

DANIELE PORELLO
CURRICULUM VITAE

First name: Daniele
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Area of Specialization: mathematical logic, ontology, proof-theory, substructural logics, philosophical logic, judgment aggregation, social choice theory, philosophy of economics.

Area of Competence: logic, modal logics, description logics, formal semantics, epistemology, social ontology, distributive justice, game theory, decision theory.

Employments	<p>(2021) Associate Professor. DAFIST, University of Genova.</p> <p>(2019 – 2021) Researcher. Consiglio Nazionale delle Ricerche (CNR). Laboratory for Applied Ontology, Institute for cognitive Sciences and Technologies.</p> <p>(2016 – 2018) Assistant professor, Free University of Bolzano-Bozen. (Ricercatore RTD A)</p> <p>(2012 – 2016) Research fellow: Laboratory for Applied Ontology, Institute for Cognitive Science and Technology (ISTC), Italian National Research council (CNR), Trento.</p> <p>(2009 – 2012) Fixed-term researcher: ILLC (Institute for Logic, Language & Computation), Universiteit van Amsterdam. Project: European Science Foundation (ESF) LogICCC: “Computational Foundation of Social Choice”.</p> <p>(2007 – 2008) Postdoc: INRIA (Institute National de Recherche en Informatique et en Automatique), Bordeaux. LaBRI (Laboratoire Bordelaise de Recherche en Informatique).</p>
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Sholarships and awards	<p>Distinguished PC member IJCAI-ECAI 2018 (27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence).</p> <p>Shortlisted for best paper <i>AISC 2015</i> Associazione Italiana di Scienze Cognitive, Torino, November 2015.</p> <p>March 2011: Visiting Scholar, Université Paris Dauphine, LAMSADE (Laboratoire d'Analyse et Modélisation de Systèmes pour l'Aide à la DEcision) Nicolas Maudet. Grant: Algorithmic Decision Theory, Cost Action.</p> <p>November 2010: Visiting Scholar, Equipe SIGNES (LaBRI, Laboratoire Bordelaise de Recherche en Informatique), Bordeaux. Grant: INRIA, SIGNES.</p> <p>Best paper <i>AISC 2008</i> Associazione Italiana di Scienze Cognitive, Torino, November 2008.</p>
Qualifications	<p>French national qualification: <i>Maître de Conférence</i> in: <i>Section 27 - Informatique.</i> <i>Section 72 - Epistémologie, histoire des sciences et des techniques.</i></p> <p>Italian national qualification (ASN) Associate Professor in “Logica, storia e filosofia della scienza” (11/C2), seconda fascia. (2013-2019) e (2019-2029).</p> <p>Italian national qualification (ASN) Associate Professor in “Sistemi di elaborazione delle informazioni” (09/H1), seconda fascia. (2018-2024)</p>
Education	<p>(2003 – 2006) PhD in Philosophy, Università di Genova. PhD Thesis: “Linguistic Applications of Non-Commutative Logics”.</p> <p>(1997 – 2002) Msc in Philosophy (<i>Laurea Magistrale in Filosofia</i>), Università di Genova (110/110 <i>cum laude</i>). Master Thesis: “Logica e Teoria delle Categorie: Aspetti Fondazionali”.</p>

PUBLICATIONS

Journal papers:

- (2020) T. Brouwer, R. Ferrario, D. Porello. Hybrid Collective Intentionality. *Synthese*. <https://doi.org/10.1007/s11229-020-02938-z>
- (2018) D. Porello. Logics for modelling collective attitudes. *Fundamenta Informaticae*. 158(1-3): 239-275.
- (2018) C. Masolo, A. Botti Benevides, and Daniele Porello. The interplay between models and observations. *Applied Ontology*. 13(1): 41-71 (2018).

4. (2017) D. Porello. Judgment aggregation in non-classical logics. *Journal of Applied Non-Classical Logics*, 27(1-2): 106-139.
5. (2016) C. Masolo and D. Porello. Una semantica cognitiva per i linguaggi predicativi. *Sistemi Intelligenti*, 2-3/2016: 255-276.
6. (2016) D. Porello. Single-peakedness and semantic dimensions of preferences. *Logic Journal of IGPL*, 24(4): 570-583.
7. (2015) D. Porello and N. Troquard. Non-normal Modalities in Variants of Linear Logic. *Journal of Applied Non-Classical Logics*, 25(3): 229-255.
8. (2014) D. Porello and U. Endriss. Ontology Merging as Social Choice: Judgment Aggregation under the Open World Assumption. *Journal of Logic and Computation*, 24 (6): 1229-1249.
9. (2013) V. Ottonelli and D. Porello. On the Elusive Notion of Meta-Agreement. *Politics, Philosophy & Economics*, 12 (1): 68-92.
10. (2012) D. Porello. Logic in Social Choices. *Cognitive Systems*, 7 (3): 305-315.
11. (2012) U. Endriss, U. Grandi, and D. Porello. Complexity of Judgment Aggregation. *Journal of Artificial Intelligence Research*, 45:481-514.
12. (2012) D. Porello. Incompatibility Semantics from Agreement. *Philosophia*, 40 (1):99-119.
13. (2010) D. Porello. Ranking Judgments in Arrow's Settings, *Synthese*, 173: 199-210.
14. (2010) D. Porello. Logica, preferenze e deliberazione. Un modello logico dei processi deliberativi. *Sistemi Intelligenti*, Anno XXII, n.1, Aprile 2010, 49-64.
15. (2009) D. Porello. La necessità di un'isola, *Philosophical Readings*, I,1 pp. 5-45 (invited paper). <http://philosophicalreadings.files.wordpress.com/2011/12/pr12009.pdf>.
16. (2007) D. Porello. Deductive and Grammatical Competence: Type Logical Remarks on Nesting Phenomena. *Epistemologia. Rivista Italiana di Filosofia della Scienza*, 30, (2), 281-306.

Proceedings:

17. L. Biccheri, R. Ferrario, D. Porello. Needs and Intentionality. *Formal Ontology in Information Systems: Proceedings of the 11th International Conference (FOIS 2020)*. Vol. 330. IOS Press, 2020. In press.
18. C. Masolo, L. Vieu, R. Ferrario, S. Borgo, D. Porello. Needs and Intentionality. *Formal Ontology in Information Systems: Proceedings of the 11th International Conference (FOIS 2020)*. Vol. 330. IOS Press, 2020. In press.
19. R. Confalonieri, P. Galliani, O. Kutz, D. Porello, G. Righetti, N. Troquard. Towards Even More Irresistible Axiom Weakening. *Proceedings of the 33rd International Workshop on Description Logics (DL 2020) co-located with the 17th International Conference on Principles of Knowledge Representation and Reasoning (KR 2020), Online Event [Rhodes, Greece], September 12th to 14th, 2020*. CEUR Workshop proceedings.
20. P. Galliani, G. Righetti, O. Kutz, D. Porello, N. Troquard. Perceptron Connectives in Knowledge Representation. *Knowledge Engineering and Knowledge Management - 22nd International Conference, EKAW 2020, Bolzano, Italy, September 16-20, 2020, Proceedings*. Lecture Notes in Computer Science, 12387. 183-193

21. D. Porello, G. Guizzardi, T. Prince Sales, G. C. M. Amaral. A Core Ontology for Economic Exchanges. *Conceptual Modeling - 39th International Conference, ER 2020, Vienna, Austria, November 3-6, 2020, Proceedings*. Lecture Notes in Computer Science, 12400. 364-374
22. G. C. M. Amaral, T. Prince Sales, G. Guizzardi, J. P. A. Almeida, D. Porello. Modeling Trust in Enterprise Architecture: A Pattern Language for ArchiMate. *The Practice of Enterprise Modeling - 13th IFIP Working Conference, PoEM 2020, Riga, Latvia, November 25-27, 2020, Proceedings*. Lecture Notes in Business Information Processing, 400. 73-89.
23. C. M. Fonseca, D. Porello, G. Guizzardi, J. P. A. Almeida, N. Guarino. Relations in Ontology-Driven Conceptual Modeling. In *38th International Conference on Conceptual Modeling (ER) (2019)*. 28-42.
24. P. Galliani, O. Kutz, D. Porello, G. Righetti, N. Troquard: On Knowledge Dependence in Weighted Description Logic. In *Proceedings of the 5th Global Conference on Artificial Intelligence, Bozen/Bolzano, Italy, 17-19 September 2019 GCAI 2019*. 68-80.
25. G. Righetti, P. Galliani, O. Kutz, D. Porello, C. Masolo, N. Troquard: Weighted Description Logic for Classification Problems. In *Proceedings of the 5th Global Conference on Artificial Intelligence, Bozen/Bolzano, Italy, 17-19 September 2019 GCAI 2019*. 108-112.
26. N. Guarino, D. Porello, G. Guizzardi. On Weak Truthmaking. In *Proceedings of the Joint Ontology Workshops 2019 Episode V: The Styrian Autumn of Ontology, Graz, Austria, September 23-25, 2019*. CEUR Workshop Proceedings 2518.
27. D. Porello, O. Kutz, G. Righetti, N. Troquard, P. Galliani, C. Masolo: A Toothful of Concepts: Towards a Theory of Weighted Concept Combination. In *Description Logics 2019*.
28. G. Guizzardi, C. Fonseca, A. B. Benevides, J. Almeida, D. Porello, T. Sales. Endurant types in ontology-driven conceptual modeling: Towards OntoUML 2.0. In *37th International Conference on Conceptual Modeling (ER) (2018)*. 136-150.
29. D. Porello and G. Guizzardi. Towards an ontological modelling of preference relations. In *AI*IA 2018 Advances in Artificial Intelligence - XVII International Conference of the Italian Association for Artificial Intelligence*. 152-165.
30. R. Ferrario, C. Masolo and D. Porello. Organisations as complex variable embodiments. In *FOIS 2018, 10th International Conference on Formal Ontology in Information Systems, Cape Town, 17th-21th September 2018*. 127-140.
31. Claudio Masolo and Daniele Porello. Representing Concepts by Weighted Formulas. In *FOIS 2018, 10th International Conference on Formal Ontology in Information Systems, Cape Town, 17th-21th September 2018*. 55-68.
32. T. Prince Sales, D. Porello, G. Guizzardi, J. Mylopoulos and N. Guarino. Ontological Foundations of Competition. In *FOIS 2018, 10th International Conference on Formal Ontology in Information Systems, Cape Town, 17th-21th September 2018*. 96-109.
33. O. Kutz, N. Troquard, M. Hedblom, D. Porello. The Mouse and the Ball - Towards a Cognitively-Based and Ontologically-Grounded Logic of Agency. In *FOIS 2018, 10th International Conference on Formal Ontology in Information Systems, Cape Town, 17th-21th September 2018*. 141-148. .
34. D. Porello. A logic for reasoning about group norms. In *Proceedings of the 14th International Conference on Deontic Logic and Normative Systems 3-6 July 2018, Utrecht (DEON 2018)*. 301-315.
35. D. Porello, N. Troquard, R. Pealozza, R. Confalonieri, P. Galliani, O. Kutz: Two Approaches to

Ontology Aggregation Based on Axiom Weakening. In *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence, IJCAI 2018, July 13-19, 2018, Stockholm, Sweden*: 1942-1948.

36. (2018) N. Troquard, R. Confalonieri, P. Galliani, R. Peñaloza, D. Porello, O. Kutz. Repairing Ontologies via Axiom Weakening. In *Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI-2018), New Orleans, Louisiana, USA, February 2-7 2018*.
37. (2017) D. Porello and G. Guizzardi. Towards a First-Order Modal Formalisation of the Unified Foundational Ontology. *2nd Workshop on Foundational Ontology (FOUST). The Joint Ontology Workshops. Episode III: The Tyrolean Autumn (JOWO 2017)*. To appear.
38. (2017) D. Porello and G. Guizzardi. Towards a Cognitive Semantics of Types. In *AI*IA 2017 Advances in Artificial Intelligence - XVIth International Conference of the Italian Association for Artificial Intelligence, Bari, Italy, November 14-17, 2017. Proceedings*. pp. 428-440.
39. (2017) D. Porello, N. Troquard, R. Confalonieri, P. Galliani, O. Kutz, R. Peñaloza. Repairing Socially Aggregated Ontologies Using Axiom Weakening. *PRIMA 2017: Principles and Practice of Multi-Agent Systems - 20th International Conference, Nice, France, October 30 - November 3, 2017. Proceedings*. pp. 441-449.
40. (2017) R. Confalonieri, O. Kutz, P. Galliani, R. Peñaloza, D. Porello, M. Schorlemmer, N. Troquard. Coherence, Similarity, and Concept Generalisation. *Proceedings of the 30th International Workshop on Description Logics, Montpellier, France, July 18-21, 2017*.
41. (2016) C. Masolo and D. Porello. Understanding predication in conceptual spaces. In *FOIS 2016, 9th International Conference on Formal Ontology in Information Systems, 6th-9th July 2016*. IOS Press. pp. 139–152.
42. (2016) E. Sanfilippo, S. Borgo, C. Masolo, D. Porello. Features and Components in Product Structure Models. In *FOIS 2016, 9th International Conference on Formal Ontology in Information Systems, 6th-9th July 2016*. IOS Press. 227–240.
43. (2015) C. Masolo and D. Porello. A note on the representation of relations in conceptual spaces. In *Proceedings of AISC 2015 (Italian Society for Cognitive Science. 10-12 December 2015)*, NeaScience , Anno 2, Volume 9, 117-121.
44. (2015) D. Porello. Majoritarian Group Actions. In *Principles and Practice of Multi-Agent Systems - 18th International Conference, Bertinoro, Italy, October 26-30, 2015. Lecture Notes in Computer Science*. Vol. 9387. Springer. pp. 416-432.
45. (2015) R. Ferrario and D. Porello. Towards a conceptualization of socio-material entanglement. In *The Ninth International and Interdisciplinary Conference on Modeling and Using Context, CONTEXT 2015* November. 32–46.
46. (2015) D. Porello. Modelling equivalent definitions of concepts. In *The Ninth International and Interdisciplinary Conference on Modeling and Using Context, CONTEXT 2015*, November. 506–512.
47. (2015) C. Masolo and D. Porello. A cognitive view of relevant implication. In *Proceedings of the 3rd International Workshop on Artificial Intelligence and Cognition, Turin, Italy, September 28-29, 2015. CEUR Workshop Proceeding 1510*. pp. 40-53.
48. (2015) D. Porello, M. Cristani, and R. Ferrario. Integrating Ontologies and Computer Vision for Classification of Objects in Images. In *Workshop on Neural-Cognitive Integration. KI 2015, the 38th German Conference on Artificial Intelligence*.
49. (2015) E. Sanfilippo, C. Masolo, and D. Porello. Design Knowledge Representation. In *Proceed-*

- ings of the 1st Workshop on Artificial Intelligence and Design. A workshop of the XIV International Conference of the Italian Association for Artificial Intelligence (AI*IA 2015). September 2015. CEUR Workshop Proceedings. pp. 41-54.*
50. (2014) D. Porello. Logics for Collective Reasoning. In *Proceedings of the European Conference on Social Intelligence (ECSI 2014)*. November. pp. 148-159.
 51. (2014) E. Bottazzi, C. Masolo, e D. Porello. Old and New Riddles about Concept Sharing. In *Proceedings of the European Conference on Social Intelligence (ECSI 2014)*. November. pp. 16-27.
 52. (2014) D. Porello, E. Bottazzi, e R. Ferrario. The Ontology of Group Agency. In *8th International Conference on Formal Ontology in Information Systems (FOIS 2014)*. IOS Press. pp. 183-196.
 53. (2014) S. Borgo, D. Porello, e N. Troquard. Logical Operators for Ontological Modeling. In *8th International Conference on Formal Ontology in Information Systems (FOIS 2014)*. IOS Press. pp. 23-36.
 54. (2014) D. Porello e N. Troquard. A resource-sensitive logic of agency. In *Proceedings of the 21st European Conference on Artificial Intelligence (ECAI-2014), August 2014*. pp. 723-728.
 55. (2014) D. Porello and N. Troquard. A resource-sensitive account of the use of artifacts. In *Proceedings of the 13th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS'14), May 2014*. IFAAMAS, 2014.1549-1550.
 56. (2013) D. Porello, F. Setti, R. Ferrario, and M. Cristani. Multiagent Socio-Technical Systems. An Ontological Approach. In *Proceedings of the 15th International Workshop on Coordination, Organisations, Institutions and Norms (COIN 2013), AAMAS 2013*, LNCS Proceedings. 42-62.
 57. (2013) D. Porello. A Proof-Theoretical View of Collective Rationality. In *Proceedings of the 23rd International Joint Conference of Artificial Intelligence (IJCAI 2013)*. August 2013.
 58. (2013) F. Setti, D. Porello, R. Ferrario, S. A. Abdulkhak, and M. Cristani. “Tell me more”: how semantic technologies can help refining internet image search. In *Proceedings of the International Workshop on Video and Image Ground Truth in Computer Vision Applications (VIGTA '13)*. July 2013.
 59. (2013) D. Porello, R. Ferrario, C. Giorgetta. Ontological modeling of emotion-based decisions. In *Proceedings the 1st Workshop of Formalizing Mechanisms for Artificial General Intelligence and Cognition (FormalMAGIC 2013)*. August 2013.
 60. (2013) D. Porello. Deliberating About Voting Dimensions. In *Proceedings of the 12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-2013), May 2013*. 1265-1266.
 61. (2012) D. Porello. The Consistency of Majority Rule. In *Proceedings of the 20th European Conference on Artificial Intelligence (ECAI-2012)*, Montpellier, August 2012. 921-922.
 62. (2011) D. Porello. Giustificazioni pubbliche e modelli di giustizia distributiva. *Proceedings of AISC (Associazione Italiana Scienze Cognitive)*, Milan, December 2011.
 63. (2011) D. Porello and U. Endriss. Ontology Merging as Social Choice. In *Proceedings of the 12th International Workshop on Computational Logic in Multiagent Systems (CLIMA-2011)*, July 2011. 157-170.
 64. (2011) S. Airiau, U. Endriss, U. Grandi, D. Porello and J. Uckelman. Aggregating Dependency Graphs into Voting Agendas in Multi-Issue Elections. In *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI-2011)*, July 2011. 18-23.

65. (2010) U. Endriss, U. Grandi and D. Porello. Complexity of Winner Determination and Strategic Manipulation in Judgment Aggregation. In *Proceedings of the 3rd International Workshop on Computational Social Choice (COMSOC-2010)*, University of Düsseldorf, September 2010.
66. (2010) D. Porello and U. Endriss. Modelling Multilateral Negotiation in Linear Logic. In *Proceedings of the 19th European Conference on Artificial Intelligence (ECAI-2010)*, August 2010. 381-386.
67. (2010) D. Porello and U. Endriss. Modelling Combinatorial Auctions in Linear Logic. In *Proceedings of the Twelfth International Conference on the Principles of Knowledge Representation and Reasoning, Toronto, Canada, May 9-13, 2010 (KR-2010)*, May 2010.
68. (2010) U. Endriss, U. Grandi and D. Porello. Complexity of Judgment Aggregation: Safety of the Agenda. In *Proceedings of the 9th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2010)*, May 2010. 359-366.
69. (2009) D. Porello. Logic and Pragmatics. In *Proceedings of TAP-2009 (Towards an Analytic Pragmatism)*, C. Amoretti, C. Penco, F. Pitto (eds), CEUR-Workshop Proceedings, Vol-444.
70. (2009) D. Porello. Dimensioni di Voto e Coerenza. In *Proceedings of AISC 2009 (Italian Society of Cognitive Science)*, Napoli.
71. (2007) D. Porello. Aggregation of Ranking Judgements and Arrow's Theorem. In *A Meeting of the Minds. Proceedings of Workshop on Logic, Rationality and Interaction, Beijing, 2007*, J. van Benthem, Shier Ju and F. Veltman, (eds.), Text in Computer Science 8, College Publication, London, 2007. 201-212.

Book chapters:

72. (2017) D. Conigliaro, R.Ferrario, C. Hudelot and D. Porello. Integrating Computer Vision Algorithms and Ontologies for Spectator Crowd Behavior Analysis ". in *Group and Crowd Behavior for Computer Vision*, M. Vittorio, M. Cristani, S, and S.. Savarese (eds) Academic Press, 2017 pp. 297-319.
73. (2016) D. Porello. On the Quality of Collective Decisions in Sociotechnical Systems: Transparency, Fairness, and Efficiency. In *New Frontiers in the Study of Social Phenomena*. Springer International Publishing, 2016. 153-167.
74. (2015) D. Porello, E. Bottazzi, e R. Ferrario. Group Conflict as Social Contradiction. In *Conflict and Multimodal Communication Social Research and Machine Intelligence. Series: Computational Social Sciences*. D'Errico, F., Vinciarelli, A., Poggi, I., Vincze, L. (Ed.). Springer 2015, XIV. In corso di stampa.
75. (2012) D. Porello. Reasoning about Multiagent Resource Allocation in Linear Logic. In *Logic and Interactive Rationality (LIRA) Yearbook 2011*, Amsterdam.
76. (2010) C. Penco and D. Porello. Sense and Proofs. In *New Essays in Logic and Philosophy of Science*, Marcello D'Agostino, Giulio Giorello, Federico Laudisa, Telmo Pievani and Corrado Sinigaglia (eds), College Publications, London.
77. (2010) D. Porello. Logic in Social Choices. In M. Cruciani (ed) *Practices of Cognition. Recent Researches in Cognitive Sciences*. Trento: Università degli Studi di Trento.
78. (2008) D. Porello. Linguistic Applications of Non-Commutative Logic. In C. Casadio, J. Lambek (eds), *Computational Algebraic Approaches to Natural Language*, Polimetrica, 2008. 213-232.

Other:

79. (2012) E. Biale e D. Porello. Decisioni democratiche tra deliberazione e negoziazione. *Laboratorio di Politica Comparata e Filosofia Pubblica* (LPF), Working Paper WP-LPF 6/12.
80. (2008) D. Porello. A Translation of Discursive Dilemma into Condorcet's Paradox. In *Volume of Abstracts 6th European Congress of Analytic Philosophy*, Jagiellonian University, Institute of Philosophy, 21–26 August, Krakow, Poland. (Abstract)
81. (2007) D. Porello. Categorical Basis of Metaphysics. In *Handbook of Universal Logic*, Xi An. (Abstract)

Editorship:

82. S. Borgo, O. Kutz, F. Loebe, F. Neuhaus, K. Adrian, M. Antovic, V. Basile, M. Boeker, D. Calvanese, T. Caselli, G. Colombo, R. Confalonieri, L. Daniele, J. Euzenat, A. Galton, D. Gromann, M. Hedblom, H. Herre, I. Hinterwaldner, A. Janes, L. Jansen, K. Krois, A. Lieto, C. Masolo, R. Pealozza, D. Porello, D. P. Radicioni, E. M. Sanfilippo, D. Schober, R. Stufano, A. Vizedom. *Proceedings of the Joint Ontology Workshops 2017 Episode 3: The Tyrolean Autumn of Ontology, Bozen-Bolzano, Italy, September 21-23, 2017*. CEUR Workshop Proceedings 2050, CEUR-WS.org 2018
83. (2017) D. Dell'Aglio, D. Anicic, P. M. Barnaghi, E. Della Valle, D. L. McGuinness, L. Bozzato, T. Eiter, M. Homola, D. Porello. *Joint Proceedings of the Web Stream Processing workshop (WSP 2017) and the 2nd International Workshop on Ontology Modularity, Contextuality, and Evolution (WOMoCoE 2017) co-located with 16th International Semantic Web Conference (ISWC 2017), Vienna, Austria, October 22nd, 2017*. CEUR Workshop Proceedings 1936, CEUR-WS.org 2017

Reviews:

84. (2006) C. Penco (ed), *La svolta contestuale*, McGraw-Hill, Milano 2002. *Epistemologia. Rivista Italiana di Filosofia della Scienza*, 29 (2). (con D. Palladino)
85. (2006) A. Varzi, J. Nolt, D. Rohatyn, *Logica*, Mc Graw-Hill Italia, Milano, 2004. *Epistemologia (ibidem)*. (con D. Palladino)
86. (2006) M. Carrara e P. Giaretta (ed), *Filosofia e Logica*, Rubbettino, Catanzaro, 2004. *Epistemologia (ibidem)*. (con D. Palladino)
87. (2006) P. Casalegno e M. Mariani, *Teoria degli insiemi. Un'introduzione*, Carocci, Roma, 2004. *Epistemologia (ibidem)*. (con D. Palladino)

Didactics and popularization:

88. (2017) D. Porello. La logica dei giudizi collettivi. *Archimede. Rivista per gli insegnanti e i cultori di matematiche pure ed applicate*. Anno LXIX. Aprile-Giugno 2017.
89. (2009) Encyclopedia *Le parole della filosofia contemporanea*, Luciano Floridi, Gian Paolo Teravecchia (eds), Carocci, Roma. Entries: Algebra della logica, Argomento Ontologico, Autoreferenzialità, Categorematico/Sincategorematico, Comprensione ed Estensione, dimostrazione, Doppia Negazione, Estensione, Forma Logica, Formalismo, Induzione Matematica, Logica

Lineare, Logica Paraconsistente, Metateoria, Metodo Assiomatico, Operatori Estensionali-Intensionali, Sinn-Bedeutung, Teorema di Church.

90. (2007) *La Filosofia del Dr House. Etica, logica ed epistemologia di un eroe televisivo*, Ponte alle Grazie, Milano, 2007, M. Amoretti, D. Porello, C. Testino, S. Regazzoni. In particular, the Chapter: “La logica di House” pp. 132-178.

TEACHING ACTIVITY

Tutorials at international venues:

- Formal Ontological Analysis and Knowledge Representation (FOAKR). *17th International Conference of the Italian Association for Artificial Intelligence*, Trento.
- 2018: “Introduction to judgment aggregation” *European Agent Systems Summer School*. Maastricht.
- 2018: “Introduction to the logics of agency” *European Agent Systems Summer School* (with N. Troquard). Maastricht.
- 2010: Tutorial “Proofs, Games and Dialogues”, Workshop: *Dialogues and Games: Historical Roots and Contemporary Models*, Lille, February

Courses:

- 2020: “Introduction to Game Theory” Doctoral School on Computer Science, Libera Università di Bolzano.
- 2019: “Introduction to Game Theory” Doctoral School on Computer Science, Libera Università di Bolzano.
- 2018: “Formal languages and compilers” (Labs), Libera Università di Bozen-Bolzano
- 2018: “Introduction to Game Theory” Doctoral School on Computer Science, Libera Università di Bolzano.
- 2017: “Discrete Mathematics and Logic” (Labs), Libera Università di Bozen-Bolzano.
- 2017: “Data Structures and Algorithms”, (Labs), Libera Università di Bozen-Bolzano.
- 2017: “Introduction to Game Theory” Doctoral School on Computer Science, Libera Università di Bolzano.
- 2016: “Introduzione alla Logica Modale” (Codocenza) Università di Genova.
- 2016: “Introduction to Multiagent Systems for Robotics” (with S. Borgo), Doctoral School on Information and Communication Technology, Università di Trento.
- 2016: “Introduction to Game Theory” Doctoral School on Computer Science, Libera Università di Bolzano.
- 2016: “Introduction to Game Theory” Doctoral School on Information and Communication Technology, Università di Trento.
- 2015: “Introduzione alla Logica Modale” (Codocenza) Università di Genova.
- 2015: “Ontologies for Computer Vision” (con M. Cristani e R. Ferrario). Doctoral School on Information and Communication Technology, Università di Trento.
- 2013: “Tutorial on Social Choice Theory in Computer Science” , ISTC, Trento, July, 2013.
- 2012: “Preferenze, giudizi e deliberazione: modelli di scelta sociale”. PhD in Philosophy, Università di Padova.

- 2011: “Logic programming and search techniques” Bachelor in Artificial Intelligence (BSc) (University of Amsterdam).
- 2011: “Normative Foundations and Mathematical Modelling of Egalitarian and Utilitarian Welfare”. Master of Logic (MSc), ILLC, University of Amsterdam.
- 2010: Tutorial “Logical Themes in Welfare Economics”. Introduction to the research topics of the Institute for Logic, Language and Computation, *LoLaCo*, University of Amsterdam, November.
- 2009: “Modern Classics in Social Choice”. Master of Logic (MSc), ILLC, University of Amsterdam,
- 2006-2007: Exercise class (Teaching assistant) for “Logica” and “Logica Matematica” Prof. D. Palladino, Università di Genova.
- 2005: “Elementi di Logica”, Master in Scienze Cognitive, Università di Genova.
- 2004-2005: Exercise class (Teaching assistant) for “Logica” and “Logica Matematica” Prof. D. Palladino, Università di Genova.
- 2003-2004: Exercise class (Teaching assistant) for “Logica” and “Logica Matematica” Prof. D. Palladino, Università di Genova.

Student supervision:

- 2016: Master Thesis (Co-relatore), Laurea magistrale in Filosofia, Università di Genova. Luca Bobbio “Ragionamento e complessità computazionale. Un approccio informazionale al ragionamento sillogistico”.
- 2011: Bachelor Thesis in Mathematics (BSc), University of Amsterdam, Sanne Kosterman “Bargaining solutions in multi-agents resource allocation problems”.
- 2011: Individual project, Master of Logic (MSc), ILLC, University of Amsterdam: “Counterfactual Analysis of Newcomb Paradox” (6 ECTS), Student: Bruno Jacinto.
- 2011: Individual project, Master of Logic (MSc), ILLC, University of Amsterdam: “On the Meaning of Logical Rules” (6 ECTS). Student: Leo Dubois.
- 2010: Master Thesis: Master of Logic (MSc) (with Ulle Endriss), ILLC, University of Amsterdam: Kian Mintz Woo “Independence in Judgment Aggregation”.
- 2009: Master Thesis (Co-relatore), Laurea magistrale in Filosofia, Università di Genova. Samuele Dellepiane: “Il teorema di Arrow e le teorie normative della democrazia”.

RESEARCH PROJECT

Principal Investigator:

- *Social Evaluation of Concepts (SECO)* (2017-2019). (Research Funds: Free Univeristy of Bozen-Bolzano).
- *Coherence and Explanation (CREED)* (2017 - 2018). (Research Funds: Free Univeristy of Bozen-Bolzano).

- *The Logic of Image Schemas (LOGIS)* (2016 - 2018). (Research Funds: Free University of Bozen-Bolzano).

Member of research project:

- (2012 – 2015) VISCOSO: “Detection of crisis in socio-material systems via visual-cognitive-social processes” (R. Ferrario).
- (2012 – 2015): COST action: Computational Social Choice.
- (2009 – 2012) LogICCC, Eurocores, “Computational foundations of social choice” (U. Endriss).
- (2007 – 2008) Equipe SIGNES (INRIA Sud Ouest) (C. Retoré).
- (2005 – 2007) PRIN “Architecture of theoretical and practical knowledge. A critical inquiry on the concepts of belief, truth and rational justification” (R. Egidi).
- (2003 – 2005) PRIN “Representing and inferring. A study of mental processes from the point of view of analytical philosophy and cognitive science” (C. Penco).

Organiser of:

- (2018) 1st International Workshop on Ontology of Economics (ONTOECONOMICS 2018). Joint Ontology Workshops JOWO - 2018 @ FOIS 2018 Cape Town. (JOWO 2018).
- (2018) 2nd International Workshop on Epistemology in Ontologies (EPINON 2018). Joint Ontology Workshops JOWO - 2018 @ FOIS 2018 Cape Town. (JOWO 2018).
- (2017) 1st International Workshop on Epistemology in Ontologies (EPINON 2017). Joint Ontology Workshops JOWO - 2017. Episode III: The Tyrolean Autumn. (JOWO 2017).
- 2nd International Workshop on Ontology Modularity, Contextuality, and Evolution (WoMoCoE 2017) at the 16th International Semantic Web Conference ISWC 2017.
- (2015) Workshop “Formal Ontology for Artificial Intelligence” at IJCAI 2015 (International Joint Conference of Artificial Intelligence).
- (2014) Workshop “Ragionamento collettivo e modelli di democrazia”. Torino, November.
- (2011) Amsterdam Graduate Philosophy Conference, December.
- (2010) Workshop “Dialogue and Games: Historical Roots and Contemporary Model”. Lille, January.

SERVICE TO THE COMMUNITY

PC member of: KR (Principle of Knowledge Representation and Reasoning), AAAI (Conference of the Association for the Advancement of Artificial Intelligence) IJCAI (International Joint Conference of Artificial Intelligence), AAMAS (Autonomous Agents and Multi-agents Systems), LAAMAS (Workshop on Logical Aspects of Multi-Agent Systems) LOFT (Logic and foundation of Game Theory) ESSLII Workshop on Logical Models of Group Decision Making 2013, KEOD (International conference of Knowledge Engineering and Ontology Development) AISC (Italian Association of Cognitive Science), AGPC (Amsterdam Graduate Philosophy Conference).

Referee for conferences: Principles of Knowledge Representation and Reasoning (KR), Non-Monotonic Reasoning (NMR), European Conference on Artificial Intelligence (ECAI), European Conference on Logics in Artificial Intelligence (JELIA), Conference on Artificial Intelligence (AAAI), Algorithmic Decision Theory (ADT).

Referee for journals: Applied Ontology; Argumenta – Journal of Analytical Philosophy; Artificial Intelligence; Dialectica, Journal of Applied Non-Classical Logics; Journal of Logic and Computation; Journal of Logic, Language and Information; Mathématiques et Sciences Humaines; Neurocomputing; Sistemi Intelligenti; Synthese; Transaction of Edutainment.

Referee for ESF (European Science Foundation) 2010-2012 and 2016-2018.

Member of the PhD committess:

2018: Ivan Donadello: “Semantic Image Interpretation Integration of Numerical Data and Logical Knowledge for Cognitive Vision” Università di Trento.

2011: Giacomo Turbanti: “Explicit Normativity. The Logic of Brandom’s Scorekeeping”. Università di Pisa, Scuola Normale Superiore.

PhD student delegate, Università di Genova (2003-2006).

Affiliations: IAOA (International Association for Applied Ontology), SIFA (Società Italiana di Filosofia Analitica), SILFS (Società Italiana di Logica e Filosofia della Scienza), ESAP (European Society of Analytic Philosophy), AI*IA (Associazione Italiana per l’Intelligenza Artificiale), AILA (Associazione Italiana di Logica e Applicazioni), SCW (Society for Social Choice and Welfare), ASL (Association for Symbolic Logic).

Languages: Italian, English (excellent, level C1), French (basic), German (basic).