CURRICULUM VITAE

Surname: **KATAVOLOS**

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Born: 30th April 1950, Athens, Greece.

Nationality: Greek.

1. Education

1972 B.Sc. in Physics (2nd class Honours, Upper Division): University of London (Imperial College).

1974 M.Sc. in Mathematics (with Distinction): University of London (Bedford College).

1977 Ph.D. in Mathematics: University of London (Bedford College). Supervisor: Professor R.F. Streater.

2. Academic Career

1974 - 77: Demonstrator, Bedford College and University College, London.

1978 - 80 : 'Special Scientist' (temporary position) Department of Mathematics, University of Crete.

since 1980: Department of Mathematics, NKUA: Senior Assistant (1980-82), Lecturer (1982 - 85), Assistant Professor (1985 - 93), Associate Professor (1993-2000).

2000 - August 2017: Professor, Department of Mathematics, NKUA.

Visiting Positions:

Sep. 87 - Apr. 88 : Dalhousie University, Canada.

Apr. 88 - Jun. 88 : King's College, University of London, UK.

Sept. 93 - Jan. 94: University of Lancaster, UK.

3. **Specialisation**
   Main field: Non-selfadjoint Operator Algebras.
   Other fields: Operator Theory, Banach Algebras, Abstract Harmonic Analysis, Functional Analysis.
   Current research interests: Semi-crossed products and Dynamical Systems, Masa bimodules and Spectral synthesis, Quantized Functional Analysis.

4. **Other Activities**
   Director of the NATO Advanced Study Institute and Aegean Conference on Operator Algebras and Applications, held in Samos, Greece, August 19-28, 1996.

   Coordinator for the Erasmus exchange program, 1989 -90.

   Participation in the Erasmus exchange program committee, 1991-92, 1992-93.

   Coordinator for the Socrates - Erasmus exchange program, 2009-11.

   Coordinator for the joint NKUA – British Council research program, 1999-2001.

   Coordinator for the Greece – Russia Science and Technology Cooperation program, 1999-2001.

   Coordinator for a Herakleitus research program (NKUA), 2002-05.

   Participation in the Pythagoras research program (NKUA), 2005-08.

   Coordinator for a Herakleitus II research program (NKUA), 2010-12.

5. **Research Students**
   E. G. Katsoulis, PhD 1989
   Currently Professor, East Carolina University.
   M. Papadakis, PhD 1993
   Currently Professor, University of Houston, USA.
   I. G. Todorov, PhD 1999
   Currently Professor and Director of the Pure Mathematics Research Centre, Queen's University Belfast, Northern Ireland, UK.
   G. K. Eleftherakis, PhD 2007
   Currently Lecturer, University of Patras, Greece.
   E. Kakariadis, PhD 2011
   Currently Lecturer in Pure Mathematics, Newcastle University, U.K.

D. Andreou, In progress.

I have supervised eight MSc theses.

6. International Conferences

I have participated in more than 35 international conferences.

Plenary talks

• "Harmonic Analysis and Operator Algebra Theory", one-hour invited address, 15th Panhellenic Analysis Conference, University of Crete, 2016.

• "Masa Bimodules of Toeplitz type", one hour plenary talk, ' International Conference on Operator Algebras, Nanjing University of Science and Technology, China, June 20-23, 2013.

• "Morita type equivalences for dual Operator Algebra (according to G. Eleftherakis)", one hour plenary talk, Operator Algebra Workshop, Queen's University Belfast, 2006.

• "Reflexivity, Suppots and Spectral Synthesis", two ninety minutes plenary talks, NATO Advanced Study Institute on "Operator Algebras and Applications", Samos, 1996.

7. Publications

(A) Books

(1) *Introduction to the Theory of Differential Equations* (with P. Strantzalos), Kardamitsa Publishers, Athens 1987 (in Greek)

(2) *Operator Algebras and Applications* (editor) Proceedings of the NATO ASI, Kluwer Academic Publishers, Dordrecht, 1997.

(3) *Introduction to Operator Theory*, Symmetria Publishers, Athens 2008 (in Greek).

Book Chapter *von Neumann algebras and unbounded operators* (in Greek), in: *Operator Algebras and Quantum Mechanics*, M. Anoussis, S. Kotsakis, N. Hatzisavvas (editors), Proceedings of the third Summer School in Analysis, Geometry and Mathematican Physics, University of the Aegean 1995, Ziti Publishers, Thessaloniki 1997.

(B) Research Articles (number of citations in brackets)

1. M. Anoussis, A. Katavolos, and I. G. Todorov. *Ideals of the Fourier algebra, supports and harmonic operators.* Math. Proc. Cambridge Philos. Soc., 161(2):223–235, 2016 [**1**].

2. Aristides Katavolos. *Operator algebras: an introduction.* Serdica Math. J., 41(1):49–82, 2015.

3. A. Katavolos. *Some operator algebras from semigroups.* In Algebraic methods in functional analysis, volume 233 of Oper. Theory Adv. Appl., pages 75–84. Birkhäuser/Springer, Basel, 2014.

4. Anoussis, M.; Katavolos, A.; Todorov, I.G. *Ideals of $A(G)$ and bimodules over maximal abelian selfadjoint algebras*, J. Funct. Anal. 266 (2014), no. 11, 6473–6500 [**3**].

5. Anoussis, M.; Katavolos, A.; Todorov, I.G. *Operator algebras from the discrete Heisenberg semigroup*, Proc. Edinburgh Math. Soc. 55 (2012), 1–22 [**4**].

6. Anoussis, M.; Katavolos, A.; Todorov, I.G. *Angles in C*-algebras*, Houston J. Math. V. 37 (2011), No. 2, 501–517 [**1**].

7. Katavolos, A.; Paulsen, V.I. *On the ranges of bimodule projections*, Canad. Math. Bull 48 (2005), no. 1, 97–111, MR2118767 (2005j:46037) [**27**].

8. Katavolos, A.; Todorov, I.G. *Normalizers of operator algebras and reflexivity*, Proc. London Math. Soc. (3) 86 (2003), 463–484, MR1971159 (2005g:47137) [**13**].

9. Katavolos, A.; Power, S.C. Translation and dilation invariant subspaces of $L^2(\mathbb{R})$, J. Reine Angew. Math. 552 (2002), 101–129. 47Axx (47Lxx) [**12**].

10. Donsig, A.P.; Katavolos, A.; Manoussos, A. The Jacobson radical of an analytic crossed product, J. Funct. Anal. 187 (2001), 129–145 [**24**].

11. Katavolos, A.; Lambrou, M. S.;Longstaff, W. E., Pentagon subspace lattices on Banach spaces, J. Operator Theory 46 (2001), 355–380, MR 1870412 (2003a:47137). [**18**].

12. Erdos, J.A., Katavolos, A., Shulman, V.S. Rank one subspaces of bimodules over maximal abelian selfajoint algebras, J. Funct. Anal., 157 (1998), 554–587, MR 99f:47054 [**28**].

13. Katavolos, A.; Stamatopoulos, C. Commutators of quasinilpotents and invariant subspaces, Studia Math. 128 (1998) no. 2, 159–169, MR 99b:46070 [**10**].

14. Katavolos, A. Reflexivity, supports and spectral synthesis. *Operator algebras and applications (Samos, 1996)*, 225–243, NATO Adv. Sci. Inst. Ser. C Math. Phys. Sci., 495, Kluwer Acad. Publ., Dordrecht, 1997, MR 98e:47067.

15. Katavolos, A.; Power, S. C. The Fourier binest algebra. Math. Proc. Cambridge Philos. Soc. 122 (1997) no. 3, 525–539, MR 98d:47097 [**14**].

16. Barnes, B. A.; Katavolos, A. Properties of quasinilpotents in some operator algebras. Proc. Roy. Irish Acad. Sect. A 93 (1993) no. 2, 155–170, MR 96j:47042 [**2**].

17. Anoussis, M.; Katavolos, A. Unitary actions on nests and the Weyl relations. Bull. Lon. Math. Soc. 27 (1995) no. 3, 265–272, MR 96b:47049 [**4**].

18. Anoussis, M.; Katavolos, A. Isometries of C_p-spaces in nest algebras. J. Lon. Math. Soc. (2) 51 (1995) no. 1, 175–188, MR 95k:47063 [**9**].

19. Anoussis, M.; Katavolos, A.; Lambrou, M. On the reflexive algebra with two invariant subspaces. J. Operator Theory 30 (1993) no. 2, 267–299, MR 95i:47082 [**10**].

20. Katavolos, A.; Lambrou, M. S.; Papadakis, M. On some algebras diagonalized by M-bases of ℓ^2. Integral Equations Operator Theory 17 (1993) no. 1, 68–94, MR 95c:47048 [**13**].

21. Katavolos, A.; Lambrou, M. S.; Longstaff, W. E. The decomposability of operators relative to two subspaces. Studia Math. 105 (1993) no. 1, 25–36, MR 94h:47082 [**7**].

22. Katavolos, A.; Papanastassiou, N. Order convergence in operator algebras. Math. Balkanica (N.S.) 5 (1991) no. 3, 245–249, MR 92m:47081.

23. Katavolos, A. Decomposability of operators relative to two subspaces. Selfadjoint and nonselfadjoint operator algebras and operator theory (Fort Worth, TX, 1990), 77– 81, Contemp. Math., 120, Amer. Math. Soc., Providence, RI, 1991, MR 92f:47045.

24. Katavolos, A.; Katsoulis, E. Semisimplicity in operator algebras and subspace lattices. J. Lon. Math. Soc. (2) 42 (1990) no. 2, 365–372, MR 92b:47066 [**11**].

25. Katavolos, A.; Radjavi, H. Simultaneous triangularization of operators on a Banach space. J. Lon. Math. Soc. (2) 41 (1990) no. 3, 547–554, MR 91i:47058 [**18**].

26. Katavolos, A. Noncommutative L^p spaces. II. Canad. J. Math. 34 (1982) no. 5, 1208–1214, MR 84b:46077 [**11**].

27. Katavolos, A. Are noncommutative L^p spaces really noncommutative? Canad. J. Math. 33 (1981) no. 6, 1319–1327, MR 83a:46074 [**12**].

28. Katavolos, A.; Koch, I. Extension of Tomita-Takesaki theory to the unbounded algebra of the canonical commutation relations. Rep. Math. Phys. 16 (1979) no. 3, 335–352, MR 81g:81039 [**10**].

29. Katavolos, A. Isometric mappings of non-commutative L^p spaces. Canad. J. Math. 28 (1976) no. 6, 1180–1186, MR 54# 5847 [**14**].

8. Selected citations

J. Alaminos, M. Brešar, J. Extremera, Š. Špenko, and A. R. Villena. Derivations preserving quasinilpotent elements. *Bull. Lond. Math. Soc.*, 46(2):379–384, 2014. (cites [**13**]).

K.R. Davidson, E.G. Katsoulis, Operator algebras for multivariable dynamics, *Mem. Amer. Math. Soc.* 209, no. 982, (2011). (cites [**10**]).

N. K. Nikolski, Featured review of *Translation and dilation invariant subspaces of $L^2(\mathbb{R})$* [**9**], MR1940434 (2005a:47009).

Blecher, D. P.; Le Merdy, Ch., *Operator algebras and their modules—an operator space approach.* Oxford University Press, Oxford, 2004 (cites [**4**]).

Shulman V; Turowska L , *Operator synthesis. I. Synthetic sets, bilattices and tensor algebras.* J. Funct. Anal. 209 (2) 2004 (cites [**4,8**]).

Radjavi, H.; Rosenthal P. *Simultaneous Triangularization.* Springer (2000) (cites [**9,12**]).

Davidson, K.R. *Normalizers of finite multiplicity nests.* Proc. Edinburgh Math. Soc. 39 (1996) (cites [**13**]).

Hudson, T.D. *Radicals and prime ideals in limit subalgebras of AF algebras.* Quart. J. Math. Oxford Ser. (2) 48 (1997) (cites [**20**]).