Stylianos XANTHOPOULOS

Personal Details

Date of Birth: 10 - 2 - 1963
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PROFESSIONAL EXPERIENCE

University of the Aegean ***(2004 –)***
Department of Statistics and Actuarial-Financial Mathematics *(2004-)*

- Positions held
  - Associate Professor *(2016 -)*
  - Tenured Assistant Professor *(2012 – 2016)*
  - Assistant Professor *(2008 – 2012)*
  - Adjunct Lecturer (ΠΔ407) *(2004 – 2008)*

- Teaching
  - Undergraduate Courses:
    1. Financial Mathematics I, II, III
    2. Risk Measurement and Management
    3. Introduction to Risk Management in Banking
    4. Elements of International Financial Markets
    5. Introduction to Probabilities and Combinatorics
    6. Probabilities I
    7. Applied Linear Algebra
  - Postgraduate Courses
    1. Risk management
    2. Financial Mathematics
    3. Derivatives
    4. Interest rates - Bonds
    5. Financial Markets and Financial Products
    6. Risk management and Valuation of Derivatives (at the Department of Economics of the University of Athens)
    7. Stochastic Mathematics II (at the Department of Economics of the University of Athens)

  - Supervision of Completed PhDs
    1. Anastasios Petropoulos, *Hidden Markov Models and their Applications in Finance* (University of the Aegean, 2015).
  - Participation in advisory committees of completed PhDs
    1. Ifigeneia Efthimiou, *Design and analysis of experiments,* (University of the Aegean, 2015)
  - Participation in examining committees of completed PhDs
    1. Ioannis Stamatiou, *Numerical Analysis of Stochastic Differential Equations with Applications in Financial Mathematics and Molecular Dynamics* (University of the Aegean, 2016)
    2. George Papagiannis, *Robust Decision Making and Convex Risk Measures Computation* (Athens University of Economics and Business, 2015)
    3. Ioannis Baltas, *Stochastic Optimal Control and Stochastic Differential Games: Applications in Insurance* (Athens University of Economics and Business, 2014)
    4. Evangelia Papanagiotou, *A Study of Efficiency in Capital Markets. Application to the Athens Exchange* (University of the Aegean, 2011)

- Administrative Work
  1. Head of the Department of Statistics and Actuarial-Financial Mathematics (2018-2020)
  2. Associate Director of the Postgraduate Program "Statistics and Actuarial-Financial Mathematics" (2018-2020)
  3. Member of the Economic Council of the University of the Aegean (School of Sciences representative) (2018-)

4. Member of the supervising committee of the Postgraduate Program «Applied Economics and Finance» (Run by our Department and the Department of Economics of the University of Athens) (2018-)
5. Director of the Postgraduate Program “Statistics and Actuarial-Financial Mathematics” (2016 - 2018)
6. Member of the Committee for the composition of the Postgraduate Studies regulation standard of the University of the Aegean (2017)
7. Committee for the Promotion of the University of the Aegean *(2015)*
8. Economic Council of the University of the Aegean (Associate member) *(2011)*
9. Departmental representative at the Academic Committee of Innovation and Entrepreneurship of the University of the Aegean *(2011)*
10. Departmental committee for the Undergraduate Studies Academic Program *(2010-2014)*
11. Coordinating committee for the postgraduate program “Statistics and Actuarial-Financial Mathematics” *(2009)*
12. Group for the Internal Evaluation of the Department *(2009-2010)*

- Participation in Programs
  - Viability study and Standardization of viability analysis of the various sub-actions of the action “Administration and Project Management” of the Project “The University of the Aegean, basic factor for the socio-economic development of the Aegean space"» (EP «Education and Life-long learning») *(2015)*
  - ΕΠΕΑΕΚ Pythagoras I: A study of insurance contracts and pension plans, Department of Statistics and Actuarial-Financial Mathematics, *(2004-2006)*

Consulting
- EXODUS *(Consulting Company)* *(2009)*
- HSBC *(Bank)* *(2008)*
- Quantos S.A. *(Statistical Studies Company)* *(2004)*

ProBank A.E. *(Bank)* *(2001- 2004)*
- Risk Manager
- Member of the Assets-Liabilities Management Committee
- Member of the Investment Committee
- Member of the Investment Committee of the ProFund Mutual Funds Management S.A.

The Greek Progress Fund S.A. *(Closed-end Fund)* *(1999-2001)*
- Associate General Director and Fund Manager

Edrasis-C.Psalidas S.A.. *(Construction Company)* *(1998-1999)*
- Financial Consultant.
- Public and investors relations

Athens College *(1995 - 1997)*
- Teacher of Mathematics

Foundation College *(1994 - 1995)*
- Teacher of Mathematics

Military Service *(1992 - 1994)*
- Greek Navy

EDUCATION

Ph.D. ***Mathematics,*** University of London, QMW, Dept. of Mathematics *(1988 - 1992)*

M.Sc. ***Mathematical Trading and Finance,*** City University, CASS Business School *(1997 - 1998)*

M.Sc. ***Mathematics,*** University of London, KQCL, Dept. of Mathematics
(1987 - 1988)

B.Sc. ***Mathematics,*** University of Athens, Dept of Mathematics
(1981 - 1986)

LANGUAGES

Greek, English, French

PUBLICATIONS

A. In Academic Journals

1. ***Who would invest only in the risk-free asset?*** *with N Azevedo, D Pinheiro and AN Yannacopoulos*, International Journal of Financial Engineering 5 (03), (2018)
2. ***Contingent Claim Pricing Through a Continuous Time Variational Bargaining Scheme,*** *with N. Azevedo, D. Pinheiro and A. Yannacopoulos,* Annals of Operations Research, Springer, (2018)
3. ***A hidden Markov model with dependence jumps for predictive modeling of multidimensional time-series,*** *with A. Petropoulos and S. Chatzis,* Information Sciences, Elsevier, (2017)
4. ***A Novel Corporate Credit Rating System Based on Student's-t Hidden Markov Models,*** *with A. Petropoulos and S. Chatzis,* Expert Systems with Applications, Elsevier, (2016)
5. ***The beta Intervalling Effect During a Deep Economic Crisis-Evidence from Greece,*** *with G. Mantsios,* International Journal of Business and Economic Sciences Applied Research, (2016)
6. ***Contract Pricing and Utility Sharing,*** *with M. Anthropelos, N. Frangos and A. Yannacopoulos,* IMA Journal of Management Mathematics, Oxford Journals, (2014)
7. ***On a Variational Sequential Bargaining Pricing Scheme,*** *with N. Azevedo, D. Pinheiro and A. Yannacopoulos,* Optimization, 62(11), 1501-1524, Taylor & Francis, (2013)
8. ***A Projected Gradient Dynamical System Modelling the Dynamics of Bargaining,*** *with D. Pinheiro, A.A. Pinto and A.N. Yannacopoulos,* Journal of Difference Equations and Applications, 19(1), p.59-95, Taylor & Francis, (2013)
9. ***Behavioural and dynamical scenarios for contingent claims valuation in incomplete markets,*** *with L. Boukas, D. Pinheiro, A. Pinto and A. Yannacopoulos,* Journal of Difference Equations and Applications, 17(7), p. 1065-1084, Taylor & Francis, (2011)
10. ***Scenarios for price determination in incomplete markets,*** *with A. Yannacopoulos,* International Journal of Theoretical and Applied Finance, 11 (5): 415 – 445, (2008)
11. ***A generalized ROC approach for the validation of credit rating systems and scorecards,*** *with C.Nakas*, The Journal of Risk Finance, 8 (5): 481-488, (2007)
12. ***A closed form solution for the price of cross-commodity electricity derivatives,*** *with D.Tsitakis and A.Yannacopoulos,* Physica A, 371 (2): 543-551, (2006)

B. Chapters in Books and Collective Volumes

1. ***Relative Entropy Criterion and CAPM-like Pricing,*** Trends in Mathematical Economics, Springer, (2016)
2. ***Linear and Nonlinear Parabolic Partial Differential Equations in Financial Engineering,*** *with L.A. Boukas, K.I. Vasileiadis and A.N. Yannacopoulos,* Mathematical Modeling with Multidisciplinary Applications, Ed. Xin-She Yang, John Wiley & Sons, p.191-228 (2013)
3. ***Minimum Regret Pricing of Contingent Claims in Incomplete Markets,*** *with C. Kountzakis and A. Yannacopoulos,* Dynamics, Games and Science , Vol. I, Chapter 32, Springer, p.503-528, (2011)
4. ***Three Behavioural Scenarios for Contingent Claims Valuation in Incomplete Markets,*** *with L. Boukas, D.Pinheiro, A.Pinto and A.Yannacopoulos,* Nonlinear Science and Complexity, Vol. II, eds J. A. Tenreiro Machado, Manuel F. Silva, Ramiro S. Barbosa, Lino B. Figueiredo , pp 221-228, Springer, (2011)
5. ***Οικονομικά της Προστασίας της Ιδιωτικότητας,*** *με τους Α. Γιαννακόπουλο, Κ. Λαμπρινουδάκη, Σ. Γκρίτζαλη και Σ. Κάτσικα,* Προστασία της Ιδιωτικότητας & Τεχνολογίες Πληροφορικής και Επικοινωνιών, Κ. Λαμπρινουδάκης, Λ. Μήτρου, Σ. Γκρίτζαλης, Σ. Κάτσικας (εκδ. Παπασωτηρίου) (2010)
6. ***A Risk Model for Privacy Insurance,*** *with S. Gritzalis, S. Katsikas, C. Lambrinoudakis and A. Yannacopoulos* , Digital Privacy: Theory, Technology and Practices, Alessandro Acquisti, Sabrina de Capitani di Vimercati, Stefanos Gritzalis, Costas Lambrinoudakis (Eds.) Auerbach Publications,Taylor & Francis, (2007)

C. *Other Scientific Writings*

1. ***On a question of Verma about indecomposable representations of algebraic groups and of their Lie algebras,*** *(Ph.D. Thesis 1992)*
2. ***Convertible Bonds,*** *(M.Sc. Thesis 1998)*
3. ***The Artin-Rees Lemma and its generalizations,*** *(M.Sc. Thesis 1988)*

D. *Reviewed conference proceedings*

1. ***Modeling Privacy Insurance Contracts and their Utilization in Risk Management for ICT Firms,*** *with S. Gritzalis, S. Katsikas, C. Lambrinoudakis and A. Yannacopoulos,* Proceedings of the ESORICS 2008 13th European Symposium on Research in Computer Security, S. Jajodia, J. Lopez (Eds.), pp.207-222, September 2008, Malaga, Spain, Springer LNCS Vol. 5283
2. ***A short overview of some behavioural scenarios for derivative pricing in incomplete markets,*** *with D.Pinheiro, A.Pinto and A.Yannacopoulos,* Proceedings in Applied Mathematics and Mechanics, **7** (2007), Special Issue: Sixth International Congress on Industrial Applied Mathematics (ICIAM07) and GAMM Annual Meeting, Zürich 2007
3. ***A Scenario Approach for Price Determination in an Incomplete Market Example,*** *with A. Yannacopoulos*, 4th Applied Financial Economics International Conference, INEAG, Samos 2007 Proceedings, JUL 2007
4. ***Validation of credit rating systems and scorecards,*** *with C. Nakas***,** 3rd Applied Financial Economics International Conference, INEAG, Samos 2006 Proceedings, JUL 2006

E. *Articles in newspapers*

1. ***Τις μεγάλες χρηματοοικονομικές κρίσεις ακολουθεί η ύφεση,*** ΑΙΓΑΙΟ.Edu, Απρίλιος 2010 http://issuu.com/aigaio.edu/docs/aigaio_edu_5

TALKS-PRESENTATIONS IN SEMINARS-CONFERENCES-SUMMER SCHOOLS

1. ***R in Finance,*** (Invited Speaker), *R & Big Data Analytics - RABDA2018, Summer school, Samos 22-28 June 2018,* https://summer-schools.aegean.gr/RABDA2018
2. ***On Credit Risk Modeling and Management,*** (Invited Speaker*), II Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, Technical University of Lisbon, 4 - 8 February 2013,* http://cemapre.iseg.ulisboa.pt/~sdc2013/ http://www.actuar.aegean.gr/notes/Credit_Risk_Intro.pdf
3. ***On Risk Appetite, Risk Measures, Economic Capital and Enterprise Value,*** (Invited Speaker), *Enterprise Risk Management, Summer School, Groupe Consultatif Actuariel Europeene, Hellenic Actuarial Society, Samos 29 June – 2July 2010* http://www.actuaries.org.gr/samos2010/ http://www.samos.aegean.gr/actuar/sxeno/RISK%20APPETITE.pdf
4. ***On Risk Appetite, Risk Measures, Economic Capital and Enterprise Value,*** *7ο Θερινό Σχολείο στα Στοχαστικά Χρηματοοικονομικά, Αθήνα, Ιούλιος 2010*
5. ***On Portfolio Valuation under Liquidity Risk,*** *7ο Θερινό Σχολείο στα Στοχαστικά Χρηματοοικονομικά, Αθήνα, Ιούλιος 2010* http://www.samos.aegean.gr/actuar/sxeno/Ρευστότητα%20και%20Συνέπεια.pdf
6. ***Θέματα στη Διαχείριση Τραπεζικού Κινδύνου,*** *Σεμινάριο ΚΕΚ Οικονομικού Πανεπιστημίου Αθηνών με τίτλο «Risk management στον Επιχειρηματικό και Τραπεζικό χώρο-Πρότυπα Βασιλείας ΙΙ» (2006-2007)*
7. ***A Scenario Approach for Price Determination in an Incomplete Market Example,*** *4th Applied Financial Economics International Conference, INEAG Σάμος, Ιούλιος 2007*
8. ***Validation of credit rating systems and scorecards: A generalized ROC approach,*** *3rd Applied Financial Economics International Conference, INEAG Σάμος, Ιούλιος 2006* http://www.samos.aegean.gr/actuar/sxeno/VALIDATION%20OF%20CREDIT%20RATING%20SYSTEMS%20AND%20SCORECARDS.pdf
9. ***Validation of credit rating systems and scorecards,*** *3ο Θερινό Σχολείο στα Στοχαστικά Χρηματοοικονομικά, Χίος, Ιούλιος 2006*
10. ***Μη αβελιανή συνομολογία και αδιάσπαστες αναπαραστάσεις,*** *(Πανεπιστήμιο Αθηνών, Οκτώβριος 1992)*
11. ***The sl(n) - endomorphisms of the symmetric powers of the natural SL(n) – modules,*** *(University of London, QMW, 1990)*
12. ***An application of non - abelian cohomology on indecomposable representations of group algebras over fields of prime characteristic,*** *(University of London, QMW, 1989)*

ORGANIZATION OF WORKSHOPS AND SUMMERSCHOOLS

1. 3^{o}-5^{o} Summer school in Stochastic Finance, Chios 2006-2008, co-organized with the Department of Statistics of Athens University of Economics and Business
2. 6^{o}-7^{o} Summer school in Stochastic Finance, Athens 2009-2010, co-organized with the Department of Statistics of Athens University of Economics and Business
3. 8^{o} Summer school in Stochastic Finance, Nafplio 2011, co-organized with the Department of Statistics and the Department of Business administration of Athens University of Economics and Business
4. 9^{o}-16^{o} Summer school in Stochastic Finance, Αθήνα 2012-2019, co-organized with the Department of Statistics and the Department of Business administration of Athens University of Economics and Business
5. Mathematical Biology on the Mediterranean Conference (MBMC-Samos 2019), summer school and workshop, Samos 1-14 September 2019, co-organized with Sorbonne Universite, Imperial Collee London, University of Auckland, Universite Paris 13, University of St. Andrews, INRIA, ESMTB, ERC, EMS.

SCHOLARSHIPS-DISTINCTIONS-CERTIFICATIONS

- Certified Portfolio Manager
- SERC Scholarship *(1988 - 1990)*
- Sir William Dunn Studentship Award *(1989 - 1992)*
- M.Sc. Distinction *(1988)*