

# Dr. Pantelis Z. Lappas

## PERSONAL INFORMATION

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Desk Address: 33 Lefkados, Office 204, 2<sup>nd</sup> Floor, GR-11362, Athens, Greece  
Date of Birth: 12<sup>th</sup> April 1985  
Military Service: Fulfilled 2010  
Marital Status: Married  
Nationality: Greek  
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## RESEARCH & PROFESSIONAL INTERESTS

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- Supply Chain Optimization: Inventory Control and Vehicle Routing
- Stochastic Modeling: Queuing Theory and Game Theory
- Simulation, Processing, Numerical Analysis and Evolutionary Programming
- Multi-Criteria Decision Making and Risk Management
- Information Systems and Applications Development

## EDUCATIONAL BACKGROUND

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09/2010 – 05/2017 **Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**  
**Management Science Laboratory**  
*PhD in Operations Research*  
*Research areas of Supply Chain Optimization and Queuing Theory*

09/2011 – 09/2013 **Athens University of Economics and Business**  
**School of Information Sciences and Technology**  
**Department of Statistics**  
*MSc in Statistics*  
*Specialization in Quantitative Methods in Decision Making*  
**Grade: 9.09/10 (Excellent)**

10/2008 – 12/2009 **Athens University of Economics and Business**  
**School of Information Sciences and Technology**  
**Department of Informatics**  
*MSc in Information Systems*  
*Specialization in Business Information Systems*  
**Grade: 7.67/10 (Very Good)**

09/2003 – 11/2007 **Technological Educational Institute of Athens**  
**School of Technological Applications**  
**Department of Informatics Engineering**  
*Specialization in Information Systems and Applications*  
**Grade: 7.59/10 (Very Good)**

09/2000 – 06/2003 **Unified Upper Secondary School of Mesovounia**  
**Kefalonia, Greece**  
**Grade: 17.9/20 (Very Good)**

## CERTIFICATIONS

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10/2010 – 06/2011  
**School of Pedagogical and Technological Education**  
**General Department of Education**  
**1-Year Pedagogical Training Program**  
*Pedagogical and Didactic Competence*  
**Grade: 9.50/10 (Excellent)**

## TEACHING EXPERIENCE

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11/2015 – 12/2016  
**Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**  
**MSc in Management Science and Technology**

- *Primary lab instructor in “Managerial Decision Making”*

10/2014 – 12/2016  
**Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**  
**Erasmus Exchange Program**

- *Primary lab instructor in “Modern Enterprise Information Systems” using Microsoft Dynamics NAV and Expert Choice for Multi-criteria Decision Analysis*

03/2015 – 06/2016  
**Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**  
**MSc in Business Analytics**

- *Primary lab instructor in “Enterprise Information Systems” using Microsoft Dynamics NAV and software packages for Multi-criteria Decision Making, Supply Chain Optimization and Business Process Reengineering*

10/2015 – 01/2016  
**Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**

- *Primary lab instructor in “Enterprise Resource Planning (ERP) Systems”*

10/2012 – 01/2016  
**Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**

- *Primary lab instructor in “Mathematics for Decision Making I” (winter semester) and “Mathematics for Decision Making II” using MATLAB (spring semester)*

03/2014 – 06/2014  
**Athens University of Economics and Business**  
**Vocational Training Center**  
**Specialization Program in “Big Data and Business Analytics”**

- *Primary lab instructor in “Enterprise Resource Planning” using Microsoft Dynamics NAV*

- 03/2012 **Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**  
**International MBA Program**
- *Seminar “How to Create your Own Web Site”*
- 01/2011 – 04/2011 **School of Pedagogical and Technological Education**  
**General Department of Education**  
**1-Year Pedagogical Training Program**
- *Relational Algebra I and II*
  - *Algorithms I and II*
  - *Database I and II*

## **PROFESSIONAL EXPERIENCE**

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- 02/2016 – present **Relational SA – The Financial Solutions Company**
- Business Analyst
- 10/2010 – 02/2016 **Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**  
**International MBA Program**
- Duties: web and domain administration, technical support and equipment audits, CRM system analysis, design and administration
- Chief Knowledge Officer, Management Science Laboratory (MSL)
- 05/2013 – 07/2014 **Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**
- Duties: invigilation allocation for the undergraduate exam schedule
- 12/2013 – 01/2014 **Hellenic Mathematical Society**
- Duties: design and implementation of the ASTROLAVOS Website (<http://www.msl.aueb.gr/astrolavos>) – A Scientific Journal of the Hellenic Mathematical Society
- 09/2013 – 10/2013 **Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**  
**International MBA Program**
- Duties: design and implementation of the iMBA Lab’s Website (<http://www.aueb.gr/users/imbabal/>)
- 02/2013 – 05/2013 **Athens University of Economics and Business**  
**School of Business**  
**Department of Management Science and Technology**  
**Management Science Laboratory (MSL)**
- Duties: design and implementation of the MSL’s Website (<http://www.msl.aueb.gr>)

- 06/2010 – 08/2010  
**Hellenic Army**  
**Higher Military Command of Interior & Islands**  
**Office of Engineer Directorate**  
**Military Service**
- Duties: implementation of projects using M/S ACCESS and M/S EXCEL, techno-economic studies
- 05/2007 – 11/2007  
**National Bank of Greece**  
**Directorate of Risk Management**  
**Practical Training**
- Duties: credit assessment system update, implementation of projects using M/S ACCESS and M/S EXCEL, implementation of application using VISUAL BASIC related to solvency assessment for insurance companies

## **RESEARCH PROJECTS**

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- 10/2015 – 02/2016  
**Region of Western Greece**  
**Project “Value Chain Design, Evaluation and Mapping”**
- Duties: analysis, design and implementation of an information system for capturing the value chain of products and services
- 05/2015 – 02/2016  
**Region of Western Greece**  
**Project “Integrated Intervention in Fire-stricken Areas”**
- Duties: implementation of multicriteria decision analysis for optimal allocation of the limited financial resources in the municipalities of the Region of Western Greece in order to maximize the social benefit
- 06/2014 – 12/2015  
**Athens University of Economics and Business**  
**AUEB Research Center**  
**Project “Inventory Routing”**
- Duties: optimization algorithms for the inventory routing problem
- 06/2014 – 10/2015  
**Athens University of Economics and Business**  
**AUEB Research Center**  
**Project “AUEB Digital Services”**
- Duties: analysis and design of information system
- 06/2014 – 12/2014  
**Centre of Planning and Economic Research**  
**Project “Market Mapping – The Case of Greece”**
- Duties: analysis and design of information system, implementation of web application, multi-criteria decision analysis and project management
- Coordinator of the paperwork “Data Migration Requirements for the Proposed Information System”

01/2010 – 05/2010

**Athens University of Economics and Business**  
**AUEB Research Center**  
**Project “Out-of-Self Prevention”**  
Duties: retail store product documentation

03/2009 – 05/2009

**Athens University of Economics and Business**  
**AUEB Research Center**  
**Project “GONEIS.GR”**

Duties: education of secondary-level students’ parents about issues related to the safe use of the Web and Information and Communication Technologies (ICT)

## **PROFESSIONAL MEMBERSHIPS**

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- Member of the Hellenic Operational Research Society – HELORS (since 2014)
- Member of the Hellenic Mathematical Society – HMS (since 2013)
- Member of the Editorial Board of ASTROLAVOS – Scientific Journal of HMS (since 2013)

## **PUBLICATIONS**

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### ***A. Thesis and Dissertations***

1. Lappas, P. 2017. *Models and Solution Algorithms for Inventory Routing Problems*. PhD’s Thesis, Department of Management Science and Technology, School of Business, Athens University of Economics and Business, Greece (Grade: Distinction).
2. Lappas, P., 2013. *Numerical Methods and Optimization: A MATLAB Approach*. Master’s Thesis, Department of Statistics, School of Information Sciences and Technology, Athens University of Economics and Business, Greece (Grade: Distinction).
3. Lappas, P., 2011. *Research Methodology and Evaluation*. Thesis, General Department of Education, School of Pedagogical and Technological Education, Greece (Grade: 10/10).
4. Lappas, P., 2010. *Key Success Factors and Risk Management in Project Management*. Master’s Thesis, Department of Informatics, School of Information Sciences and Technology, Athens University of Economics and Business, Greece (Grade: Distinction).
5. Lappas, P., 2007. *Organization of Conference and Implementation of Supportive Application using a CMS Tool*. Diploma Thesis, Department of Informatics Engineering, School of Technological Applications, Technological Educational Institute of Athens, Greece (Grade: 10/10).

### ***B. Books, Chapters and Edited Volumes***

1. Lappas, P. and Kiohos, A., 2014. *Operational Risk: Theory, Research Perspectives and a Proposed Research Approach*. University of Macedonia Press, Thessaloniki.

### ***C. Scientific Journals***

1. Lappas, P. and Kritikos, E., 2013. WebQuest Educational Scenario for the Numerical Solution of Equations using Pseudocode, MATLAB, CMAP and Rubrics. *ASTROLAVOS – Journal of New Technologies of the Hellenic Mathematical Society*, Issue 19, pp. 59-76.

### ***D. Scientific Conferences***

1. Lappas, P., Kritikos, E., Ioannou, G, Burnetas, A. 2017. A Combination of Monte-Carlo simulation and a VNS meta-heuristic algorithm for solving the Stochastic Inventory Routing

- Problem with Time Windows. *ODS 2017 – International Conference on Optimization and Decision Science*, Sorrento, Italy.
2. Lappas, P., Kritikos, E. and Ioannou, G. 2015. Metaheuristic Algorithms for Routing Problems: From the Travelling Salesman Problem to the Inventory Routing Problem. *MASSEE International Congress on Mathematics*, Athens, Greece, September 22-26.
  3. Lappas, P. and Kritikos, E. 2015. The Supply Chain Network Design Problem: Quantitative Approaches to managing Operational and Disruption Risks. *MASSEE International Congress on Mathematics*, Athens, Greece, September 22-26.
  4. Lappas, P., Kritikos, E. and Ioannou, G. 2015. Classic Metaheuristics and Evolutionary Optimization Algorithms for Routing Problems: A Computational Study. *4<sup>th</sup> International Eurasian Conference on Mathematical Sciences and Applications*, Athens, Greece, August 31 – September 3.
  5. Lappas, P., Kritikos, E. and Ioannou, G. 2015. A Genetic Algorithm for the Inventory Routing Problem with Time Windows. *27<sup>th</sup> European Conference on Operational Research*, Glasgow, Scotland, July 12-15.
  6. Lappas, P. and Kritikos, E. 2015. Computer-based Cognitive Tools in Mathematics and Operations Research: The Process of Scientific Inquiry. *ERPA International Congresses on Education*, Athens, Greece, June 4-7.
  7. Lappas, P., Kritikos, E., Chaniotaki, C.Z., Lardopoulou, C.T. and Gotsi, A. 2015. An Educational Scenario in the context of Scientific Process: Numerical Solution of Equations and Systems of Equations using Cognitive Tools. *12<sup>th</sup> Management Science and Technology Student Conference*, Athens, Greece, May 14.
  8. Lappas, P. 2015. Prioritizing Projects to enhance Development Impact: Multi-criteria Decision Analysis Approach. *4<sup>th</sup> Annual Conference of the Centre of Planning and Economic Research*, Kyllini, Greece, May 8-10.
  9. Lappas, P. 2015. Mathematical Models and Exact Solutions for the Inventory Routing Problem. *Centre of Planning and Economic Research*, Athens, Greece, January 16.
  10. Lappas, P., Kritikos, E., Ioannou, G. and Burnetas, A. 2014. The Inventory Routing Problem. *Proceedings of the 31<sup>st</sup> Conference of the Hellenic Mathematical Society*, Veria, Greece, November 7-9, pp. 583-595.
  11. Lappas, P. and Kritikos, E., 2013. A Didactic Model for the course of Applied Numerical Analysis using MATLAB, CMAP and WebQuest. *Proceedings of the 30<sup>th</sup> Conference of the Hellenic Mathematical Society*, Karditsa, Greece, November 8-10, pp. 579-591.

#### ***E. Lecture Notes and Case Studies***

1. Lappas, P. 2015. *Manufacturing Processes using Microsoft Dynamics NAV*. Lecture notes, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
2. Lappas, P. 2015. *The Analytic Hierarchy Process*. Presentation and Lecture Notes, MSc in Management Science and Technology, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
3. Lappas, P. 2015. *A Genetic Algorithm for solving Travelling Salesman Problem*. Presentation, Interdepartmental Program of Postgraduate Studies in Business Administration (MBA), Departments of Business Administration and Marketing & Communication, School of Business, Athens University of Economics and Business.
4. Lappas, P. 2015. *Enterprise Information Systems: Supply Chain Management Overview, Maximizing your ERP System, Optimization Models for Production Planning and Operations Management, Business Process Reengineering, Multi-criteria Decision Making and Managing your Supply Chain using Microsoft Dynamics NAV*. Lecture notes, MSc in Business Analytics, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
5. Lappas, P., 2014. *Modern Enterprise Information Systems using Microsoft Dynamics NAV and Expert Choice for Multi-Criteria Decision Analysis*. Lecture notes, Erasmus Exchange Program, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
6. Lappas, P., 2014. *Enterprise Resource Planning using Microsoft Dynamics NAV*. Lecture notes, Vocational Training Center, Athens University of Economics and Business.

7. Lappas, P., 2014. *Multiple Choice Questions for Game Theory*. Lecture notes, Hellenic Open University.
8. Lappas, P., 2013. *Basic Concepts of Numerical Analysis*. Lecture notes, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
9. Lappas, P., 2013. *Numerical Solution of Linear and Nonlinear Algebraic Equations*. Lecture notes, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
10. Lappas, P., 2013. *Mathematics for Decision Making using MATLAB II*. Lecture notes, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
11. Lappas, P., 2013. *Business Furniture S.A.: Financial Planning Strategy*. Case study, Interdepartmental Program of Postgraduate Studies in Business Administration (MBA), Departments of Business Administration and Marketing & Communication, School of Business, Athens University of Economics and Business.
12. Lappas, P., 2012. *Mathematics for Decision Making using MATLAB I*. Lecture notes, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
13. Lappas, P., 2012. *How to Create your Own Web Site*. Lecture notes, International MBA Program, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.
14. Lappas, P., 2011. *Strategic Decision Making at Pfizer: Gaining Market Share in the Genetic Drug Industry through Acquisitions*. Case Study, International MBA Program, Department of Management Science and Technology, School of Business, Athens University of Economics and Business.

## **ADDITIONAL EDUCATIONAL EXPERIENCE**

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### **A. Seminars**

- **03/2014:** Robust Optimization and Game-Theoretic Learning, Department of Mathematics, School of Science, National and Kapodistrian University of Athens, Athens, Greece.
- **07/2013:** Stochastic Finance, Department of Statistics, School of Information Sciences and Technology, Athens University of Economics and Business, Athens, Greece.
- **05/2013:** Stochastic Dynamic Programming, Department of Statistics, School of Information Sciences and Technology, Athens University of Economics and Business, Athens, Greece.
- **04/2011:** SAP01 SAP Overview, SAP Hellas, Athens, Greece.
- **03/2008:** Teamwork and Emotion Management, Career Office of Technological Educational Institute of Athens, Athens, Greece.

### **B. Conferences**

- **09/2015:** MASSE International Congress on Mathematics, Hellenic Mathematical Society, Athens, Greece.
- **08-09/2015:** 4<sup>th</sup> International Eurasian Conference on Mathematical Sciences and Applications, Sakarya University, Kocaeli University, Bilecik Seyh Edebali University, Turkic World Mathematical Society, University of Hassan II, University of Mohammed V and International Balkan University, Athens, Greece.
- **07/2015:** 27<sup>th</sup> European Conference on Operational Research, EURO: The Association of European Operational Research Societies, Glasgow, Scotland.
- **06/2015:** ERPA International Congresses on Education, Educational Researches and Publications Association (ERPA), Athens, Greece.
- **05/2015:** Recent Trends in Management and New Entrepreneurship Perspectives, Department of Management Science and Technology, School of Business, Athens University of Economics and Business, Athens, Greece.

- **05/2015:** Recent Issues in Greek Economy, Analytical Tools, Planning and Scheduling Practices, Centre of Planning and Economic Research, Kyllini, Greece.
- **11/2014:** Challenges and Prospects in Mathematics Education and Research in the Information Age, Hellenic Mathematical Society, Veria, Greece.
- **11/2013:** Mathematics in Education, Technology and Society, Hellenic Mathematical Society, Karditsa, Greece.
- **05/2013:** Economy and Enterprises, Scholars' Association, Onassis Foundation, Athens, Greece.
- **05/2013:** Statistics in Actuarial Science, Finance and Risk Management, Greek Statistical Institute, University of Piraeus, Piraeus, Greece.
- **06/2011:** Leadership and Management in a Changing World: Lessons from Ancient East and West Philosophy, Athens University of Economics and Business, Beijing University of International Business and Economics, Athens, Greece.
- **11/2010:** Enterprise Management: Trends and Challenges, Department of Management Science and Technology, School of Business, Athens University of Economics and Business, Athens, Greece.
- **06/2010:** Telecoms Strategies – Digital Cities, Special Secretariat for Digital Planning of Ministry of Economy, Competitiveness and Shipping, Ministry of Interior Decentralization and E-government, Special Secretariat for Administrative Reform of Ministry of Infrastructure, Transport and Networks, General Secretariat of Communications, Athens, Greece.
- **05/2010:** E-Skills Week 2010 Conference, Federation of Hellenic Information Technology and Communications Enterprises, Athens, Greece.
- **01/2010:** Sustainable School: Present and Future, Hellenic Society for the Protection of the Environment and the Cultural Heritage, National and Kapodistrian University of Athens, Agricultural University of Athens, Athens, Greece.
- **01/2010:** Success Factors in Construction Project Management, Technical Chamber of Greece, Greek Civil Engineers, ASCE Hellenic Group and PMI Greece Chapter, Athens, Greece.
- **12/2009:** Training of Teachers of Secondary Level Technical and Vocational Education in Greece, School of Pedagogical and Technological Education, Maroussi, Greece.
- **11/2009:** Presentation of Fiber Optic Technology and Products, Vertical Communications, Athens, Greece.

### ***C. Meetings***

- **12/2007:** The Present and Future of E-Business, Educational Forum, Athens, Greece.
- **12/2007:** E-Learning – Mobile Development: How to Develop Applications for Mobiles with Microsoft Visual Studio .NET, Educational Forum, Athens, Greece.
- **12/2007:** Renewable Energy: Modern Energy Saving Systems, Educational Forum, Athens, Greece.
- **11/2004:** Advanced Industrial Automation Applications, Department of Electronics, School of Technological Applications, Technological Educational Institute of Athens, Athens, Greece.
- **11/2003:** E-government: Theoretical Framework and Best Practices, Educational Forum, Athens, Greece.

## **FOREIGN LANGUAGES**

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- Greek, Native Speaker
- English, Fluent Knowledge

## **OTHER QUALIFICATIONS**

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- Computer Literacy: Microsoft's Operating Systems (Windows 9x/2000/XP/Vista/7/8/10/server ed.), LINUX's Operating System, UNIX's Operating System
- M/S Office (Access, Excel, Outlook, Power Point, Word)
- Apache Open Office (Writer, Calc, Impress, Draw, Math, Base)



- M/S Office Visio, M/S Project
- M/S Dynamics NAV
- Object Oriented Programming Languages: C++, JAVA, Ruby
- Structured Programming Languages: C, PASCAL
- Visual Programming Languages: VISUAL BASIC
- Procedural Programming Languages: FORTRAN
- Functional Programming Languages: LISP
- Query Languages: SQL
- Database Systems: MySQL, Microsoft SQL Server, Oracle
- Unified Modeling Language (UML): StarUML, Rational Rose
- Statistical Computing and Graphics: R
- Symbolic Mathematical Computation Program: Mathematica
- Software Packages for Computational Mathematics: MATLAB, GNU Octave
- Statistical Software Packages: MINITAB, SPSS, STATA
- Software Packages for Multi-criteria Decision Analysis: Expert Choice, Transparent Choice, PriEsT
- Simulation Software Packages: ARENA, YASAI, @Risk
- Software Packages for Decision Trees: Precision Tree, Simple Decision Tree
- Mathematical Programming Languages: MPL (with CPLEX), AMPL (with CPLEX)
- Document Preparation System for High-quality Typesetting: LaTeX
- Markup Language: HTML
- JavaScript Object Notation: JSON
- Scripting Language: PHP
- Website Design Software Packages: Web Page Maker, Joomla CMS
- Customer Relationship Management System (CRM)
- Project Management Body of Knowledge of PMI (PMBOK)
- Business Process Model and Notation (BPMN)
- Driving License for car and motorbike

## **CONFERENCE / WORKSHOPS ORGANIZING COMMITTEES**

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- Member of Organizing Committee, *33<sup>rd</sup> Conference of the Hellenic Mathematical Society* (Chania, Greece, 2016)
- Member of Organizing Committee, *32<sup>nd</sup> Conference of the Hellenic Mathematical Society* (Kastoria, Greece, 2015)
- Chair of the session “Integrated Logistics”, *27<sup>th</sup> European Conference on Operational Research* (Glasgow, Scotland, 2015)
- Chair of the session “Quantitative Methods”, *12<sup>th</sup> Student Conference of the Department of Management Science and Technology* (Athens, Greece, 2015)
- Member of Organizing Committee, *31<sup>st</sup> Conference of the Hellenic Mathematical Society* (Veria, Greece, 2014)
- Member of Organizing Committee, *30<sup>th</sup> Conference on Mathematics in Education, Technology and Society* (Hellenic Mathematical Society, Karditsa, Greece, 2013)

## **SCHOLARSHIPS AND AWARDS**

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- **01/2015:** Award for the paper “Mathematical Models and Exact Solutions for the Inventory Routing Problem” based on PhD thesis from the Centre of Planning and Economic Research
- **09/2013:** Excellence Award and Distinction (Grade: 9.09/10), MSc in Statistics with specialization in Quantitative Methods in Decision Making
- **09/2013:** 1<sup>st</sup> in Class, MSc in Statistics with specialization in Quantitative Methods in Decision Making
- **12/2008:** BSc Scholarship for the Academic Year 2006-2007 from the Greek State Scholarships Foundation
- **05/2008:** Award for the BSc Thesis (Grade:10/10), BSc in Informatics Engineering with specialization in Information Systems and Applications

- **11/2007:** 1<sup>st</sup> among the accepted in the Department of Informatics Engineering of Technological and Educational Institute of Athens (2003) / 1<sup>st</sup> in Class and 8<sup>th</sup> among 77 graduates in graduation of 2007
- **10/2003:** Progress Award and Distinction in the 3<sup>rd</sup> Class of Unified Upper Secondary School
- **10/2002:** Progress Award and Distinction in the 2<sup>nd</sup> Class of Unified Upper Secondary School