



Efi Antoniou
Senior Data Scientist
Banking Industry



efiantoniou@outlook.com
Nicosia, Cyprus

Education

Doctor of Philosophy in Statistics, August, 2004
Department of Statistics, The Pennsylvania State University, PA, USA
Dissertation Title: Nonparametric Methods for Missing Data.

Masters of Science in Statistics, December 2001
Department of Statistics, The Pennsylvania State University, PA, USA
Dissertation Title: Approximating the Distribution of the Usual F – Statistic in Non-Normal Situations.

Bachelors of Science in Mathematics and Statistics, June 1999
Department of Mathematics and Statistics, University of Cyprus, Nicosia, Cyprus

Professional Experience

Hellenic Bank

- Nov 2018 - present* *Supervisor, Data and Analytics department, Hellenic Bank, Cyprus.* Credit Scoring; customer management analysis; responsible for automatic decision engine; design and implementation of automated processes for customer management; portfolio monitoring; data management.
- Jun 2015 – Oct 2018* *Supervisor, Quantitative Risk Analysis department, Hellenic Bank, Cyprus.* Credit Scoring; customer management analysis; automatic decision engine setup; impairment; collection models; data management and analysis; portfolio monitoring; credit systems maintenance and enhancement; database design and structure.
- Jul 2014 – May, 2015* *Officer, Data Analysis, Management and Quality department, Hellenic Bank, Cyprus.* Data management and analysis; preparation of portfolio monitoring and regulatory reports; credit systems maintenance and enhancement; database design and structure.
- Sep 2014 – Jun 2014* *Officer, Credit Systems, Organization & Methods and Re-engineering department, Hellenic Bank, Cyprus.* Development and validation of credit risk models; data management and analysis; preparation of portfolio monitoring reports; credit systems maintenance and enhancement; database structure.
- Feb 2009 – Sep 2013* *Officer, Credit Systems and Processes department, Hellenic Bank, Cyprus.* Credit risk models; monitoring and validation of existing credit scoring models' performance; data management and analysis; preparation of portfolio monitoring reports. Responsible for the implementation of the bank's Retail Credit Scorecards and Credit Policy in the bank's systems.

University of Cyprus

Jan 2012 – Present

Instructor at the Public and Business Administration Department and the Department of Accounting and Finance of the University of Cyprus. Teaching of Statistical and Software courses in the graduate and undergraduate program:

LOX 517: Applied Credit Risk Assessment (2017 onwards)

LOX 523: Advance Quantitative Methods in Management (2012 onwards)

PBA 346: Quantitative Methods in Management II (2012 – 2017)

PBA 447: Quantitative Methods in Management III (2013 – 2015)

LOX 516: Use of Software in Finance (2014 SPSS, 2015 – 2016 R).

PBA 132: Information Systems in Management – Labs (2012 – 2013)

Apr 11 – April 16

Risk Management workshops. Offering a one day workshop in Credit Risk Management for Masters students of the Department of Public & Business Administration, at the University of Cyprus (April 2011, April 2012, April 2013, Apr 2014).

Frederic University

Sep 08 – May 09

Lecturer at Frederick University, Nicosia, Cyprus. Teaching of Statistics and Quantitative Methods, Linear Algebra with MATLAB, Calculus and Analytic Geometry.

Sep 04 - Aug 05

Lecturer at Frederick Institute of Technology, Nicosia, Cyprus. Teaching of Statistics and Quantitative Methods, Linear Algebra with MATLAB, Calculus and Analytic Geometry and Business Mathematics.

Rhodian Pedia Private High School

Sep 05 - Jun 08

Mathematics Teacher at Rhodian Pedia Private High School, Rhodes, Greece.

The Pennsylvania State University

Aug 02 - Jun 04

Research Assistant at The Pennsylvania State University.

Work in the area of nonparametric statistical methods for missing data and analysis of covariance.

Jan 03 - Dec 03

Instructor at The Pennsylvania State University. Teaching of Introduction to Biostatistics, and of Introduction to Statistics. Duties also included a heavy component of lab activities.

Jan 01 - Jul 02

Graduate Consultant at The Pennsylvania State University.

Consulted on research projects with graduate students and faculty. Duties included data analysis in SAS, SPSS and Minitab and writing of consultation reports. Also, held drop-in consulting hours for graduate students and faculty from various departments on campus.

Aug 99 - Dec 00

Teaching Assistant at The Pennsylvania State University.

Conducted recitations and graded homework for stochastic modeling, applied statistics and introductory statistics courses.

Papers and Publications

C. Minas, D. Jacopson, E. Antoniou, C. McMullan (2013). Welfare Regime, Welfare Pillar and Southern Europe. *Journal of European Social Policy*, (JESO – 13 – 0034.R2).

M.G. Akritas, E. Antoniou and J. Kuha (2006). Analysis of Data Missing Conditionally at Random via Nonparametric Imputation. *Journal of the American Statistical Association*, 101, 1513 – 1526.

Computer Skills

Programming Languages and Statistical/Data-analytics Packages: R, SAS Enterprise Guide & Miner, SPSS, MINITAB, Cognos, LaTeX.

Algorithms: Extensive programming in R for data simulations in research, modeling, data management/preparation and automated reporting. Moderate programming experience in Basic SAS and SQL.