

ACHILLE BASILE

Department of Mathematics and Statistics and CSEF

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Date of birth: January 21st, 1958

Positions

1994 - present: Full Professor in Mathematical Methods for Economics, Faculty of Economics, University Federico II

1987 – 1994: Associate Professor in Mathematical Methods for Economics, Faculty of Economics, University Federico II

1984 – 1987: Assistant Professor in Mathematical Analysis, Faculty of Sciences, University Federico II

Education

1981 – 1983: Higher education in Mathematics, National Institute for Advanced Mathematics “F. Severi” (INdAM), Rome

1976 – 1981: Laurea (Mathematics), University Federico II

Other activities

1997 – 2005: Director of the Ph. D. program in Mathematics for Economic Analysis and Finance, University Federico II, Naples

2001 - 2006: Vice President of the *Division of Human and Social Sciences* of University Federico II, Naples

2000-2009: Editorial Board of *Lecture Notes in Economics and Mathematical Systems*, Springer-Verlag

2005 – present: Dean of the Faculty of Economics, University Federico II, Naples

Professional Societies

- *ITALIAN ASSOCIATION OF MATHEMATICS APPLIED TO ECONOMIC AND SOCIAL SCIENCES (AMASES)*
1996-2000, member of Scientific Committee
2000-2005, General Secretary
2011- present, President
- *ITALIAN MATHEMATICAL UNION (UMI)*
- *AMERICAN MATHEMATICAL SOCIETY*
- *SOCIETY FOR THE ADVANCEMENT OF ECONOMIC THEORY*
- *SOCIETÀ NAZIONALE DI SCIENZE LETTERE ED ARTI IN NAPOLI (ACCADEMIA DI SCIENZE FISICHE E MATEMATICHE)*

Scientific interests

Functional Analysis, Measure Theory, Game Theory, General Equilibrium Theory, Public Economic Theory.

Awards

1991 Academic Prize for Mathematical Sciences, *SOCIETÀ NAZIONALE DI SCIENZE LETTERE ED ARTI IN NAPOLI*.

ACHILLE BASILE
PUBLICATIONS

Su un teorema di decomposizione alla Lebesgue per topologie su anelli di insiemi, **Rend. Acc. Sci. Fis. Mat. Napoli** Ser. IV vol. 51/1 anno 122, 61-65, 1984

Decomposizioni di topologie su algebre di insiemi, Atti II Convegno di Topologia Taormina 4-7 aprile 1984. Supp. **Rend. Circ. Mat. Palermo** Ser. II n.12, 181-187, 1986

Controls of Families of Finitely Additive Functions, **Ricerche di Matematica** 35, 291-302, 1986

Topological Boolean Rings of First and Second Category. Separating Points for a Countable Family of Measures, **Radovi Matematički** 2, 113-125, 1986 (joint with H. Weber)

A Proof of Extension Theorems of s -bounded Set Functions, **Atti Sem. Mat. Fis. Univ. Modena** 34, 65-70, 1985/86

Sequential Compactness for Sets of Sugeno Fuzzy Measures, **Fuzzy Sets and System** 21, 243-247, 1987

The Convergence With Respect to Small Systems Comes From a Metric, **Rend. Circ. Mat. Palermo** Ser. II 36, 110-113, 1987

A Remark on a Frechet-Smulian Criterion, **Bull. of Polish Acad. of Sci.** 37 n. 7/12, 385-389, 1989

Scelte comunitarie coalizioni ed infiniti agenti, Preprint n. 54, 1989, Dipartimento di Matematica e Applicazioni, University Federico II, Naples

Core-Walras Equivalence and Quasi-countable Additivity, **Studi Economici** 38, 25-41, 1989

Monotonely Cauchy Locally-solid Topologies, **Order** 7, 407-416, 1991 (joint with T. Traynor)

Alcuni risultati per multifunzioni finitamente additive, **Atti XV Convegno AMASES**, Grado, 26-29 settembre 1991, 91-99

Integration: Uniform Structure, **Journal of Math. Anal. Appl.** 159, 373-381, 1991 (joint with A. Avallone)

Common Extension of Group-valued Charges, **Boll. UMI** ser. 7 vol 5A, 157-162, 1991 (joint with K. P. S. Bhaskara Rao)

Finitely Additive Nonatomic Coalition Production Economies: Core-walras Equivalence,

International Economic Review 34, 983-994, 1993

On The Liapunov-richter Theorem in the Finitely Additive Setting, **Journal of Mathematical Economics** 22, 557-561, 1993 (joint with Anna Avallone)

Ricchezza di selezioni per multifunzioni di produzione, **Atti XVII Convegno AMASES**, Ischia, 8-11 settembre 1993, 189-199

Bounded Common Extensions of Bounded Charges, **Proceedings of American Mathematical Society** 121, May, 137-143, 1994, (joint with K.P.S. Bhaskara Rao and R.M. Shortt)

Finitely Additive Correspondences, **Proceedings of American Mathematical Society** 121, July, 883-891, 1994

The Generalized Yosida-Hewitt Theorem, **Mathematical Proceedings of Cambridge Philosophical Society** 116, 527-533, 1994 (joint with A.V. Bukhalov and M. Yakubson)

From Large Economies to Uniform Semigroup Valued Measures, **Atti III Congresso "Dr. Monteiro" Bahia Blanca**, April 26-28 1995, 91-99, ISSN 0327-9170

Equilibri di Nash per giochi non cooperativi, **Atti III Congresso "Dr. Monteiro" Bahia Blanca**, April 26-28 1995, 127-138, ISSN 0327-9170

On The Generalized Dictatorship of Arrowian Social Welfare Functions, **Studi Economici**, 57, 35-51, 1995

On the Aubin-like Characterization of Competitive Equilibria in Infinite Dimensional Economies, **Rivista di Matematica per le Scienze Economiche e Sociali** 19, 187-213, 1996 (joint with Anna De Simone and Maria Gabriella Graziano)

On a Unifying Approach to Decomposition Theorems of Yosida-Hewitt type, **Annali di Matematica Pura e Applicata** 173, 107-125, 1997 (joint with A. V. Bukhvalov)

Liapunov-Richter Theorem in B-convex Spaces, **Journal of Mathematical Economics** 30, 109-118, 1998, (joint with Anna Avallone)

On the Range of Additive Correspondences, nel volume **Functional Analysis and Economic Theory**, Eds: Y. Abramovich, E. Avgerinos and N. C. Yannelis, Springer Verlag, Berlin, 1998, 47-60. ISBN 3-540-64495-4

The completeness of L_p -spaces in the finitely additive setting and related stories, **Journal of Math. Anal. Appl.** 248, 588-624, 2000 (joint with K.P.S. Bhaskara Rao).

Economisti e matematica, dal 1494 fino al 1969, oltre l'arte del far di conto, **Atti Terzo Convegno Matematica e Cultura**, Venezia 1999, Springer-Italia (joint with Marco Li Calzi).

Chi ha detto che un Matematico non può vincere il Nobel?, **Atti Terzo Convegno Matematica e Cultura**, Venezia 1999, Springer-Italia (joint with Marco Li Calzi).

On the Edgeworth's conjecture in finitely additive economies with restricted coalitions, **Journal of Math. Economics** 36, 219-240, 2001 (joint with Maria Gabriella Graziano).

On a Marinacci uniqueness theorem for measures, **Journal of Mathematical Analysis and Applications** 286, 378-390, 2003 (joint with Anna Avallone).

On a linearity theorem for measures, **Scientiae Mathematicae Japonicae** 60, n.3, 487-500, 2004 (joint with Anna Avallone).

Coalitional economies with public projects, **Social Choice and Welfare** 25, 127-139, 2005 (joint with Anna De Simone and Maria Gabriella Graziano). DOI: 10.1007/s00355-005-0038-2

Positive operators à la Aumann-Shapley on spaces of functions on D-lattices, **Positivity** 10, 701-719, 2006, (joint with Anna Avallone and Paolo Vitolo). DOI: 10.1007/s11117-006-0052-3

On the Aumann-Shapley value, **Positivity** 12, 613-629, 2008 (joint with Camillo Costantini and Paolo Vitolo). DOI: 10.1007/s11117-008-2207-x

Core and equilibria in coalitional asymmetric information economies, **Journal of Math. Economics** 45, 293-307, 2009 (joint with Chiara Donnini and Maria Gabriella Graziano).

Economies with informational asymmetries and limited vetoer coalitions, **Economic Theory**, 45, 147-180, 2010 (joint with Chiara Donnini and Maria Gabriella Graziano). doi:10.1016/j.jmateco.2008.11.001

Core Equivalences for Equilibria Supported by Non-linear Prices, **Positivity**, 17, 621-653, 2013 (joint with Maria Gabriella Graziano), DOI: 10.1007/s11117-012-0195-3

Mixed Markets with Public Goods, **CSEF Working Papers ISSN: 2240-9696**, N. 261, 2010 (joint with Maria Gabriella Graziano and Marialaura Pesce).

On Fairness of Equilibria in Economies with Differential Information, **Theory and Decision**, 76, 573-599, 2014 (joint with Maria Gabriella Graziano and Marialaura Pesce).

DOI 10.1007/s11238-013-9386-z

Oligopoly and cost sharing in economies with public goods, **International Economic Review**, forthcoming (joint with Maria Gabriella Graziano and Marialaura Pesce).