Curriculum Vitae

INFORMAZIONI PERSONALI

Nome	CAMILLO
Cognome	TRAPANI
Recapiti	Dipartimento di Matematica e Informatica
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FORMAZIONE TITOLI

1977:Laurea in Matematica con lode presso l'Universita' di Palermo
1978-1980: Borsa di Studio del CNR
1980-2001: Ricercatore confermato (Settore B02B fino al 2000; Settore Mat 05 dal 2000)
dal 2001: Professore associato (SSD Mat05)
dal 2004: Professore associato confermato
dal 2010: Professore di I fascia (Ordinario dal 2013)

Dal 2009 al 2011: Coordinatore del Dottorato di ricerca in Matematica e Informatica.

Dal 2011: Direttore del Dipartimento di Matematica e Informatica

ATTIVITA' DIDATTICA

Svolge attivita' didattica nel settore MAT05 per i corsi di Laurea in Matematica, Scienze Fisiche e per il corso di laurea magistrale in Matematica. In passato ha svolto attivita' didattica per il Corso di laurea in Informatica della Facolta' di Scienze MM.FF.NN. dell'Universita' di Palermo.

Ha esperienze di insegnamento anche presso la Facoltà d'Ingegneria dell'Università di Palermo.

È autore di tre manuali didattici.

Membro del Collegio dei docenti del Dottorato in Matematica e Informatica, Universita' di Palermo, fino al XXIX ciclo.Nel triennio 2009-2011 è stato Corrdinatore dello stesso Dottorato di ricerca.

Dal XXX ciclo, membro del Collegio del Dottorato in Matematica e Informatica in convenzione tra le Università di Catania (Sede amministrativa), Palermo e Messina. Nell'ambito delle attivita' del dottorato tiene regolarmente corsi ad esso dedicati.

RICERCHE FINANZIATE

2016 - Proprietà spettrali di quasi *-algebre di operatori - GNAMPA

2015 - Proprietà spettrali di quasi *-algebre di operatori - GNAMPA

2014 - Proprietà spettrali di quasi *-algebre di operatori

differenziali

2007 - Algebre parziali di operatori: strutture ed applicazioni -
Fondi RS-UNIPA

2006 - Algebre parziali di operatori: strutture ed applicazioni -
Fondi RS-UNIPA

2005 - Algebre parziali di operatori: strutture ed applicazioni -
Fondi RS-UNIPA

2004 - Algebre parziali di operatori: strutture ed applicazioni -
Fondi RS-UNIPA

2004 - Metodi e strutture algebriche in teoria degli operatori -
PRIN

ASSOCIAZIONI SCIENTIFICHE

Fa parte dell'Unione Matematica Italiana.; del Gruppo Nazionale per l'Analisi Matematica, la Probabilità e applicazioni
dell'Indam.

Socio corrispondente dell'Accademia di Scienze, Lettere e Arti di Palermo.

PUBBLICAZIONI

1 Monographs

1. J.-P. Antoine, A.Inoue, C.Trapani, *Partial *-algebras and their Operator Realizations*, Mathematics and Its Applications, vol.
   535, Kluwer, Dordrecht, 2002
2. J.-P. Antoine, C. Trapani, *Partial inner product spaces: Theory and Applications*, Springer Lecture Notes in Mathematics
   vol. 1986, Berlin, Heidelberg, 2009, ISBN 978-3-642-05135-7.

2 Articles (published or to appear)

1.

G.Epifanio and C.Trapani, [A] *On the matrix representation of closed linear operators:an extension of von Neumann's theory*, J. Math. Phys. **20** (1979), 148-152

2.

G.Epifanio and C.Trapani, *Remarks on a theorem by G.Epifanio ...*, J. Math. Phys. **20** (1979), 1673-1675

3.

G.Epifanio and C.Trapani, [A] *Some spectral properties in algebras of unbounded operators*, J. Math. Phys. **22** (1981), 974-978

4.

G.Epifanio and C.Trapani, [A] *Some topics in pre-Hilbert space*, J. Math. Phys. **23** (1982), 39-42

5.

J.-P.Antoine, G.Epifanio and C.Trapani,[A] *Complete sets of unbounded observables*, Helv. Phys. Acta **56** (1983), 1175-1186

6.

G.Epifanio and C.Trapani, *V* -algebras: a particular class of unbounded operator algebras*, [A] J. Math. Phys. **25** (1984), 2633-2637

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G.Epifanio and C.Trapani, [P] *Commutants of unbounded operator algebras, V*-algebras and applications to Theoretical Physics*, Proc. II Int. Conf. on Operator Algebras, Ideals and their applications. Leipzig 1983 - pg.73 (Teubner, 1984)

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G.Epifanio and C.Trapani, [A] *Quasi *-algebras valued quantized fields*, Ann. Inst. H.Poincaré **46**, 175-185 (1987)

9.

J.-P.Antoine, F.Mathot and C.Trapani, [A] *Partial *-algebras of closed operators and their commutants.II. Commutants and bicommutants*, Ann. Inst. H.Poincaré, **46** (1987), 325-351

10.

G.Lassner,G.A.Lassner and C.Trapani, [A] *Canonical commutation relations on the interval*, J. Math. Phys. **28** (1987), 174-177

11.

G.Epifanio and C.Trapani, [A] *Partial *-algebras of matrices and operators*, J. Math. Phys. **29** (1988), 536-54

12.

C.Trapani, [A] *States and derivations on quasi *-algebras*, J. Math. Phys **29** (1988),1885-1190

13.

J.-P. Antoine, A.Inoue, C.Trapani, [A] *Partial *-algebras of closable operators I. The basic theory and the abelian case*, Publ. RIMS Kyoto Univ. **26**, (1990) 359-395

14.

J.-P. Antoine, A.Inoue, C.Trapani, [A] *Partial *-algebras of closable operators II. States and representations of partial *-algebras*, Publ. RIMS Kyoto Univ., **27**, (1991) 399-430

15.

G.Epifanio and C.Trapani,[A] *Partial *-algebras and Volterra convolution of distribution kernels*, J. Math. Phys., **33**, (1991) 1096-1101

16.

F.Bagarello and C.Trapani, [A] "*Almost*' mean field Ising models: an algebraic approach*, J. Stat. Phys. **65**, (1991) 469-482

17.

G.Epifanio and C.Trapani, [P] *Il 'Rigged Hilbert space approach' alla Meccanica Quantistica*, ne 'I Fondamenti della Meccanica Quantistica', G.Cattaneo - A.Rossi eds. pag.189 (1991).

18.

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G.Epifanio, T.S.Todorov and C.Trapani, [A] *Complete set of compatible non self-adjoint observables*, Helv. Phys. Acta **65** (1992), 1-10.

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J.-P. Antoine, A.Inoue and C.Trapani, [A], *On the regularity of the partial *-algebra generated by a closed symmetric operator*, Publ. RIMS Kyoto Univ. **28** (1992), 757-77

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F.Bagarello and C.Trapani, [A] *A note on the algebraic approach to the "almost" mean field Heisenberg model*, Nuovo Cimento, **108B** (1993), 779-784.

22.

F.Bagarello, C.Trapani, [A] *States and representations of CQ* -algebras*, Ann. Inst. H. Poincaré 61 (1994), 103-133.

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J.-P.Antoine, A.Inoue and C.Trapani, [A] *Spatial theory of *-automorphisms of partial *-algebras*, J. Math. Phys. **35** (1994), 3059-3073.

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J.-P.Antoine, Y.Soulet and C.Trapani, [A] *Weights on Partial *-algebras*, J. Math. Anal. Appl **192** (1995), 920-941.

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J.-P.Antoine, A.Inoue, H.Ogi and C.Trapani, [A] *Standard generalized vectors in the space of Hilbert-Schmidt operators*, Ann. Inst. H. Poincaré **63** (1995), 177-210.

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33.

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A.Russo and C.Trapani, [A] *Quasi *-algebras and multiplication of distributions*, J. Math. Anal. Appl. **215** (1997), 423-442

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G.Epifanio, T.S.Todorov and C.Trapani, [P] *Sets of compatible nonselfadjoint observables as examples of partial GW*- and von Neumann algebraic structures in a complex Hilbert space*, in "Topics in Complex Analysis, Differential Geometry and Mathematical Physics", pg. 165-176, Editors S.Dimiev and K.Sekigawa, World Scientific, Singapore, 1997

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F.Bagarello and C.Trapani, [A] *Morphisms of certain Banach C*-modules*, Publ. RIMS, Kyoto Univ. **36** (2000), 681-705.

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F.Bagarello, A.Inoue and C.Trapani, [A] *Some classes of topological quasi *-algebras* , Proc. Amer. Math. Soc., **129** (2001), 2973-2980.

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F.Bagarello, A.Inoue and C.Trapani, [A] *Unbounded C*-seminorms on partial *-algebras*, Zeit. Anal. Anwen. **20** (2001), 295-314.

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C.Trapani and F.Tschinke, [A] *Partial multiplication of operators in rigged Hilbert spaces*, Integral Equations and Operator Th. **51** (2005), 583--600.

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C.Trapani and F.Tschinke, [**A**] *Partial *-algebras of distributions*, Publ. RIMS, Kyoto Univ. **41** (2005), 259-279.

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C.Trapani, [**A**] *Banach elements and spectrum in Banach quasi *-algebras*, Studia Mathematica **172** (2006), 249-273

62.

J.-P.Antoine and C.Trapani, [**A**] *A note on Banach partial *-algebras*, Mediterranean J. Math **3** (2006), 67-86.

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F.Bagarello, C.Trapani and S.Triolo, [**A**] *Quasi *-algebras of measurable operators*, Studia Mathematica **172** (2006), 289-305.

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F.Bagarello, C.Trapani and S.Triolo, [**A**] *A note on faithful traces on a von Neumann algebra* , Ren. Circ. Mat. Palermo **55** (2006), 21-28.

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F.Bagarello, M.Fragoulopoulou, A.Inoue and C.Trapani, [**A**] *The completion of a C*-algebra with a locally convex topology*, J. Operator Theory **56** (2006), 357-376

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F.Bagarello, A.Inoue and C.Trapani, [**A**] *Completely positive invariant conjugate-bilinear maps on partial *-algebras*, Zeit. Anal. Anwen. **26** (2007), 313-330.

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J.-P. Antoine, C.Trapani and F. Tschinke, [**A**] *Biweights and *-homomorphisms of partial *-algebras* , International J. Math. Math.Sci. Volume **2006** (2006), Article ID 54793, 20 pages, doi:10.1155/ IJMMS/2006/54793.

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J.-P. Antoine, C.Trapani and F. Tschinke, [**A**] *Continuous *-homomorphisms of Banach partial *-algebras*, Mediterranean J.Math. **4** (2007), 357-373.

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C.Trapani, [**P**] *Bounded and strongly bounded elements of Banach quasi *-algebras*, Proceedings of the V International Conference on Topological Algebras and Applications, Athens 2005, Contemporary Math. **427** (2007) 417 – 424.

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F.Bagarello, M.Fragoulopoulou, A.Inoue and C.Trapani, [**A**] *Structure of locally convex quasi C*-algebras*, J.Math. Soc. Japan **60** (2008), 511-549.

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C. Trapani and S. Triolo, [**A**] *Representations of modules over a *-algebra and related seminorms* , Studia Mathematica **184** (2008), 133-148.

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C.Trapani, [**A**]**-Representations, seminorms and structure properties of normed quasi *-algebras* , Studia Mathematica **186** (2008), 47-75.

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F. Bagarello, A. Inoue and C. Trapani, [**A**] *Bicommutants of reduced unbounded operator algebras,* Proc. Amer. Math. Soc. **137** (2009) 3709-3716.

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G. Bellomonte, C. Trapani and S. Triolo, [**A**] *Closedness and lower semicontinuity of positive sesquilinear forms*, Rend. Circolo Mat. Palermo, **58** (2009), 265-274

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F. Bagarello, A. Inoue and C. Trapani,[**A**] *Representations and derivations of quasi *-algebras induced by local modifications of states*, J. Math. Anal. Appl., **356** (2009), 615-623.

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G. Bellomonte, C. Trapani and S. Triolo, [**A**] *Absolutely convergent extensions of nonclosable positive linear functionals*, Mediterranean J. Math. **7** (2010), 63-74.

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J.-P.Antoine, C.Trapani and F. Tschinke, [**A**] *Spectral properties of partial *-algebras*, Mediterranean J. Math. **7** (2010), 123-142.

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F.Bagarello, M.Fragoulopoulou, A.Inoue and C.Trapani, [**A**] *Locally convex quasi C*-normed algebras*, J. Math. Anal. Appl. ,**366** (2010), 593-606.

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J.-P. Antoine and C.Trapani, [**A**] *The Partial Inner Product Space Method: A Quick Overview*, Adv. Math. Phys. Volume **2010** (2010), Article ID 457635, 37 pages.

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C.Trapani and S. Triolo, [**A**] *Faithful Representations of left C*-modules*, Rend. Circolo Mat. Palermo **59** (2010), 295-302

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B.Bongiorno, C.Trapani and S. Triolo, [**A**] *Extensions of positive linear functionals on a *-algebra*, Rocky Mountain Math. J. **40** (2010), 1745-1778.

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J.-P. Antoine and C.Trapani, [**P**] *Partial inner product spaces and operators on them*, Proceedings of the VI International Conference on Functional Analysis and Approximation Theory, Suppl. Ren. Circ. Mat. Palermo **82** (2010), 207-233.

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C. Trapani, *Locally convex quasi C*-algebras: basic aspects and commutative case*, Proceedings of the VI International Conference on Functional Analysis and Approximation Theory, Suppl. Ren. Circ. Mat. Palermo **82** (2010), 449-460.

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G. Bellomonte and C.Trapani, [**A**] *Rigged Hilbert spaces and contractive families of Hilbert spaces* , Monatshefte f. Math., **164** (2011) 271-285 (DOI: 10.1007/s00605-010-0249-1, on line Oct. 8,2010).

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G. Bellomonte and C.Trapani, [**A**] *Quasi *-algebras and generalized inductive limits of C*-algebras* , Studia Mathematica **202** (2011), 165-190.

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F. Bagarello, C. Trapani and. S. Triolo, [**A**] *Representable states on quasi-local quasi *-algebras*, J. Math. Phys., **52** 013510 (2011), 11 pages

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J.-P. Antoine, C.Trapani and F. Tschinke, [**A**] *Bounded elements in certain topological partial *-algebras*, Studia Math. **203** (2011), 223-251

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J.-P. Antoine, D. Lambert and C.Trapani, [**A**] *Partial inner product spaces: Some categorical aspect*s, Advances in Math. Phys., Vol. 2011 (2011) Artickle ID 957592, 22 pages doi: 10.1155/2011/957592

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F.Bagarello, A. Inoue and C. Trapani, [**A**] *Weak commutation relations of unbounded operators and applications*, J. Math. Phys. **52**, 113508 (2011).

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F.Bagarello, A. Inoue and C. Trapani, [**A**] *Weak commutation relations of unbounded operators: nonlinear extensions*, **53**, 123510 (2012); doi: 10.1063/1.4764863

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J-P. Antoine, G. Bellomonte, C. Trapani, *Fully representable and *-semisimple topological partial *-algebras*, Studia Mathematica, No.2, **208** (2012), 167-194 DOI: 10.4064/sm208-2-4.

99.

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100.

J.-P. Antoine and C. Trapani, *Some remarks on quasi-Hermitian operators,* J.Math.Phys. 55, 013503 (2014); doi: 10.1063/1.4853815

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F. Bagarello, A. Inoue and C. Trapani, *Non-self-adjoint hamiltonians defined by Riesz bases*, J. Math. Phys. 55, 033501 (2014); doi: 10.1063/1.4866779

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109.

C. Trapani and F. Tschinke, *Faithfully representable topological *-algebras: some spectral properties* (submitted).

110.

J.-P. Antoine and C. Trapani, *Metric operators, generalized hermiticity and lattices of Hilbert spaces*, in **Non-Selfadjoint Operators in Quantum Physics, Mathematical Aspects**, Edited by F. Bagarello, j.-P. Gazeau, F.H. Szafraniec, M. Znojil, p. 345 - 402, John Wiley & sons, Hoboken, N.J., 2015

111.

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112.

J.-P. Antoine, M.Speckbacher and C. Trapani, *Reproducing pairs of measurable functions* (submitted)

113.

J.-P. Antoine and C. Trapani, *Operator (quasi-)similarity, quasi-Hermitian operators and all that,* In **Non Hermitian Hamiltonian in Quantum Physics***,* Edited by F. Bagarello, R. Passante and C.Trapani, p. 45 -65, Springer Proceedings in Physics 184, 2016.

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F. Bagarello, C.Trapani and S.Triolo, *Gibbs states defined by biorthogonal sequences,* J. Phys. A: Math. Theor. *49 (2016) 405202 (15pp)*

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S. Di Bella and C. Trapani, *Some Representation Theorems for Sesquilinear Forms,* J. Math. Anal. Appl (published on line Februray 10, 2017)

117.

R. Corso and C.Trapani, *Representation theorems for solvable sesquilinear forms,* (submitted)

3 Textbooks

1. C.Trapani, *Un modulo di Analisi due*, ISBN 88-7999-642-8, Aracne Editrice, Roma, 2004
2. C.Trapani e R. Messina, *Esercizi di Analisi uno*, ISBN 88-7999-911-7, Aracne, Roma, 2004
3. C.Trapani, *Analisi Matematica (Funzioni di una variabile reale)* , ISBN 978-88-386-6439-7, McGraw-Hill, Milano, 2008.

ATTIVITA' SCIENTIFICHE

Svolge attività di ricerca in Teoria degli Operatori, Algebre di Operatori ed Analisi funzionale su cui ha pubblicato più di cento articoli scientifici e due monografie di ricerca.

E' stato fra gli organizzatori di quattro conferenze internazionali di Analisi funzionale e Teoria degli operatori e membro del Comitato scientifico di altre due. Nel 2015 è stato co-presidente del Comitato organizzatore del convegno PHHQP2015.

AMBITI DI RICERCA

Teoria degli Operatori

Algebre di Operatori

Analisi funzionale