

Roberto Giuntini

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Career Summary

2001 – Present Full Professor of Logic and Philosophy of Science, University of Cagliari

- Member of the Panels of the Italian Quality Research Assessment 2011-2014 (2015-2016)
 - Member of the Academic Senate of the University of Cagliari (2012-2014)
 - Head of the Organising Committee of the Biannual Congress of the International Quantum Structures Association in Cagliari (2012)
 - President of the International Quantum Structures Association (2010-2012)
 - Member of the Board of Directors of the Italian Society of Logic and Philosophy of Science (SILFS) (2007-2014)
 - Co-founder of the Applied Logic, History and Philosophy of Science group of the University of Cagliari (since 2007)
 - Director of the PhD Programme on Logic, History, Philosophy and Didactics of Science (2005-2012)
 - Delegate of the Chancellor for E-learning at the University and Member of the Board of Directors of the Telematic University of Sardinia (2005-2006)
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Education and Qualifications

	Abilitazione scientifica nazionale (professore ordinario) in “Logica matematica e matematiche complementari” (settore concorsuale 01/A1)	2014
PhD	Philosophy (Logic), University of Florence	1991
BSc	Philosophy (Logic), University of Florence	1984

Areas of Specialisation

- Logic
 - Philosophy of Science
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Areas of Competence

- Foundations of Physics
 - Theoretical Computer Science
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Memberships

- Affiliate of the Italian Association for Logics and Its Applications, Italian Society of Logics and Philosophy of Science, International Quantum Structures Association
 - Member of the Editorial board of the series “Trends in Logic”
 - Member of the Editorial board of the the “Journal of Mathematics”
 - Member of the Editorial Board of “Logic and Philosophy of Science”
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Recent Research Fellowships / Projects

2012	Visiting Professor, Institute for Logic, Language and Computation, University of Amsterdam
2012	Alexander von Humboldt Fellow, Institute of Philosophy II, Ruhr University Bochum
2010 – Present	Supervisor, Research fellowship on “E-learning and new technologies”, €50,000
2007 – Present	Supervisor, Visiting Professor Program in Logic and Philosophy of Science, €120,000
2008 – 2010	Supervisor, Research fellowship on “Structural Explanation”, €40,000
2005 – 2010	Supervisor, Research fellowship on “Logico-Algebraic Structures of Quantum Computation, €80,000

Prizes

1998	Birkhoff-von Neumann Prize of the “International Quantum Structures Association”
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Personal Details

Languages: Native in Italian, fluent in English, basic skills in German, French and Romanian
Interests include: Classical Music

Appendix

Invited Talks 2005 – Present (full list available on request)

2015 “A new perspective on the effects of a Hilbert space”, Institute for Logic, Language and Computation, Amsterdam
2015 “The logico-algebraic structure of the effects”, CLEA, Free University of Bruxelles, Bruxelles
2013 “Logics and quantum computation”, Indian Institute of Technology, Jodhpur
2012 “From standard quantum logic to the logic of quantum computation”, Institute of Theoretical Physics, University of Cologne
2012 “Sharp and unsharp quantum logics”, Institute for Logic, Language and Computation, Amsterdam
2011 “Algebraic aspect of quantum computation”, Academy of Science, Bratislava
2011 “Logiche quantistiche”, XIV Scuola di Fondamenti di Fisica, Cesena
2011 “Semantics of quantum computational logics”, The Philosophy of Computer Science and Artificial Intelligence, ESF Scientific Network Conference, Azores Islands
2009 “Toffoli and Hadamard gates: an algebraic approach”, Logics Inspired by Quantum Computation, Bloomington, Indiana
2006 “From reversible to irreversible quantum computational logic”, University of Pavia
2005 “The logics of quantum computation: results and open problems”, Foundational Issues in Quantum Theory, ESF Scientific Network Conference, Budapest

Publications – (full list of publications available at <http://scholar.google.it/citations?user=v75cJtkAAAAJ&hl=en>)

Author or co-author of more than 100 scientific publications, among which :

- 4 monographies: Quantum Logic and Hidden Variables, Bibliographisches Institut, Mannheim, 1991; with M.L. Dalla Chiara and R. Greechie, Reasoning in Quantum Theory, Kluwer, Dordrecht, 2004; with M. L. Dalla Chiara and Francesco Paoli, Sperimentare logica, Liguori, Napoli, 2004; with M.L. Dalla Chiara, E. Negri, R. Luciani, From Quantum Information to Musical Semantics, College Publications, London, 2012;
- more than 70 works on international journals, among which 13 on International Journal of Theoretical Physics, 9 on Foundations of Physics, 8 on Studia Logica, 3 on Fundamenta Informaticae, 2 on Soft Computing, 2 on Mathematica Slovaca, 2 on Mathware and Soft Computing, 2 on Fuzzy Sets and Systems, 2 on International Journal of General Systems, , 1 on Communications in Algebra, 1 on Algebra Universalis, 1 on Natural Computing, 1 on Annalen der Physik, 2 on Journal of Logic and Computation, 1 on Journal of Philosophical Logic, 1 on Advanced Science Letters, 1 on Synthese, 1 on International Journal of Quantum Information, 1 on Reports on Mathematical Logic, 1 on Information Sciences;
- 15 papers in Collected works, among which 1 chapter in Handbook of Philosophical Logic; 1 chapter in Encyclopedia of Applied Physics; 1 chapter in Handbook of Quantum Logic.

Bibliometrical Indices:

(calculated with the application “Publish or Perish”, based on “Google Scholar”)

h-index: 21