counts”, Inaugural Euro Conference-Eastern Mediterranean Region organized from International Biometric Society, Athens, Greece, 7-10 January 2001
2. “Likelihood ratio tests for an outlying mean in a set of short time series”, Applied Stochastic Models and Data Analysis organized from Universite de Technologie de Compiegne, France, 12-15 June 2001
3. “Detecting an outlier in a set of time series”, 17<sup>o</sup> Workshop on International Statistical Modelling, Chania, Greece, 8-12 July 2002. This paper won the 3<sup>rd</sup> position in the poster competition of the conference.
4. “Fixed and Random innovative outliers in a set of time series”, Workshop on Computational Management Science, Economics, Finance and Engineering, Limassol, Cyprus, 28-30 March 2003
5. “Detecting an innovative or additive outlier in a set of time series”, 5<sup>th</sup> International Conference on Risk Analysis, Tomar Portugal, 30 May -1 June 2013
6. “Detection of Outlier in Time Series in Count Data”, ITISE 2016, International work conference in Time Series, Granada, 27-29 June 2016.

### ***Participation of presenting paper in Greek Conferences***

1. “Detection of Outliers in Time Series Models of Count Data”, 12<sup>o</sup> Conference in Statistics, « Applications and software development in the Social, Economic & Technological Sciences as well as in the Health Sciences”, Spetses, 15-18 April 1999
2. “Detection of an outlying series in a set of time series”, 13<sup>o</sup> Conference in Statistics, “Statistics – Theory & Applications”, Florina, 3-6 May 2000
3. “Simple Detection of an outlying series in a set of time series, 14<sup>o</sup> Conference in Statistics, “Statistics – Theory & Applications”, Skiathos, 18-21 April 2001

4. “Properties of Observation driven regression models for time series of count data”, 15<sup>o</sup> Conference in Statistics, “Contribution of Statistics to the Development of the Region”, Ioannina, 8-11 May 2002
5. “Detection of an outlier in a set of time series”, 16<sup>o</sup> Conference in Statistics, Kavala, 30 April – 3 May 2003
6. “Quality Tools”, Conference of the Career Office on "The Need for Quality. The Awareness of Human Resources for the Success of Quality Systems”, Patras 22 May 2007

### ***Presentation of paper at International Conferences***

1. “Utilizing Artificial Intelligence for the Characterization of Dermatological Images”, “Neural Networks and Expert Systems”, Milos Island, Greece, 20-22 June 2001
2. I. Poulaki, V. Karioti and C.Tsoulogianni (2022), “Women in Tourism Industry: From Glass ceiling effect to #MeToo Movement”, 9<sup>th</sup> International Conference “Tourism, travel and Hospitality in a Smart and Sustainable World”

### ***Attendance of International Conferences***

1. “Workshop on Advanced Analysis Methods in Epidemiological Time Series with Applications in Air Pollution Epidemiology”, Linked to the APHEA Project / Environment and Climate Programme / European Commission, Santorini, Greece, 1-7 November 1998
2. “Recent advances in Probability and Statistics”, Athens, 3-5 July 1999

### ***Publications***

1. V. Karioti & c. Caroni (2002), “Detecting outlying series in sets of short time series”, *Computational Statistics & Data Analysis*, **39**, 351-364
2. V. Karioti & C. Caroni, (2004) “Simple Detection of outlying short time series”, *Statistical Papers*, **45**, 267-278
3. C. Caroni & V. Karioti, (2004) “Detecting an Innovative Outlier in a set of Time series”, *Computational Statistics & Data Analysis*, **46**, 561-570

4. V. Karioti & c. Caroni, (2006)“Properties of the GAR(1) Model for Time Series of Counts”, *Journal of Modern Applied Statistical Methods*, **5**,140-151
5. V. Karioti (2010), “Applied Time Series, Two Different Approaches: Box-Jenkins- Outliers in Time series Data», *Archives of Economic History*, **XXII**, 73-104
6. V. Karioti & C. Caroni (2001), “Likelihood ratio tests for an outlying mean in a set of short time series”, *ASMDA Proceedings of 10<sup>th</sup> International Symposium on Applied stochastic Models and Data Analysis*, **2**, 605-609
7. V. Karioti & C. Caroni (2002), “Detecting an outlier in a set of time series”, *Proceedings of 17<sup>th</sup> Workshop on International Statistical Modelling*, 371-374
8. E. Magliogiannis, C. Caroni, S. Pavlopoulos, V. Karioti (2001), “Utilizing Artificial Intelligence for the Characterization of Dermatological Images”, *Proceedings of the Fourth International Conference on Neural Networks and Expert Systems in Medicine and Healthcare*, 362-368
9. S. Kotsiantis, D. Kanellopoulos, V. Karioti & V. Tampakas (2009), “On implementing an ontology-based portal for intelligent bankruptcy prediction”, *In International Conference on Information and Financial Engineering (ICIFE 2009)*, 108-112
10. S. Kotsiantis, D. Kanellopoulos, V. Karioti & V. Tampakas (2009), “An ontology-based portal for credit risk analysis”, *IN 2009 International conference on Artificial Intelligence and Neural Networks (ICAINN 2009)*, 165-169
11. V. Karioti (2015), “Detecting an IO/AO outlier in a set of time series”, *Theory and Practice of Risk Assessment: ICRA 5, Tomar, Portugal, 2013*, 377-384
12. V. Karioti and P. Economou (2017), “Detection of Outlier in Time Series Count Data”, *Advances in Time Series Analysis and Forecasting, Springer Series*
13. I. Poulaki, V. Karioti and C.Tsoulogianni (2022), “Women in Tourism Industry: From Glass ceiling effect to #MeToo Movement”, 9<sup>th</sup> International Conference “Tourism, travel and Hospitality in a Smart and Sustainable World”.(υπό δημοσίευση).

### ***Publications in Greek Conferences***

14. V. Karioti & C. Caroni (1999), "Detection of Outliers in Time Series Models of Count Data", Proceedings of 12<sup>o</sup> Conference in Statistics organized by the Greek Statistical Institute , 208-217
15. V. Karioti & C. Caroni (2000), "Detection of an outlying series in a set of time series", Proceedings of 13<sup>o</sup> Conference in Statistics organized by the Greek Statistical Institute, 239-248
16. V. Karioti & C. Caroni (2001), "Simple Detection of an outlying series in a set of time series, 14<sup>o</sup> Conference in Statistics organized by the Greek Statistical Institute, 195-202
17. V. Karioti & C. Caroni (2002), "Properties of Observation driven regression models for time series of count data", 15<sup>o</sup> Conference in Statistics organized by the Greek Statistical Institute,330-338
18. V. Karioti & C. Caroni (2003), "Detection of an outlier in a set of time series", 16<sup>o</sup> Conference in Statistics organized by the Greek Statistical Institute

### ***Citations***

- The paper "Utilizing Artificial Intelligence for the Characterization of Dermatological Images" has 22 references.
- The paper "Detecting an Innovative Outlier in a set of Time series" has 24 references.
- The paper "Detecting outlying series in sets of short time series" has 10 references.
- The paper "Simple Detection of outlying short time series" has 6 references.
- The paper "Properties of the GAR(1) Model for Time Series of Counts" has 3 references.
- The paper "Detecting an IO/AO outlier in a set of time series" has 4 references.
- The paper "On implementing an ontology-based portal for intelligent bankruptcy prediction" has 2 references.

- The paper “An ontology-based portal for credit risk analysis” has 17 references.

### ***Judges***

- In the scientific journal: Communications in Statistics-Simulation and Computation

### ***Awards***

The IKY awarded me scholarships for my performance throughout the course of my studies for obtaining the first degree. Specifically, during the first year the average performance was my third in Section 7, during the second, third and fourth year the average was 8.4, 8.8 and 9.5 respectively in the first section. The overall degree grade was the highest in my section.

The Empirikion Foundation granted me a scholarship for my studies abroad. The extent of my MSc was the highest in my section.

I was granted a scholarship From the Special Account of the NTUA for the preparation of my thesis.

### ***Occupations***

- Responsible for training seminar for members of the Faculty of Applied Mathematics and Physical Sciences, NTUA for electronic access to journals

### ***Visits***

- ✓ 12-17/3/2012 University of Vaasa, Finland, within Erasmus Teaching Mobility
- ✓ 11-15/6/2012 Università Degli Studi di Firenze, within Erasmus Teaching Mobility
- ✓ 10-14/12/2012 University of Marmara, Istanbul, within Erasmus Teaching Mobility

### ***Foreign Languages***

*English:* One year attendance of the MSc course in Umist. First Certificate in English (F.C.E) of Cambridge University.

*German:* Grundstufe

*Spanish:* Moderate knowledge

### ***Computer Skills:***

#### ***Programming Languages and Statistical Packages***

Fortran, Splus, SPSS, Minitab, Matlab, Glim, SAS, Excel, Access, Windows, Word, Internet, Visual Basic, SQL

### ***Seminars:***

<i>Title:</i>	Online Teacher Training Seminar
<i>Organizer:</i>	Hellenic Open University (4/4/2016-11/6/2016)
<i>Seminar Objects:</i>	“Information and Communication Technologies of Hellenic Open University”
<i>Duration:</i>	13 hours

### ***Various***

- Member of the Greek Statistical Institute
- Founding Member of the Institute of Public Health and Social Policy (2015)  
(<http://www.thebest.gr/news/index/viewStory/320627>)

### ***Profile in scientific social networks***

<https://scholar.google.com/citations?user=SILImp0AAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=6506229207>



