



Contact data

Full Professor

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Biography

- Born December 5, 1942 at Codogno (Italy).
- Italian citizen.
- Doctorate in Mathematics conferred 1970, University of Milan.

Teaching experience and appointments

Employment.

- 1971-73: Research Grant of M.P.I. (Ministero Pubblica Istruzione), University of Milan.
- 1973-78: Research Contract at the University of Milan.
- 1979-81: "Professore Incaricato" (Associate Professor without tenure) at the University of Calabria.
- 1981-83: "Professore Incaricato" at the University of Calabria and Researcher at the University of Milan.
- 1983-85: "Professore Incaricato" and Researcher at the University of Milan.
- 1985-1993: Associate Professor at the University of Milan.
- 1993-1996: Associate Professor at the University of Genoa.
- 1996: Full professor at the University of Calabria first, then at the University of Milan, and finally at the University of Insubria.

Editorships.

- Member of the editorial board of the "Journal of Pure and Applied Algebra", Elsevier.
- Member of the editorial board of the electronic journal "Theory and Applications of Categories" (<http://www.tac.mta.ca>).
- Member of the editorial board of the electronic journal "Homology, Homotopy and Applications" (<http://www.rmi.acnet.ge/hha/>).

Visiting positions.

- 1978-79: Visiting assistant professor at SUNY at Buffalo (USA) (13 months, F.W. Lawvere).
- 1982-83: Visiting Scholar at Macquarie and Sydney Universities (2 months, R. Street and R. Walters).
- 1984-85: Visiting Scholar at Sydney University (2 months, R. Walters).
- 1986-87: Visiting Scholar at Sydney University (2 months, R. Walters).
- 1988: Visiting Scholar at Sydney University (2 months, R. Walters).
- 1988: Visiting at Mount Allison University (3 weeks, R. Rosebrugh),

Dalhousie University (1 week, R. Wood), Quebec University (1 week, A. Joyal).

- 1990: Visiting at Quebec University (1 month, A. Joyal).
- 1991: Visiting Scholar at Sydney University (2 months, G.M. Kelly).
- 1992: Visiting at Louvain-la-Neuve (2 months, F. Borceux)
- 1995: Visiting Scholar at Sydney University (3 months, G.M. Kelly).
- 2001-02: Visiting Scholar at Sydney University (3 months, G.M. Kelly).

International Conferences on Category Theory.

- 1973: Oberwolfach.
- 1973: Florence.
- 1974: Montreal.
- 1978: New York.
- 1979: Puerto Rico (paper presented).
- 1981: Cambridge (UK) (paper presented).
- 1982: Buffalo.
- 1982: Sussex (paper presented).
- 1983: Aarhus (paper presented).
- 1984: Murten.
- 1985: Sussex (paper presented).
- 1985: Bangor.
- 1986: Cambridge (UK) (paper presented).
- 1987: Boulder.
- 1987: Louvain (paper presented).
- 1988: Sussex (paper presented).
- 1989: Bangor (paper presented).
- 1990: Como (organizer).
- 1991: Montreal (invited speaker).
- 1994: Tours (invited speaker, member of the scientific committee).
- 1995: Halifax (invited speaker).
- 1995: Cambridge (UK) (member of the scientific committee).
- 1995: Oberwolfach (Germany) (invited speaker).
- 1997: Montréal (Canada) (invited speaker).
- 1999: Coimbra (Portugal) (paper presented).
- 2000: Como (Italy) (organizer).
- 2002: Toronto (Canada) (invited speaker).

Scholars invited on my research funds.

- J. Bénabou, Parigi
- A. Dold, Heidelberg
- S. Eilenberg, New York
- P.J. Freyd, Filadelfia
- A. Frölicher, Ginevra
- A. Heller, New York
- G. Janelidze, Tbilisi
- A. Joyal, Montréal
- G.M. Kelly, Sydney
- A. Kock, Aarhus
- F.W. Lawvere, Buffalo
- M. Makkai, Montréal
- I. Moerdijk, Utrecht
- R. Paré, Halifax
- A. Pitts, Cambridge (UK)
- J. Rosicky, Brno
- A. Scedrov, Filadelfia

Representative publications

- S. Schanuel, Buffalo
- R.H. Street, Sydney
- R.F.C. Walters, Sydney
- R.J. Wood, Halifax

List of Publications

- (1) (with G.C. Meloni), Costruzione algebrica dello spazio étalé, B.U.M.I. (4) 12 (1975), 192-197.
- (2) Categorie di relazioni, Rend. Sc. Istituto Lombardo (A) 110 (1976), 342-350.
- (3) (with M. Galuzzi), Anelli regolari e topoi, Atti Acad. Sc. Torino 111 (1976-77), 227-231.
- (4) Analisi non-standard e topos, Rend. Ist. Mat. Univ. Trieste 14 (1982), 1-16.
- (5) (with R. Celia Magno), The Free Exact Category on a Left Exact one, Journal Austr. Math. Soc. (A) 33 (1982), 295-301.
- (6) Categorie di frecce parziali, Riv. Mat. Univ. Parma (4) 9 (1983), 281-288.
- (7) (with R. Betti), Cauchy-completion and the Associated Sheaf, Cahier de Top. et Géom. Diff. 23-3 (1982), 243-256.
- (8) (with R. Betti), A Notion of Topology for Bicategories, Cahiers de Top. et Géom. Diff. 24-1 (1983), 19-22. 4 CURRICULUM VITAE (AURELIO CARBONI)
- (9) (with R. Betti, R. Street & R. Walters), Variation through Enrichment, Jour. Pure and Appl. Algebra 29 (1983), 109-127.
- (10) (with S. Kasangian & R. Street), Bicategories of Spans and *Relations, Jour. Pure and Appl. Algebra 33 (1984), 259-267.
- (11) (with R. Street), Order Ideals in Categories, Pacific Journal of Mathematics, 124-2 (1986), 275-288.
- (12) (with S. Kasangian & R. Walters), An Axiomatic for Bicategories of Modules, Jour. Pure and Appl. Algebra 45 (1987), 127-141.
- (13) (with R. Walters), Cartesian Bicategories I, Jour. Pure and Appl. Algebra 49 (1987), 11-32.
- (14) Bicategories of Partial Maps, Cahiers de Top. et Géom. Diff. 28-2 (1987), 111-126.
- (15) (with P. Freyd & A. Scedrov), A Categorical Approach to Realizability and Polymorphic Types, Lecture Notes in Comp. Sc. 298, Springer-Verlag (1987), 23-42.
- (16) Categories of Affine Spaces, Jour. Pure and Appl. Algebra 61 (1989), 243-250.

- (17) Matrices, Relations and Group Representations, *Journal of Algebra* 136, No. 2 (1991), 497-529.
- (18) (with J. Lambek & M.C. Pedicchio), Diagram chasing in Mal'cev Categories, *Jour. Pure and Appl. Algebra* 69 (1991), 271-284.
- (19) (with G. M. Kelly & R. Wood), A 2-categorical Approach to Change of Base and Geometric Morphisms I, *Cahiers de Top. et Géom. Diff.* 32-1 (1991), 47-95.
- (20) (with R. Rosebrugh), Lax Monads, *Jour. Pure and Appl. Algebra* 76(1) (1991), 13-32.
- (21) (with M.C. Pedicchio & N. Pirovano), Internal Graphs and Internal Groupoids in Mal'cev Categories, *CMS Conference Proceedings*, vol 13., (1992), 97—110.
- (22) (with S. Lack & R.F.C. Walters), Introduction to Extensive and Distributive Categories, *Jour. Pure and Appl. Algebra* 84 (1993) 145—158.
- (23) (with S. Mantovani), Elementary Characterizations of Categories of Separated Objects, *Jour. Pure and Appl. Algebra* 89 (1993), 63—92.
- (24) (with G.M. Kelly & M.C. Pedicchio), Some remarks on Mal'cev and Goursat categories, *Applied Categorical Structures* 1 (1993), 1—37.
- (25) (with S. Johnson, R. Street & D. Verity), Modulated Bicategories, *Jour. Pure and Appl. Algebra* 94 (1994), 229—282.
- (26) (with P.T. Johnstone), Connected limits, familial representability and Artin glueing, *Proceedings of CTCS-5, Amsterdam (1993)*, *Math. Structures in Comp. Sci.* 5 (1995), 441—459.
- (27) Some Free Constructions in Realizability and Proof Theory, *Jour Pure and Appl. Algebra* 103 (1995), 117—148.
- CURRICULUM VITAE (AURELIO CARBONI) 5
- (28) (with G. Janelidze), Modularity and Descent, *Jour. Pure and Appl. Algebra* 99 (1995), 255—265.
- (29) (with G. Janelidze), Decidable (= Separable) Objects and Morphisms in Lextensive Categories, *Jour. Pure and Appl. Algebra* 110 (1996), 219—240.
- (30) (with M. Bunge), The Symmetric Topos, *Jour. Pure and Appl. Alg.* 105 (1995), 233—249.
- (31) (with M. Grandis), Categories of Projective Spaces, *Jour. Pure and Appl. Algebra* 110, 241—258 (1996).
- (32) (with G. Janelidze & A.R. Magid), A Note on the Galois Correspondence for Commutative Rings, *Journal of Algebra* 183 (1996), 266—272.

(33) (with G.M. Kelly, G. Janelidze & R. Paré), On localization and stabilization for factorization systems, *Applied Categorical Structures* 5 (1997), 1—58.

(34) (with G.M. Kelly, D. Verity & R. Wood), A 2-categorical Approach to Change of Base and Geometric Morphisms II, *Theory and Applications of Categories*, Vol. 4, 1998, No. 5, 82—136 (<http://www.tac.mta.ca/tac/volumes/1998/n5/n5.ps>).

(35) (with E. Vitale), Regular and Exact Completions, *Jour. Pure and Appl. Alg.* 125, 79—116 (1998).

(36) (with L. Birkedal, G. Rosolini & D.S. Scott), Type Theory via Exact Categories, *Proceedings of the 30th Annual IEEE Symposium on Logic in Computer Science - June 21-24, 1998 - Indianapolis, Indiana - IEEE COMPUTER SOCIETY*, 188—198 (1998).

(37) (with M.C. Pedicchio), A new proof of Mal'cev theorem, *Rendiconti Circolo Matematico Palermo, Serie II, Suppl.* 61, 13—16 (1999).

(38) (with G. Rosolini), Locally cartesian closed exact completions, *Jour. Pure and Appl. Alg.* 154, 103—116 (2000).

(39) (with M.C. Pedicchio & J. Rosicky), Syntactic Characterizations of various classes of Locally Presentable Categories, *Jour. Pure And Appl. Alg.* 161, 65—90 (2001).

(41) (with G. Janelidze), Smash product of pointed objects in lexensive categories.

Work in preparation.

(42) (with G. Janelidze), Boolean Galois Theories.

(43) (with G. Janelidze, G.M. Kelly & S. Lack), Categories of Commutative Algebras without Unit.

(44) (with G. Janelidze), Categories of Commutative Algebras.

Books.

(1) Editor of the italian translation of the book *Conceptual Mathematics*, by F.W. Lawvere & S. Schanuel (1994).

Proceedings.

(1) (with M.C. Pedicchio & G. Rosolini (editors)), *Category Theory (Proceedings of the International Conference in Category Theory, Como, July 1990)*, Springer Lecture Notes in Mathematics 1488 (1991).

(2) (with G. Rosolini & R.F.C. Walters (editors)), *CT2000 (Proceedings of the International Conference in Category Theory, Como, July 2000)*, *Electronic Journal Theory and Applications of Categories* (<http://www.tac.mta.ca>).