ΟΙΚΟΝΟΜΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS
ΣΧΟΛΗ ΟΙΚΟΝΟΜΙΚΩΝ ΕΠΙΣΤΗΜΩΝ
SCHOOL OF ECONOMIC SCIENCES
ΤΜΗΜΑ ΟΙΚΟΝΟΜΙΚΗΣ ΕΠΙΣΤΗΜΗΣ
DEPARTMENT OF ECONOMICS

STYLIANOS (STELIOS) ARVANITIS
ASSISTANT PROFESSOR

Curriculum Vitae

PERSONAL INFORMATION

Year and Place of Birth: January 1975, Athens, Greece.
Nationality: Greek.
Office Ad.: AUEB, Patision 80, Athens 104 34, Greece. Tel.: +30-210-8203313. Email: stelios@aueb.gr.

ACADEMIC EXPERIENCE

12/2008 - : ***Assistant Professor***
Department of Economics, *AUEB*.

9/2006 – 12/2008 : ***Assistant Professor (under appointment)***
Department of Economics,, *AUEB*.

9/2004 – 2/2005 : ***Visiting Lecturer.***
Department of International and European Economic Studies, *AUEB*.

9/2003 – 7/2004 : ***Visiting Lecturer***
Department of Economics, *University of Cyprus.*

EDUCATION

2003: **AUEB**
Ph.D. in Economics (distinction)
Title: «Properties of Models of Conditional Heteroskedasticity and Indirect Inference Estimators».

2000: **AUEB**
M.Sc. in Economics (distinction)

1997: **National and Kapodistrian University of Athens**
B.S. in Economics (grade 7.9/10)

TEACHING EXPERIENCE

A. Undergraduate and Graduate Courses

Department of Economics AUEB.
[1] (2008-) *Statistics II* (U), course's blog (in Greek): http://stat2econ.wordpress.com/.
[2] (2009-) *Mathematics III* (U), course's blog (in Greek): https://econ3math.wordpress.com.
[3] (2006-2009) *Analysis of Money and Capital Markets* (U).
[4] *(2007) Econometrics II* (U).
[5] *(2006-) Econometrics II* (M.Sc.).
[6] *(2010) Econometrics I* (M.Sc.).
[7] *(2010) Mathematics* (M.Sc.).
[8] (2013) *Mathematical Economics* (M.Sc.), course's blog (in Greek): http://econmathmsc.wordpress.com/.
[9] (2009/10 and 2011/12) *Mathematical Economics* (Ph.D.), course's blog (in Greek): http://econmathphd.wordpress.com/
[10] (2006) *Topics in Econometrics* (Ph.D.).
[11] (2010-) *Topics in Finance* (Executive M.Sc.), course's blog (in Greek): http://econmathphd.wordpress.com/.

Department of International and European Economic Studies, AUEB.
[1] (2004) *Mathematics I* (U).
[2] (2004) *Econometrics I* (M.Sc.).
[3] (2006) Topics in Econometrics (Ph.D)
[4] (2007) *Econometrics II* (U).
[5] (2009) *Mathematics III* (U).

Department of Economics University of Cyprus.
[1] (2003) *Mathematics II* (U).
[2] (2004) *Econometrics II* (U).
[3] (2004) *Mathematics I* (U).

B. Doctoral Candidates (as a supervisor of an advanced level candidate, or an examination committee member)

[1] A. Louka (supervisor): «Derivation of first-order asymptotic properties of indirect estimators in conditionally heteroskedastic models».

[2] S. Anyfantaki. (member): «An Econometric Investigation of the Risk Return Relation».
[3] D. Kyriakopoulou (member): «Asymptotic Expansions of Econometric Estimators in Time Series Models».
[4] I. Dendramis (member): «Discrete Time Modelling and Valuation in Finance».
[5] I. Karavias (member): «Unit root tests and structural breaks in panel data».
[6] M. Papaspirou (member): «Stochastic Model of Efficient Frontiers: Bayesian Inference and Applications».

C. Supervision of a significant number of undergraduate/M.Sc. theses.

PAPERS

A. PUBLISHED OR FORTHCOMING

1. «Conditionally Heteroskedastic in Mean Models» (with A. Demos), published in *«Quantitative Methods in Finance. In Honor of Professor Andrean Kintis»,* p. 169-200, 2005.
2. «Time Dependence and Moments of a Family of Time-Varying Parameter GARCH in Mean Models» (with A. Demos), published in «*Journal of Time Series Analysis*», 25 (1), p. 1-25, 2004.
3. «The Diffusion Limit of a Time Varying Parameter GQARCH-M model», published in *«Econometric Theory»,* 20 (1), p. 161-175, 2004.
4. «On the Existence of Strongly Consistent Indirect Estimators When the Binding Function is Compact Valued», *Journal of Mathematics*», Volume 2013 (2013), Article ID 515830, 14 pages, http://dx.doi.org/10.1155/2013/515830.
5. «Limit Theory for the QMLE of the GQARCH(1,1) Model» (with A. Louka) forthcoming to «*Communications in Statistics-Theory and Methods*», **DOI:**10.1080/03610926.2013.847105.
6. «Valid Locally Uniform Edgeworth Expansions Under Weak Dependence and Sequences of Smooth Transformations» (with A. Demos), «*Journal of Time Series Econometrics*», Volume 6, Issue 2, Pages 183–235, ISSN (Online) 1941-1928, ISSN (Print) 2194-6507, DOI: 10.1515/jtse-2012-0003, March 2014.
7. «A Simple Example of an Indirect Estimator With Discontinuous Limit Theory in the MA(1) Model»,«*Journal of Time Series Analysis*», 35, pages 536–557. DOI: 10.1111/jtsa.12080

8. «A Class of Indirect Estimators: Higher Order Asymptotics and Approximate Bias Correction» (with A. Demos), forthcoming to «*Econometrics Journal*», DOI: 10.1111/ectj.12045.
9. «A Note on the QMLE Limit Theory in the Non-stationary ARCH(1) Model» (with A. Louka), forthcoming to «*Journal of Time Series Econometrics*», ISSN (Online) 1941-1928, ISSN (Print) 2194-6507, DOI: 10.1515/jtse-2014-0034, May 2015.

B. UNDER SUBMISSION

10. «Testing for Prospect Theory and Markowitz Stochastic Dominance Efficiency» (with N. Topaloglou) submitted to «*International Economic Review*».
11. «On the Validity of Edgeworth Expansions and Moment Approximations for Three Indirect Estimators» (with A. Demos), status: revise and resubmit to the «*Journal of Econometric Methods*».

C. WORKING PAPERS

12. «Stochastic Spanning» (with M. Hallam and Th. Post), http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2575165

UNDER COMPLETION

1. «Convergence to Efficiency in Asymmetric Double Auctions», (with E. Zacharias).
2. «A Family Of Time Varying Generalized Stochastic Volatility in Mean Models. Time Dependence, Higher Moments and Estimation», (with A. Demos).
3. «A CLT For Martingale Transforms With Infinite Variance and the QMLE for Heteroskedastic Models», (with A. Louka).
4. «Mixed Stable Asymptotics of the OLSE and Self-Normalized Wald Tests».
5. «Saddle-Type Point Functionals for Continuous Processes with Applications to Tests for Stochastic Spanning».
6. «Martingale Transforms With Mixed Stable Limits and the QMLE for Conditional Heteroskedasticity», (with A. Louka).
7. «A Note On the Existence and Uniqueness of Stationary and Ergodic Solutions to Stochastic Recurrence Equations Using Matkowski's FPT».

RESEARCH INTERESTS

1. Indirect Estimators.
2. Subsampling-Bootstrap.
3. Epi-convergence in Distribution.
4. Limit theory under parameters assuming boundary values.
5. Limit Theorems to mixed stable limits for martingale transforms and robust inference.
6. Limit theory and refinements for the QMLE in conditionally heteroskedastic models.
7. Algebraic-geometric properties of solution sets for polynomials with applications to the issue of existence and uniqueness of stationary and ergodic solution in conditionally heteroskedastic models defined by recursive relations.
8. Refinements of equilibria in games based on asymptotic methods.
9. Mathematical, Statistical and Computational aspects of spanning sets generated by preorders on families of probability distributions with applications in finance.
10. Homology-Cohomology.

INTERNATIONAL CONFERENCES, RESEARCH VISITS AND SEMINARS

[1] **EEA-ESEM European Meeting,** 25-29 August 2014. Toulouse, France.

[2] **13th Conference on Research on Economic Theory and Econometrics**, Milos, July 13-17, 2014.

[3] **Conference on Indirect Estimation Methods in Finance and Economics**, *Abbey Hegne, Allensbach, Lake Constance, Germany*, May 30-31, 2014 (Invited Speaker).

[4] **5th Italian Congress of Econometrics and Empirical Economics (ICEE)**, *Genova (Italy)*, January 16- 18, 2013.

[5] **66th European Meeting of the Econometric Society (EEA-ESEM)**, *Malaga (Spain)*, August 27- 31, 2012.

[6] **Southampton Spring Econometrics Event (SSEE)**, *Southampton (UK)*, June 28 – 29, 2012.

[7] **4th Conference on Research in Economic Theory and Econometrics**, *Syros (Greece)*, July 11-14, 2005.

[8] **3rd Conference on Research in Economic Theory and Econometrics**, *Syros (Greece)*, July 12-15, 2004.

I have been invited for research visits and/or presented papers in seminar series of the following:

- **University of Southampton**
- **University of Ioannina**
- **University of Cyprus**
- **University of Pireaus**
- **University of Pelloponese**
- **AUEB**

REFEREE IN INTERNATIONAL JOURNALS

[1] *Journal of Econometrics*
[2] *Physica A*
[3] *International Journal of Forecasting*
[4] *Journal of Probability*
[5] *Quantitative Finance*
[6] *The European Journal of Finance*
[7] *Journal of Economic Dynamics and Control*
[8] *Journal of Statistical Theory and Practice*
[9] *Journal of Banking and Finance*
[10] *Journal of Empirical Finance*