



UNIVERSITÀ DI PAVIA

CURRICULUM VITAE

FEBRUARY, 2023

PERSONAL:

Lorenzo Magnani*

Affiliation:

Full Professor

(Ret.)

Director, Computational Philosophy Laboratory

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University of Pavia,

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magnani.lorenzo@alice.it, lmagnani8@gmail.com

EDUCATION:

Degree in Philosophy, University of Pavia, 1976. Thesis: *Epistemological and historical analysis of the first construction of non Euclidean geometries*. Magna cum laude.

Specialization in Philosophy (equivalent to the current Ph.D. degree), University of Pavia, 1980. Dissertation: *From the epistemology of rational reconstruction to the epistemology of change*. Magna cum laude.

Area of Specialization: Philosophy of Science/Logic/Philosophy of Cognitive Science.

Areas of Competence: Epistemology; Science, Technology, and Human Values; Abductive Reasoning; Philosophy of Computing; Critical Thinking; Non-standard Logics; Philosophy of Medicine; History and Philosophy of Geometry; Violence, Morality and Religion.

*Phone: +39-0382-986283, +39-0382-986279; cell Phone +39-340-2888768. Born: July 14, 1952, Nationality: Italian, Married, Children: 2.

ACADEMIC APPOINTMENTS:

Current Position

2001 - **current, Professor**, Department of Humanities, Philosophy Section, University of Pavia.

2014-2015; 2019 - **current, Professor**, PhD Program in Philosophy FINO, University of Pavia, University of Turin, University of Genoa, University of Vercelli.

2003-2013, **Professor**, PhD Program in Philosophy, University of Pavia.

Previous positions

1991 - 1999, **Adjunct Professor of Logic**, Department of Philosophy, University of Pavia.

1996 - 1999, **Adjunct Professor of Epistemology**, Department of Philosophy, University of Pavia.

1980 - 2000, **Research Professor**, full-time, with security of tenure, Department of Philosophy, University of Pavia.

1978 **Lecturer**, Istituto di Filosofia, University of Pavia.

1976 **Instructor**, Istituto di Filosofia, University of Pavia.

Previous Visiting Positions

2009-2012 **Visiting Professor**, Department of Philosophy, Sun Yat-sen University, Guangzhou (Canton), P.R.China.

2005-2008 **Visiting Professor**, Department of Philosophy, Sun Yat-sen University, Guangzhou (Canton), P.R.China.

2003-2004 **Weissman Distinguished Visiting Professor**, (Course PHI 3990 - **Special Studies in Philosophy: Philosophy of Science**, Fall semester) Department of Philosophy, Baruch College, The City University of New York, New York, NY, USA.

2002-2003 **Visiting Professor**, (Course PST4147 - **Perspectives on Science and Technology**, Fall semester, Course PST4903, **Special Problems - Mathematical Logic**, Fall Semester) Philosophy, Science, and Technology Program, School of Public Policy and College of Computing, Georgia Institute of Technology, Atlanta, USA.

2000 **Visiting Professor** (Course PST3105 - **Ethical Theories**, Spring semester , Courses PST3127 B and C - **Science, Technology, and Human Values**, Fall semester) Philosophy, Science, and Technology Program, School of Public Policy and College of Computing, Georgia Institute of Technology, Atlanta, USA.

1999-**Visiting Professor** (Course PST3115 - **Philosophy of Science**) Philosophy, Science, and Technology Program, School of Public Policy and College of Computing, Georgia Institute of Technology, Atlanta, USA.

1999 **Visiting Professor** (in residence), College of Computing, Georgia Institute of Technology, Atlanta, GA, USA.

1998 **Visiting Professor** (in residence), College of Computing, Georgia Institute of Technology, Atlanta, GA, USA.

1995 **Visiting Professor** (in residence), College of Computing, Georgia Institute of Technology, Atlanta, GA, USA.

1993 **Visiting Professor**, Laboratory of Cognitive Studies in Medicine, Centre for Medical Education, McGill, University, Montreal, Quebec, Canada.

1993 **Visiting Professor** (in residence), Department of Philosophy, University of Waterloo, Ontario, Canada (March 3-25, 1993).

1992 **Visiting Professor**, Laboratory for Computational Linguistics (LCL), Department of Philosophy, Carnegie Mellon University, Pittsburgh, PA, USA.

1992 **Visiting Professor**, Laboratory of Cognitive Studies in Medicine, Centre for Medical Education, McGill University, Montreal, Quebec, Canada.

AWARDS

LAUREA HONORIS CAUSA

Doctor Honoris Causa of "Stefan Cel Mare" University for his seminal interdisciplinary works in computational philosophy, logic and philosophy of science, semiotics and ethics, Suceava, Romania, March 16, 2012.

ELECTED FULL MEMBER

Académie Internationale de Philosophie des Sciences (AIPS) 2015-2019 member; 2019-current, full member-.

AWARD IN THE EVENT OF THE 50TH ANNIVERSARY OF THE RE-BUILDING OF THE PHILOSOPHY DEPARTMENT OF SUN YAT-SEN UNIVERSITY (Guangzhou, P. R. China) IN 2010

In the event of the 50th anniversary of the re-building of the Philosophy Department of Sun Yat-sen University in 2010, an award was given to him to acknowledge his contributions to the areas of philosophy, philosophy of science, logic, and cognitive science.

EDITED HANDBOOKS

Handbook of Abductive Cognition, Springer (Editor-in Chief), 2023.

Springer Handbook of Model-Based Science (Editor-in-Chief with T. Bertolotti), 2017.

COMPUTATIONAL PHILOSOPHY LABORATORY (FOUNDER AND DIRECTOR)

WWW <URL:<http://philos.unipv.it/>> (Computational Philosophy Laboratory); 1993 - current. Email:cp-lab@unipv.it

BOOK SERIES EDITOR

2011- current. *Studies in Applied Philosophy, Epistemology and Rational Ethics (SAPERE)*

Springer Science + Business Media LLC New York and Springer Japan KK.

PROFESSIONAL ASSOCIATIONS:

SILFS (Società Italiana di Logica e di Filosofia delle Scienze) , Cognitive Science Society, PSA (Philosophy of Science Association), SFI (Società Italiana di Filosofia), AIIA (Associazione Italiana per l'Intelligenza Artificiale), AAAI (American Association for Artificial Intelligence), Cognitive Science Society, APA (American Philosophical Association), ARFIT (Asociatia Romana de Filosofie, Inginerie, si Technoetica): Honorary Member.

SUPERVISOR OF GRADUATE, UNDERGRADUATE STUDENTS, PHD DISSERTATIONS, AND PROFESSORSHIPS (PHILOSOPHY, MATHEMATICS, COMPUTER SCIENCE)

Promotion and evaluation committees

Université del Lille, Lille, PhD Committee 2021; Politecnico of Milan, Committee for the promotion to the position of assistant professor with tenure, RtdB; University of Messina, Committee for the promotion to the position of Full Professor, 2021; University of Sassari, Committee for the promotion to the position of Full Professor, 2021; University of Venice Cà Foscari, Committee for the promotion to the position of Full Professor, 2021; University of Rome La Sapienza, Committee for the promotion to the position of Full Professor, 2021; Centre (Narodowe Centrum Nauki - NCN, Post-Doc Positions Poland, 2014; The Estonian Research Council, Post-Doc Positions, Estonia, 2014; Politecnico of Milan, Search Committee: Position of Associate Professor in Philosophy of Science, 2014; Max Planck Research School on Adapting Behaviour in a Fundamentally Uncertain World (IMPRS-Uncertainty) (joint Ph.D. program of the Max Planck Institute of Economics, the Max Planck Institute for Human Development, the Max Planck Institute for Research on Collective Goods and the Department for Psychology and Economics of the University of Jena), GERMANY, 2014; Università della Svizzera Italiana, SWITZERLAND, 2003, 2007; Rutgers University, USA, 2007; University of Windsor, UK, 2007; University of Waterloo, CANADA, 2008, 2009; University of Bristol, UK, 2009; Ministry of University and Education, Paris, FRANCE, 2009, 2010; IUSS, University of Pavia, ITALY, 2010; Eindhoven University of Technology, THE NETHERLANDS, 2010; Athanassios Raftopoulos' Professorship, University of Cyprus, CYPRUS, 2010; University of Bolzano, Bolzano, ITALY, 2010; Woosuk Park's Professorship, Humanities & Social Sciences, KAIST, Guseong-dong, Yuseong-gu Daejeon, SOUTH KOREA, 2010; University of Illinois Urbana-Campaign, USA, 2010; University of Hull, Cottingham Road, UK, 2004; The University of California, San Diego, USA, 2003; NSF, USA, 2003; Harvard Medical School, Boston, USA, 2005; Duke University, Durham, USA, 2003, 2006; University of Siena, Italy, 2001; Yale Graduate School, Yale, USA, 2003; Georgia Institute of Technology, Atlanta, USA, 2003; University of Michigan, Ann Arbor, 1999, 2000; CUNY Graduate Center, New York, USA, 2006; Birkbeck, University of London, UK, 2009; Politecnico di Milano, Milan, Examination Board for a position of Associate Professor of Logic and Philosophy of Science, ITALY, 2009; University of Guelph, Guelph, CANADA, 2006; Dalhousie University, CANADA, 2007; AAMC Medical School Application Services, Washington, DC, USA, 2009; CNRS, FRANCE, 2020; University of Rome "Sapienza", Rome, Examination Board for a position of Full Professor of Logic and Philosophy of Science, ITALY, 2020; University of Messina, Messina, Examination Board for a position of Full Professor of Logic and Philosophy of Science, ITALY, 2020.

PhD Supervision, Assistance, and PhD Committees:

Licia Calvi, Antwerp University, Antwerp, BELGIUM, 2001; Marco Ramoni, University of Pavia, Pavia, ITALY, 1993; Rosella Gennari, University of Amsterdam, THE NETHERLAND; 2002; Sami Paavola, University of Helsinki, Helsinki, FINLAND, 2006; Emanuele Bardone, University of Pavia, Pavia, ITALY 2009; Bassel Habib, University Pierre et Marie Curie, Paris, FRANCE, 2010; Dirk Derom, Vrije University, Bruxelles, BELGIUM, 2011; Tommaso Bertolotti, University of Pavia, Pavia, ITALY- 2015; Selene Arfini, Università di Chieti Pescara, Italy, 2017, Alger Sans Pinillos, Fac. Filosofia i Lletres, Universitat Autònoma de Barcelona, PhD Student, 2018,

.

PROFESSIONAL ACADEMIC SERVICE

2008 - 2016, **Director** of Graduate and Postgraduate Studies in Philosophy ("Consiglio Didattico di Filosofia"), University of Pavia (elected).

2008 - 2015, **Committee Member**, Dean's Board of Advisors, "Consiglio di Presidenza", "Facoltà di Lettere e Filosofia", University of Pavia, by 2013 "Consiglio Direttivo", Department of Humanities, University of Pavia.

2008 - 2013, **Committee Member**, "Commissione Paritetica", "Facoltà di Lettere e Filosofia", University of Pavia.

2003 - 2013, **Member of the Teaching Board**, PhD Program in Philosophy, University of Pavia.

2013 - 2015, **Member of the Teaching Board**, PhD Program in Philosophy, FINO, University of Pavia, Turin, Genoa, Vercelli.

1994 - **current, Director** of the "Computational Philosophy Laboratory", Department of Philosophy, University of Pavia.

CONFERENCES AND WORKSHOPS

Program Chair

PROGRAM CO-CHAIR (with Emiliano Ippoliti and Selene Arfini): International Conference Model-Based Reasoning, Abductive Cognition, Creativity. Inferences & Models in Science, Logic, Language, and Technology (MBR023_ROME), Rome, Italy, June 7th -9th, 2023.

PROGRAM CO-CHAIR Conference of the Académie Internationale de Philosophie des Sciences (Bruxelles): "Explanation, creativity and discoverability in science", Alma Mater Ticinensis, Palazzo, Vistarino September 26 – October 1, 2022.

PROGRAM CO-CHAIR (with Ángel Nepomuceno Fernández and Francisco Salguero Lamillar): International Conference Model-Based Reasoning in Science and Technology. Inferential Models for Logic, Language, Cognition and Computation (MBR18_SPAIN), 20th Anniversary, Sevilla, Spain, October 24th -26th, 2018.

PROGRAM CO-CHAIR (with Y. Oshawa and A. Abe), 2nd European Workshop on Chance Discovery and Data Synthesis (EWCDD16), in ECAI2016, Aug 29, 2016, The Hague, The Netherlands.

PROGRAM CO-CHAIR (with Claudia Casadio): International Conference Model-Based Reasoning in Science and Technology. Models and Inferences: Logical, Epistemological, and Cognitive Issues, (MBR015_ITALY), Sestri Levante, Italy, June 25-27, 2015.

PROGRAM CO-CHAIR (with Ping Li): Fourth International Conference on Philosophy and Cognitive Science, PCS2013, November 2013, Guangzhou, China, November 7-8, 2013

PROGRAM CO-CHAIR (with Ping Li): International Conference on Philosophy and Cognitive Science, Guangzhou (Canton), China, November 7-8, 2011.

PROGRAM CHAIR: International Conference *Model-Based Reasoning in Science and Technology. Theoretical and Cognitive Issues*, (MBR012_ITALY), Sestri Levante, Italy, June 2012.

PROGRAM CO-CHAIR (with Walter Carnielli): International Conference *Model-Based Reasoning in Science and Technology. Abduction, Logic, and Computational Discovery*, (MBR09_BRAZIL), Campinas, Brazil, December 2009.

PROGRAM CO-CHAIR (with Ping Li): International Conference *Model-Based Reasoning in Science and Medicine*, (MBR06_CHINA), Guangzhou (Canton), China, July, 2006.

WORKSHOP CO-CHAIR: CODATA Discovery Workshop "Interdisciplinary Communication for Risk Management with Multi-Data Mining", October, Beijing, 2006

WORKSHOP CO-ORGANIZER: Workshop Abduction and Induction in AI and Scientific Modeling (ECAI2006), Riva del Garda, Italy, August 2006.

SYMPOSIUM CO-ORGANIZER, COGSCI'05 (International Cognitive Science Conference) Symposium on Hypothesis Formation and Cognitive Science, with Paul Thagard, Christian Shunn, and Pat Langley, Stresa, Italy, July 2005.

SYMPOSIUM ORGANIZER, COGSCI'04 (International Cognitive Science Conference), Symposium on Abductive Inferences in Science (invited speakers: A. Aliseda, T. Addis, D. Gooding, J. Woods, D. Gabbay, J. Meheus, M. Sintonen, S. Paavola, Chicago, US, 2004.

PROGRAM CHAIR: International Conference *Model-Based Reasoning in Science and Engineering: Abduction, Visualization, Simulation* (MBR04), Pavia, Italy, December 2004.

PROGRAM CHAIR: *International Conference Computing and Philosophy* (E-CAP2004_ITALY), Pavia, Italy, 2004.

PROGRAM CHAIR: Conference *Model-Based Reasoning Italy* (MBR03-Italy), Pavia, Italy, 2003.

PROGRAM CHAIR: International Conference *Model-Based Reasoning: Scientific Discovery, Technological Innovation, Values* (MBR01), Pavia, Italy, 2001 (with Nancy J. Nersessian).

PROGRAM CHAIR: International Conference *Model-Based Reasoning in Scientific Discovery* (MBR98), Pavia, Italy, 1998.

PROGRAM CO-CHAIR: *Advanced NATO Workshop Advanced Models of Cognition for Medical Training and Practice*, Castelvecchio Pascoli, Italy, 1991.

PROGRAM CO-CHAIR: *Colloquium Mathematics and Knowledge*, Pavia, Italy, 1989.

CO-ORGANIZER: *Second Workshop Imagination, Scientific Intelligibility, Artificial Intelligence*, Pavia, Italy, 1987.

CO-ORGANIZER: *First Workshop Imagination, Scientific Intelligibility, Artificial Intelligence*, Pavia, Italy, 1986.

Committee Member (and Reviewer)

COMMITTEE MEMBER, 27th International Conference on Knowledge Based and Intelligent information and Engineering Systems (KES2023), 6 -8 September 2023. Athens, Greece.

COMMITTEE MEMBER, 13th International Conference on Agents and Artificial Intelligence, ICAART 2023, February 16-8, Lisbon, Portugal.

COMMITTEE MEMBER, 13th International Conference on Agents and Artificial Intelligence, ICAART 2022, February 3-5, Vienna, Austria.

COMMITTEE MEMBER: "4th International Conference on Computer-Human Interaction Research and Applications" - CHIRA 2021, Valletta, Malta, October-28-29, 2019.

COMMITTEE MEMBER, 13th International Conference on Agents and Artificial Intelligence, ICAART 2021, February 2-2, Vienna, Austria.

COMMITTEE MEMBER: "4th International Conference on Computer-Human Interaction Research and Applications" - CHIRA 2020, Budapest, Hungary, November-5-6, 2020.

COMMITTEE MEMBER: PHEADE Conference (Cultural Challenges of Technology), Stefan Cel Mare University, Suceava, Romania, October 17-18, 2019.

COMMITTEE MEMBER; EPHEs Conference (Engineering Philosophy & Ethics in Society), Stefan Cel Mare University, Suceava, Romania October 17-19, 2019.

COMMITTEE MEMBER: The 27th International Conference on Computers in Education (ICCE 2019), organized by the Asia-Pacific Society for Computers in Education (APSCE). Kenting, Taiwan, December 2-6, 2019.

COMMITTEE MEMBER, 12th International Conference on Agents and Artificial Intelligence, ICAART 2020, February 22-24, Valletta, Malta.

COMMITTEE MEMBER, 11th International Conference on Agents and Artificial Intelligence, ICAART 2019, February 19-21, Prague, Czech Republic.

COMMITTEE MEMBER: "3rd International Conference on Computer-Human Interaction Research and Applications" - CHIRA 2019, Vienna, Austria, September 20th-21th, 2019.

COMMITTEE MEMBER: "2nd International Conference on Computer-Human Interaction Research and Applications" - CHIRA 2018, Seville, Spain, September 19th-21th, 2018.

COMMITTEE MEMBER: AISC 2017 - 14th Annual Conference of the Italian Association for Cognitive Sciences (AISC), Bologna, Italy, December 14th-16th, 2017.

COMMITTEE MEMBER: PT-AI 2017 (Philosophy & Theory of Artificial Intelligence), Leeds, UK, 4-5 November 2018.

COMMITTEE MEMBER: SILFS 2017, Triennial International Conference of the Italian Society for Logic and the Philosophy of Science, Bologna, Italy, 20-23 June 2017.

COMMITTEE MEMBER, Logic & Collaboration in Intelligent Applications. LIA2017, March 30-31, Stanford University, Stanford, CA, U.S.

COMMITTEE MEMBER, 10th International Conference on Agents and Artificial Intelligence, ICAART 2018, January 16-18, Funchal, Madeira, Portugal.

PROGRAM COMMITTEE MEMBER, COGSCI2017, 39nd Annual Meeting of the Cognitive Science Society, London, UK, 2017.

COMMITTEE MEMBER, 9th International Conference on Agents and Artificial Intelligence, ICAART 2017, February 24-26, Porto, Portugal.

PROGRAM COMMITTEE MEMBER, COGSCI2016, 38nd Annual Meeting of the Cognitive Science Society, 2016.

COMMITTEE MEMBER, 8th International Conference on Agents and Artificial Intelligence, ICAART 2016, February 24-26, Rome, Italy.

COMMITTEE MEMBER, EUCOG 2015 International Conference at Universitat Autònoma de Barcelona, September 25-26, 2015.

COMMITTEE MEMBER, Second IEEE/ASE International Conference on Big Data Science and Computing (BigDataScience), Stanford, CA, USA, May 2014 27-31.

COMMITTEE MEMBER, The Sixth International Conference on Social Media Technologies, Communication, and Informatics, SOTICS 2015, August 21-25, 2016 - Rome, Italy.

PROGRAM COMMITTEE MEMBER, COGSCI2015, 37nd Annual Meeting of the Cognitive Science Society, 2015.

COMMITTEE MEMBER, The Fifth International Conference on Social Media Technologies, Communication, and Informatics, SOTICS 2015 November 15-20, 2015 - Barcelona, Spain.

PROGRAM COMMITTEE MEMBER, COGSCI2014, 36nd Annual Meeting of the Cognitive Science Society, 2014.

COMMITTEE MEMBER, The Fourth International Conference on Social Media Technologies, Communication, and Informatics, SOTICS 2014, October 12-16, 2014 - Nice, France.

COMMITTEE MEMBER, Philosophy and Theory of Artificial Intelligence (PT-AI 13), Oxford, September, 2013, Oxford, UK.

COMMITTEE MEMBER, The Third International Conference on Social Media Technologies, Communication, and Informatics, SOTICS 2013, October 17 - 22, 2013 - Lisbon, Portugal

PROGRAM COMMITTEE MEMBER, COGSCI2013, 35nd Annual Meeting of the Cognitive Science Society, 2013.

COMMITTEE MEMBER, International Conference on Intelligent Computing, ICIC2013, July 28-31, 2013, Nanning, China

COMMITTEE MEMBER, The Second International Conference on Social Media Technologies, Communication, and Informatics, SOTICS 2012, October 21-26, 2012 - Venice, Italy.

PROGRAM COMMITTEE MEMBER, COGSCI2012, 34nd Annual Meeting of the Cognitive Science Society, 2012.

COMMITTEE MEMBER, EPHESS - SST - 2012, Engineering, Philosophy, and Ethics of the Knowledge Society Searching for a Spiritual Turn, March 15-18, 2012, Suceava, Romania, Stefan Cel Mare University..

COMMITTEE MEMBER, Enhancing Human Experience via Emerging Technologies, Le Mans University, France, March 27-28, 2012.

PROGRAM COMMITTEE MEMBER, COGSCI2011, 33nd Annual Meeting of the Cognitive Science Society, 2011.

COMMITTEE MEMBER, PHEADE 2011, Philosophy of Engineering and Artifact in the Digital Era , Suceava, Romania, Stefan Cel Mare University, October 13-15, 2011.

COMMITTEE MEMBER, Third ETC Conference Economy, Transdisciplinarity, Cognition: "Corporate Social Responsibility in a Permanent Changing World", May 13 -14, Bacau, Romania, 2010.

COMMITTEE MEMBER, The First International Conference on Social Media Technologies, Communication, and Informatics, SOTICS 2011, July 17-22, 2011 - Bournemouth, UK

COMMITTEE MEMBER, SMC2010 - International Conference on Systems, Man, and Cybernetics, Istanbul, Turkey, 2010.

PROGRAM COMMITTEE MEMBER, COGSCI2010, 32nd Annual Meeting of the Cognitive Science Society, Portland, OR, USA, August 11-14, 2010.

COMMITTEE MEMBER, 5th International Workshop on Chance Discovery (IWCD10) in The 10th IEEE International Conference on Data Mining, Sydney, Australia, December, 2010.

COMMITTEE MEMBER, Invited session on Innovations in Chance Discovery, KES2010, 14th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Cardiff, Wales, UK, September 2010.

COMMITTEE MEMBER, LRR10: Logic, Reasoning and Rationality, Ghent, Belgium, September, 2010.

COMMITTEE MEMBER, ICCX - Computational Discovery, Lisbon, Portugal, January, 2010.

COMMITTEE MEMBER PHEADE 2009, International Conference under the theme: The Engineered Singularity, Suceava & Cernovtsy (Romania & Ukraine), October 26-28, 2010.

COMMITTEE MEMBER, EBICC 2009 - Brazilian International Meeting of Cognitive Science, Campinas, Brazil, September 2009.

COMMITTEE MEMBER, The 2nd Roass Conference of the Romanian Association of Semiotic Studies, Slanic-Moldova, Romania, October 2008.

COMMITTEE MEMBER, Modelling Adaptive and Cognitive Systems (ADAPCOG 2008), October, 2008, Salvador, Bahia, Brazil.

COMMITTEE MEMBER, ETHICOMP 2008. Living, Working and Learning beyond Technology Mantua, Italy, September 2008.

COMMITTEE MEMBER: International Joint Workshop on Computational Creativity, (IJWCC2008), Madrid, Spain, September, 2008.

COMMITTEE MEMBER: "Applying Peirce": An International Conference on Peirce's Thought and Its Applications, Helsinki, Finland, June 2007

COMMITTEE MEMBER: Fourth Joint Workshop on Computational Creativity (ECAI2006), London, UK, June 2007.

COMMITTEE MEMBER: Third Joint Workshop on Computational Creativity (ECAI2006), Riva del Garda, Italy, August 2006.

COMMITTEE MEMBER: Fourth International Workshop on Computational Models of Scientific Reasoning and Applications (CMSRA-IV) Lisbon, Portugal, September 2005.

COMMITTEE MEMBER: *The Second Joint International Workshop on Computational Creativity*, IJCAI'05 (International Joint Conference of Artificial Intelligence), UK, August 2005.

COMMITTEE MEMBER, Workshop Chance Discovery: from Data Interaction to Scenario Creation, The 22nd International Conference on Machine Learning (ICML 2005), Bonn, Germany, August 2005.

COMMITTEE MEMBER: IACAP International Association for Computing and Philosophy, European CAP Steering Committee, 2004-2006.

COMMITTEE MEMBER: The Abductive Systems Group, Director John Woods, Department of Philosophy, University of British Columbia, Vancouver, Canada, 2004-**current**.

COMMITTEE MEMBER: *Computational Creativity 2004*, at the *Seventh European Conference on Case-Based Reasoning (ECCBR-04)*, Madrid, Spain, 2004.

COMMITTEE MEMBER: *First European Workshop on Chance Discovery*, (EWCD-04), in ECAI-04 (*European Conference of Artificial Intelligence*), Valencia, Spain, 2004.

COMMITTEE MEMBER: *The 6th International Conference on Discovery Science*, Sapporo, Japan, 2003.

COMMITTEE MEMBER: *Third International Workshop on Computational Models of Scientific Reasoning and Applications (III CMSRA)*, Buenos Aires, Argentina, 2003.

COMMITTEE MEMBER: *International Congress on Discovery and Creativity (ICDC)*, Ghent, Belgium, 1998.

COMMITTEE MEMBER: *International Conference Culture and Spirituality*, Pavia, Italy, 1997.

COMMITTEE MEMBER: *International Conference Chaos, Fractals, Models 96*, Pavia, Italy, 1996.

ACADEMIC CENTERS AND EDITORIAL BOARDS

Academic Centers

INTERNATIONAL MEMBER: AppEEL, Applied Evolutionary Epistemology, Center for Philosophy of Science, Department for History and Philosophy of Science, Faculty of Science, University of Lisbon. Lisbon .Portugal.

COMMITTEE MEMBER: *Italian Society for Logic and the Philosophy of Science*, 2014 - 2017.

COMMITTEE MEMBER: *Centro di Scienze Cognitive e Sistemiche per la Formazione Aziendale*, Consorzio Pavese per Studi Post-Universitari nell'Area Economico-Aziendale, Pavia, 1996 - **current**.

COMMITTEE MEMBER: *Center of Cognitive Science*, University of Pavia, Pavia, 1994 - 2013.

Editorial Boards or Editor (Handbooks and Publishers)

The Commens Encyclopedia of Peirce Studies (Member of the Editorial Board).

Springer Handbook of Model-Based Science (Co-editor with T. Bertolotti).

JOURNALS

EDITORIAL BOARD MEMBER: *Nuova Secondaria*, 2022- **current**.

EDITORIAL BOARD MEMBER: *Possibility Studies*, 2022- **current**.

EDITORIAL BOARD MEMBER: *Mind & Society*, 1999-**current**.

EDITORIAL BOARD MEMBER: *Logic Journal of the IGPL*, 2007-**current**.

EDITORIAL BOARD MEMBER: *Journal of Applied Logic*, 2004-**current**.

ASSOCIATE EDITOR: *International Journal of Technoethics*, 2009-**current**.

EDITORIAL BOARD MEMBER: *Academic Journal of Modern Philology* (Polish Academy of Sciences, Wroclaw Branch), 2013-**current**.

EDITORIAL BOARD MEMBER: *International Journal of Semiotics and Visual Rhetoric* (IJSVR), formerly *International Journal of Signs and Semiotic Systems* (IJSSS), 2011-2019.

EDITORIAL BOARD MEMBER: *Broad Research in Artificial Intelligence and Neuroscience* (*BRAIN*), 2009-**current**.

EDITORIAL BOARD MEMBER: *International Journal of Signs and Semiotic Machines* (IJSSM), 2009-**current**.

ADVISORY BOARD MEMBER: *Sci*, 2018-**current**.

EDITORIAL BOARD MEMBER: *Philosophies* (MDPI), 2018-**current**.

EDITORIAL BOARD MEMBER: *Logics* (MDPI), 2021-**current**.

EDITORIAL BOARD MEMBER: *Noema* (Romanian Committee of History and Philosophy of Science and Technics, Romanian Academy), 2010-**current**.

EDITORIAL BOARD MEMBER: *Journal of Algorithms in Cognition, Informatics, and Logic*, 2008-2012.

EDITORIAL BOARD MEMBER: *Internet Journal Romanian Semio-Logical Review*, 2008-**current**.

EDITORIAL BOARD MEMBER: *Economy. Transdisciplinarity Cognition*, 2008-**current**.

EDITORIAL BOARD MEMBER: *International Journal of Technoethics*, 2009-**current**.

EDITORIAL BOARD MEMBER: *Revista Internacional de Tecnología, Conocimiento y Sociedad*, 2011- **current**.

EDITORIAL BOARD MEMBER: *Trilogía Ciencia Tecnología Sociedad*, 2019 - *current*.

COMMITTEE MEMBER: *Internet Journal Network*, 2006-**current**.

EXECUTIVE EDITOR: *Economy. Transdisciplinarity Cognition*, 2008-**current**.

Reviewer: Journals and Conferences

REVIEWER: *Science & Education*
REVIEWER: *Biosemiotics*.
REVIEWER: *Erkenntnis*.
REVIEWER: *Synthese*.
REVIEWER: *Philosophy of Science*.
REVIEWER: *Journal of Modern Logic*.
REVIEWER: *Journal of Applied Logic*.
REVIEWER: *Informal Logic*.
REVIEWER: *Minds and Machines*.
REVIEWER: *Information*.
REVIEWER: *Mind & Society*.
REVIEWER: *Journal for General Philosophy of Science*.
REVIEWER: *The Monist*.
REVIEWER: *Studies in History and Philosophy of Science*.
REVIEWER: *AI & Society*.
REVIEWER: *Foundations of Science*.
REVIEWER: *Philosophical Psychology*.
REVIEWER: *Journal of Computer Security*
REVIEWER: *Cognitive Systems Research*.
REVIEWER: *Knowledge Engineering Review*.
REVIEWER: *Pragmatics and Cognition*.
REVIEWER: *Artificial Intelligence in Medicine*.
REVIEWER: *International Journal of Signs and Semiotic Systems (IJSSS)*
REVIEWER: *Journal of Intelligent Systems*.
REVIEWER: *The IfCoLog. Journal of Logics and their Application*.
REVIEWER: *Philosophies*.
REVIEWER: *Thinking Skills and Creativity*.
REVIEWER: *Western Journal of Nursing Research*.
REVIEWER: *AIEDAM Artificial Intelligence for Engineering Design, Analysis and Manufacturing*.
REVIEWER: *Japan AI Society*.
REVIEWER: *Argumenta*.
REVIEWER: *Behavior Processes*.
REVIEWER: *Futures*.
REVIEWER: *Journal of Institute for Systems and Technologies of Information, Control and Communication*.
REVIEWER: *Journal of Economic Issues*.
REVIEWER: *Journal of Post-Human Studies*.
REVIEWER: *Sistemi Intelligenti*.
REVIEWER: *PsychNology Journal*.
REVIEWER: *BRAIN: Broad Research in Artificial Intelligence and Neuroscience*
REVIEWER: *International Journal of Human Resources Development and Management*.
REVIEWER: *Journal of Conflict Management*.
REVIEWER: *Studies in History and Philosophy of Science*.
REVIEWER: *Journal of Economic Issues*
REVIEWER: *International Journal of Human Computer Studies*.
REVIEWER: *IEEE Intelligent Systems*.
Logic Journal of the IGPL
International Journal of Semiotics and Visual Rhetoric (IJSVR)
REVIEWER: *PsychNology Journal*.
REVIEWER: *Argumenta. Journal of Analytic Philosophy*
REVIEWER: *European Journal for Philosophy of Science*.
REVIEWER: *Behavioural Processes*.

REVIEWER: *New Media & Society*.
REVIEWER: *Cognitive Science Society Conferences*.
REVIEWER: EAPCogSci Conferences.
REVIEWER: *IJCAI Conferences*.
REVIEWER: *Journal of Posthuman Studies*
REVIEWER: *Current Anthropology*.
REVIEWER: *European Conference of Artificial Intelligence*.
REVIEWER: *Annual Conference of the Cognitive Science Society*.
REVIEWER: *European Cognitive Science Conference*.
REVIEWER: MoDAT 2014, MoDAT 2015.
REVIEWER: ICAART International Conferences.
REVIEWER: SIR-MIUR
REVIEWER: 23rd Conference WMSCI 2019 Systemics, Cybernetics and Informatics; 24th Systemics, Cybernetics and Informatics: WMSCI 2020.

Reviewer: Funds

European Research Council, 2011.
European Research Council - Consolidator Grant 2017 Call - SH4 panel (The Human Mind and Its Complexity)
National Science Centre, Poland, 2013.
SIR - Ministry of Education, Universities and Research, Italy, 2015.
Estonian Research Council, 2014, 2015, 2016, 2019..
National Science Centre, Poland, 2014.
Programma per Giovani ricercatori Rita Levi Montalcini, Ministry of Education, Universities and Research, Italy, 2017.
F.R.S.-FNRS, France 2017.
Levi Montalcini, 2017, 2018.
VQR, Evaluation Quality of Research, Ministry of Education, Universities and Research, Italy, 2017.
Swiss National Foundation, 2020.
Netherlands Institute for Advanced Study (NIAS-KNAW), 2020.
In Road 2002, University of Pavia.
Agencia Nacional de Investigación Y Desarrollo, Chile, 2021.

CONFERENCES AND EDITED BOOKS (See also above the conferences listed in the item "Committee Member (and Reviewer)"

MEMBER OF THE SCIENTIFIC COMMITTEE, Book Series "La mente e i sistemi cognitivi", Collana di Scienze Cognitive, Filosofia e Tecnologia, Aracne Publisher, Rome, 2018-current.
MEMBER OF THE ADVISORY BOARD, Book Series Pensée des sciences, Pensa MultiMedia, Lecce, Italy, 2014-current.
REVIEWER: International Conference, Knowledge Generation, Communication and Management: KGCM 2007-2008-2014.
REVIEWER: MBR (Model-Based Reasoning International Conferences), 1998, 2001, 2004, 2006, 2009, 2012, 2015, 2018.
REVIEWER: ECAP2004. International European Conference "Computing and Philosophy" (E-CAP2004_ITALY).
REVIEWER: National Science Centre, Poland- 2013-.
EXAMINATION BOARD Premio "Marco Somalvico", Politecnico di Milano, 2004-2007.
SEVENTH FRAMEWORK PROGRAMME (FP7), European Union Marie Curie Reintegration Grants of the Specific Programme PEOPLE, 2009.
EDITORIAL ADVISORY BOARD, Book Rethinking Machine Ethics in the Age of Ubiquitous Technology (editor Jeffrey White) IGI-Global, 2014.
EXAMINATION BOARD Progetti Gruppi di Ricerca 2019 - POR FESR Lazio, Lazio Innova S.p.A., Italy 2014-2020.

INTERNATIONAL PROGRAM COORDINATION

Coordination of the activities related to the Agreement for Direct Cooperation between the Board of Regents of the University System of Georgia by and on behalf of the Georgia Institute of Technology (USA) and the University of Pavia (Italy) (Research and education in philosophy, philosophy of science and technology, and in the whole area of cognitive sciences), Funds MIUR Internazionalizzazione, 2000 - 2004.

Coordination of the activities related to the Agreement between University of Pavia and The City University of New York/Baruch College (in the framework of the pre-existing CUNY-ITALY Exchange) (Research and education in philosophy, philosophy of science and technology) 2003 - 2004.

Coordination of an International research with the Department of Philosophy of the Zhongshan University, Guangzhou, P.R. China and the Department of Philosophy of the Central University for Nationalities, Beijing, P.R. China ((Research and education in philosophy, philosophy of science and technology, and in the whole area of cognitive sciences), Funds Fondazione FONDAZIONE CARIPLO, 2004-2006, Università di Pavia, 2006-2013.

GRANTS AND RESEARCH GROUPS:

Post-Laurea Fellowship, University of Pavia, 1978-1980.

Local Funds (University of Pavia, 60% and FAR):

COORDINATOR:

Criteria and methods for truth in science and philosophy, 1989-1991.

Argumentation and knowledge in science and philosophy, 1991-1993.

The language of philosophy and the representation of the world, 1991-1993.

Epistemology, logic, cognitive science: new problems and perspectives, 1992-1994.

Perspectives on constructive reasoning in science and philosophy: interdisciplinary aspects, 1994-1995.

Language of science and language of philosophy, 1995-1997.

Constructive reasoning in art and science, 1998 - 2000.

Computational philosophy, cognitive sciences, moral imagination, 2001-2003.

Knowledge as a duty. Knowledge-based society and values in XXI Century, 2004-2005.

Philosophy and cognitive science, 2006-2007.

Distributed cognition in hypothetical reasoning, 2008-2009.

Epistemology, Logic and Philosophy of Science, 2009-2013-current.

National Funds (MIUR - COFIN/PRIN - Programmi di ricerca scientifica di interesse nazionale):

MEMBER:

National Project "Mathematics, informatics and didactic problems" (National coordinator Claudio Bernardi, Department of Mathematics, University of Rome "La Sapienza"), 1991-1995.

LOCAL DIVISION, COORDINATOR:

Epistemological and formal models of explanatory reasoning, Local Division, University of Pavia (National coordinator Claudio Pizzi, University of Siena), 1996.

LOCAL DIVISION, COORDINATOR:

Information transfer and measurement in the logic of scientific explanation, Local Division, University of Pavia (National coordinator Claudio Pizzi, University of Siena), 1998 - 2000.

LOCAL DIVISION, COORDINATOR:

Causal and functional relationships in scientific discovery, Local Division, University of Pavia (National coordinator Claudio Pizzi, University of Siena), 2000 - 2002.

LOCAL DIVISION, COORDINATOR:

Models of reasoning in scientific explanation and discovery, Local Division, University of Pavia (National coordinator Claudio Pizzi, University of Siena), 2002 - 2004.

LOCAL DIVISION, COORDINATOR:

Embodied and distributed aspects of model-based reasoning in scientific discovery, Local Division, University of Pavia (National coordinator Claudio Pizzi, University of Siena), 2004 - 2006.

LOCAL DIVISION, COORDINATOR:

Multimodal Abduction. Distributed representations and epistemic mediators in scientific discovery and explanation, Local Division, University of Pavia (National coordinator Claudio Pizzi, University of Siena), 2007 - 2009.

NATIONAL COORDINATOR/PRINCIPAL INVESTIGATOR:

Epistemological, Cognitive, and Formal Models of Scientific Reasoning and Discovery, 2009-2011 (fund actual duration 2011-2013).

LOCAL DIVISION, COORDINATOR:

Eco-Cognitive Abduction. Distributed Representations, Cognitive Mediators, and Social Epistemology in Scientific Discovery and Technological Innovation, Local Division, University of Pavia (National coordinator Lorenzo Magnani, University of Pavia), 2009 - 2013.

NATIONAL COORDINATOR/PRINCIPAL INVESTIGATOR:

Models and inferences in science. Logical, Epistemological, and Cognitive Aspects, 2012-2014 (funds actual duration 2014-2016).

LOCAL DIVISION, COORDINATOR:

Models, fictions, and inferences in the perspective of eco-cognitive abduction. Embodied and distributed representations and epistemic mediators in scientific discovery and technological innovation, Local Division, University of Pavia (National coordinator Lorenzo Magnani, University of Pavia), 2012 - 2014 (funds actual duration 2014-2016).

NATIONAL COORDINATOR/PRINCIPAL INVESTIGATOR:

Logic and cognition. Theory, experiments, and applications 2017-2019 (funds actual duration 2019-2021).

LOCAL DIVISION, COORDINATOR:

Local Division, University of Pavia (National coordinator Lorenzo Magnani, University of Pavia), 2017 - 2019 (funds actual duration 2019-2021).

University of Pavia Funds (Blue Sky Research) - Established Investigators - Progetti mossi dalla curiosità scientifica, che permettono ai ricercatori di raggiungere risultati significativi e potenzialmente innovativi attraverso l'esplorazione di nuove idee, in tutte le aree del sapere, anche se esposti ad un maggior rischio:

PRINCIPAL INVESTIGATOR: Understanding Ignorance - An Eco-Cognitive Investigation of Not-Knowing for the Promotion of Epistemic Responsibility, 2017-2019.

National Funds (FIRB - Progetti autonomamente presentati per lo svolgimento di attività di ricerca di base di alto contenuto scientifico e tecnologico anche a valenza internazionale):

LOCAL DIVISION, COORDINATOR:

The impact of contemporary epistemology and cognitive science on scientific and technological research, Local Division, University of Pavia (National coordinator Claudio Pizzi, University of Siena), 2003 - 2005.

Project "Internationalization" MIUR (Italian Ministry of University, Rome, Italy)

COORDINATOR

INTERLINK: PAVIA/ATLANTA, Università di Pavia-Georgia Tech. COGNITIVE PHILOSOPHY, EPISTEMOLOGY, AND PHILOSOPHY OF TECHNOLOGY. International Exchange Program (Faculty and Students) University of Pavia and Georgia Institute of Technology, 2001-2004.

INTERLINK: "Beyond Mind. A New Foundation for Cognitive Science: Model-Based Reasoning and Hypothesis Generation.".International Exchange Program (Faculty) University of Pavia and USA: 1. Bowling Green State University, 2. University of Virginia, 3. Stanford University, 4. Ohio State University, CANADA, 5. British Columbia University, MEXICO; 6 Universidad Nacional Autonoma de Mexico (UNAM), Mexico City. UE: 7. University of Bath, UK; 8. Portsmouth University, UK; 9. King's College, UK; 10. University of Ghent, BELGIUM; 11. Università di Trento ITALY; CHINA: 12. Sun Yat-sen (Zhongshan) University, Guangzhou (Canton), CHINA 2006-2008 (**selected and funded by the University of Pavia**).

CNR Funds (Consiglio Nazionale delle Ricerche):

COORDINATOR:

Single projects: Computational epistemology. Applying concepts and methods of artificial intelligence to the problems of philosophy of science, 1991-1992.

Explanation: the role of coherence: a) cognitive aspects of medical reasoning, b) logical and computational aspects of abductive reasoning, 1993-1995.

Coordinate project: Causality and explanation in intelligent problem solving (with University of Turin, Departments of Computer Science; University of Milan, Department of Philosophy; CNR, Institute of Psychology, Rome), 1995-1997.

Bilateral project: Modeling mechanisms of explanatory reasoning (with P. Thagard, Department of Philosophy, Waterloo University, Canada), 1995-1997.

Travel grants: Philosophical, epistemological, and computational aspects of medical problem solving (Laboratory for Computational Linguistics, Carnegie Mellon University, Pittsburgh, USA), 1992.

Bilateral project: Modeling creative and simulative reasoning processes in science (with N. J. Nersessian, Georgia Institute of Technology, Atlanta, USA) 1998 - 2001.

European Union Funds:

MEMBER:

European Project AIM (Advanced Informatics in Medicine) No. A1005: GAMES-I and GAMES-II: A general architecture for medical experts systems, University of Pavia, London, Aberdeen, Bruxelles, 1990-1994.

Private Funds (Bank):

COORDINATOR:

FONDAZIONE CARIPLO, Computational Philosophy Laboratory, Personal Computers and other facilities, 1993.

FONDAZIONE CARIPLO, Computational Philosophy Laboratory, Research, 1994.

Idem, 1995.

Idem, 1996.

FONDAZIONE CARIPLO, International Conference Model-Based Reasoning in Scientific Discovery (MBR'98) 1997.

FONDAZIONE CARIPLO, International Conference Information Transfer and Measurement in the Logic of Scientific Explanation, 1998.

FONDAZIONE CARIPLO, International Cooperation with some Chinese Universities- 2001.

FONDAZIONE CARIPLO, International Conference Model-Based Reasoning in Scientific Discovery (MBR'04) 2004.

FONDAZIONE CARIPLO, International Cooperation with some Chinese Universities- 2005.

FONDAZIONE CARIPLO, International Cooperation with some Chinese Universities and publications of books in Chinese, 2005.

Other Local Funds:

COORDINATOR:

(Consiglio di Amministrazione) 1988-1999-2000.

COORDINATOR:

(University of Pavia - Departments of Computer Science, Philosophy, Statistics, Psychology, Economy) - Progetto di Ricerca di Ateneo -: Rationality and decision in social sciences, 1998 -2000.

CONFERENCE PAPERS AND SYMPOSIA (invited and submitted)

Conference The Heuristic View. Logic, Mathematics, and Science, 20-22 February 2023 , Rome, Department of Philosophy, Sapienza University: "Mathematics as Objective Knowledge: Discovering How to Make the World Intelligible" (invited speaker).

World Logic Day 2023 UNESCO, Do We Need a "Naturalization of Logic", Logic & Society Lectures, Organizers: Raffaella Giovagnoli (PUL, Vatican) & Wolfgang Hofkirchner (GSIS), January 14, 2023 (invited speaker)

Conferencia Magistral "Logic, fallacies, abduction. The importance of the Eco-Cognitive openness in human cognition" Academia Mexicana de Lógica, XXIV Encuentro Internacional de Didáctica de la Lógica, XI Simposio Internacional de Investigación en Lógica y Argumentación, Guadalajara, Mexico, November 22-26, 2022 (invited "magistral conferencia")

Conference "What philosophy at the beginning of the xxi century", University of Palermo, Palazzo Steri, presentation "The necessity of a philosophy as a vigorous, impertinent and profound understanding of violence", November 10-11, 2002 (invited speaker).

Teleconferencia "Model-based scientific cognition. Creativity and objectivity", XXVIII Jornadas de epistemología de las ciencias económicas, Buenos Aires, 28 of October 2022 (invited speaker)

International Workshop on Logic, Philosophy and History of Medicine, from 10/06/2022 to 10/07/2022, Facultad de Filosofía, Universidad de Sevilla, Calle Camilo José Cela, S/N, 41018 Sevilla, España: lecture "Biomedical epistemic niches, eco-cognitive openness, abduction. Jeopardizing biomedical creative abduction through impoverished epistemic niches (invited speaker).

Conference of the Académie Internationale de Philosophie des Sciences (Bruxelles): lecture "Explanation, creativity and discoverability in science", Alma Mater Ticinensis, Palazzo Vistarino, Lecture on "Discoverability -The Critical Need for and Ecology of Human Creativity, September 26 – October 1, 2022 (chair and speaker).

II Edizione del Festival "Primavera culturale", lecture "Il bisogno urgente di una ecologia della creatività umana" Bocca di Magra, Monastero Santa Croce September 23-25 (invited speaker).

Habitual Behavior 2022, Habits, Routines, Rituals, GSIS, Organized by Raffaella Giovagnoli, Pontifical Lateran University, and Irena Mostowicz, GSIS: lecture "Affording Consolidated Behavior through Habits and Rituals. A Semio-Physical Sketch", 26 of October 2022 (invited speaker).

The 4th Conference of the International Association for Cognitive Semiotics, presentation on lecture "Semiotic Brains and the Disembodiment of the Mind", Workshop Contemporary Semiotic Fitting, Chairs: K. Kull and S. Walsh Matthews (invited speaker)

IACS4 – Semiotic Complexities - Theory & Analysis

Conference Philosophical Implications of Digital Transformation, Pontifical Lateran University, April 27-28, lecture "Computational Machines and Human Creativity", April 28, 2022, (invited speaker).

World Logic Day on "Natural Computing" (Online Round Table), Dissipative Brains, Eccentric Computational Embodiments, Big Data, January 14, 2022 (invited speaker)

Causal ITALY2021 - 20th International Conference of the Italian Association for Artificial Intelligence, 30th November 2021, lecture "Naturalizing causality" (keynote speaker).

AppEEL (Applied Evolutionary Epistemology Lab) Webinar, lecture "Cognitive niches and moral bubbles". November 19, 2021 (invited speaker).

Conference of the Académie Internationale de Philosophie des Science: The Relevance of Judgment for Philosophy of Science, lecture "Discoverability in Scientific Abductive Cognition", Zadar, Croatia, October 13-15 (invited speaker).

International Conference LMET CONFERENCE 2021, The Modelling of Energy Transition – Cultures | Visions | Narratives, Münster, Germany, October 4-6, 2021, invited Valedictory Lecture: Model-based science as eco-epistemic warfare (invited speaker).

Symposium Morphological Computing of Cognition and Intelligence, September 16, 2021 (invited speaker): lecture Cognition through Organic Computerized Bodies. The Eco-Cognitive Perspective; at the Conference "Information Study for the Benefit of Humanity: Learning from the Past and Building the New Normal?" IS4SI 2021, September 12-19, 2021.

Workshop ICPI "Where is the I in AI and the Meaning in Information?": lecture Eccentric Computational Embodiments. Cognitive Domestication of External Entities (invited speaker), September 16, 2021: at the Conference "Information Study for the Benefit of Humanity: Learning from the Past and Building the New Normal?" IS4SI 2021, September 12-19, 2021.

Workshop Habits and Rituals, lecture Habits and Rituals as Stabilized Affordances and Pregnancies A Semiophysical Perspective (invited speaker): at the Conference "Information Study for the Benefit of Humanity: Learning from the Past and Building the New Normal?" IS4SI 2021, September 12-19, 2021.

PHAEDE panel. Lecture "The uniqueness of the unlocked character of human creative abductive inferences" (invited speaker): at the Conference "Information Study for the Benefit of Humanity: Learning from the Past and Building the New Normal?" IS4SI 2021, September 12-19, 2021.

ENACTING CHANCE, International Conference, Leyden, August 21-26, 2021 (invited speaker)

AISB 2021. Communication and Conversation, Symposium R&R 2020. Representation and Reality In Humans, Other Living Organisms and Machines, London, April 6-9, 2021 (invited speaker).

PHAEDE Conference (Cultural Challenges of Technology), Stefan Cel Mare University, Suceava, Romania, October 17-18, 2019 (keynote speaker).

EPHES Conference (Engineering Philosophy & Ethics in Society), Stefan Cel Mare University, Suceava, Romania October 17-19, 2019 (invited speaker).

Conference The Human Being Facing New Biomedical Technology, Including the Subject of Big Data, the role of Artificial Intelligence for their Analysis, Genome Editing and Personal Medicine, Session 2019 de l'Académie Internationale de Philosophie des Sciences, Prague August 12-13, 2019 (invited speaker).

Symposium Morphological Computing and Cognitive Agency, June 2 2019 (invited speaker): Disseminated Computation, Cognitive Domestication of New Ignorant Substrates, and Overcomputationalization; Fourth International Conference on Philosophy of Information, Tuesday June 4, 2019, Eccentric Computational Embodiments. Cognitive Domestication of External Entities (invited speaker) Workshop Habits and Rituals, June 4, 2019 (invited speaker): Ritual Artifacts as Memory Stores of Cognitive Habits: all at the Conference Where is the I in AI and the Meaning in Information? IS4SI 2019, Berkeley, US, June 2019.

KAIST International Workshop "Applicability of Mathematics in Science", September 6-7, 2018, KAIST, Daejeon, S. Korea (keynote speaker).

International Symposium on Abduction and Diagrams, Department of Innovation and Governance, School of Business and Governance, Tallinn University of Technology, Tallinn, Estonia, 6-8 of August (invited speaker).

UNILOG2018, Workshop "The Logic of Social Practices", Vichy, France, June 21, 2018 (invited speaker).

Conference "Foundations of Cyber-Physical Computation. Morphological and Embodied Computing, 7-8 May 2018 Gothenburg, Sweden (invited speaker).

Conference jointly organized by the Académie Internationale de Philosophie des Sciences and the Academia das Ciências de Lisboa, Lisbon, October 11-14, 2017 (invited speaker).

Workshop "Digital Culture and the Limits of Computation", Digital Humanities Lab, University of Sussex, Brighton, UK, September, 2017 (invited speaker).

Symposium Morphological Computing and Cognitive Agency, June 12, 2017 (invited speaker): Eco-Cognitive Computationalism. From "Mimetic Minds" to Morphology-Based Enhancement of "Mimetic Bodies"; Third International Conference on Philosophy of Information, June 13, 2017 (invited speaker), An Eco-Cognitive Perspective on the Philosophy of Information. Knowledge as a Duty, Workshop Habits and Rituals, June 15, 2017 (invited speaker): Ritual Artifacts as Symbolic Habits. Maximizing Abducibility and Recovering Memory: all at the Conference Digitalisation for a Sustainable Society. Embodied, Embedded, Networked, Empowered through Information, Computation & Cognition! Gothenburg, Sweden, June 2017.

Capire la violenza: l'intreccio fra moralità, religione e violenza, Workshop Violenti si nasce o si diventa? La violenza contro le donne, Aula Magna del Seminario Vescovile, Vigevano, May 6. 2017 (Invited Speaker).

Political correctness between wise stoicism and violent hypocrisy, Conference at 42nd Ass. for Moral Education Annual Conference. Symposium: From political correctness, Chair: Thalia Magloulou, 9 of Dec 2016 Graduate School of Education, Harvard University, Cambridge, MA (Invited Speaker).

International Conference Logical Foundations of Strategic Reasoning, KAIST, Daejeon, S. Korea, November 3-4 2016 (Invited Speaker).

Workshop Building Theories. Hypotheses & Heuristics in Science, University La Sapienza, Rome, June 16-18, 2016 (Invited Speaker).

Panathlon Club Pavia, Conviviale Campus Aquae "Lo sport tra etica e divertimento", November 19, 2015 (Invited Speaker).

2nd International Conference on Natural Cognition, "Rationality and Its Rivals", University of Macao, Macao, December 11-12, 2015 (Invited speaker).

Conference The Roots of Fictions, Possibilities and Imagination, University of Macao, Macao, December 5-6, 2015 (Invited speaker).

ISV 2015, XXI Conference of the International Association for Visual Semiotics, University of Liege, Liege, Belgium, September, 2015 (Keynote speaker).

Annual Conference of the Cognitive Science Society (CogSci2014), Pasadena, CA, USA, July 2015.

MBR015_ITALY Conference Model-Based Reasoning in Science and Technology, Sestri Levante, June 2015, Chair and Speaker.

Workshop on Scientific Modeling: Describing the Abstract and Representing the Real, Cyprus, University of Cyprus, Nicosia, May 2015 (Invited speaker).

Conference of the Italian Society of Philosophy of Language, University of Bologna, Department of Philosophy and Communication, Bologna, Italy, October 2014 (Keynote Speaker).

International Workshop Models and Inferences in Science, University of Rome "Sapienza", Department of Philosophy, Rome, Italy, September 2014 (Invited).

(ECAI2014), European Workshop on Chance Discovery and Data Synthesis, Czech Technical University, Prague, Faculty of Electrical Engineering, 18/22 August 2014.

Annual Conference of the Cognitive Science Society (CogSci2014), Ottawa, Canada, 2014.

International Conference "Square 2014 - 4th World Congress on the Square of Opposition", Vatican City, May 5-9, 2014 (Invited Keynote Speaker).

Library of Valle Lomellina, Seminar "Dio esiste?", Valle Lomellina, Pavia, Italy, April 24th, 2014.

Unione degli Atei e degli Agnostici Razionalisti, Seminar "Evoluzionismo, filosofia e religione", Pavia, Italy, March 1st, 2014.

International Conference PHEADE "Creativity, Entrepreneurship, Education and Spirituality in the Digital Era", Suceava, Romania, November/December 2013 (Keynote Speaker).

International Conference "What Affordance Affords", Darmstadt, Germany, November 25-27, 2013 (Invited Keynote Speaker).

Annual Conference of the Cognitive Science Society (CogSci2013), Berlin, Germany, 2013.

International Conference "Philosophy and Cognitive Science", Guangzhou, P. R. China, November 7-8, 2013 (Co-Chair and Keynote Speaker).

Workshop "Visual Abduction or Abductive Vision", KAIST (Advanced Institute of Science and Technology), Daejeon, South Korea, November 1-2, 2013 (Invited Keynote Speaker).

Fourth International conference on philosophy and cognitive science, PCS2013, Guangzhou, P. R. China, November 7-8, 2013 (Invited).

Workshop "Heuristic Reasoning", University of Rome La Sapienza, Rome, June, 2013 (Invited Keynote Speaker).

Seminars "L'esistenza umana alla prova della crisi del terzo millennio. Prospettive dalla clinica psicoanalitica e dalla pratica filosofica, Filosofia sui Navigli, Milan, March 2013 (Invited).

Seminars "The concept of scientific revolutions" and "The epistemological foundations of psychoanalysis", Aula Golgi, University of Pavia, Pavia, November 2012 and February 2013 (Invited).

MBR012_ITALY Conference Model-Based Reasoning in Science and Technology, Sestri Levante, June 2012, Chair and Speaker.

Workshop "Il veleno dell'invidia", CIPA, Italian Center of Analytical Psychology, December 2012, Milan, Italy (Invited).

SILFS 2012 Mid-term Conference of the Italian Society for Logic and Philosophy of Science, November 2012.

W-ETE 2012, The Wisdom in the Emergent Technologies Era, Pune, India, November 2012 (Invited Keynote Speaker).

The End of Science and Beyond, University of Kiel, Kiel, October 2012 (Invited Keynote Speaker)

Workshop "Alan Turing Legacy", University Rome 3, Rome, October, 2012 (Invited Keynote Speaker).

the 3rd PHEADE International Conference under the theme: Trends and Challenges in the Philosophy of Information, Suceava & Cernovtsy (Romania & Ukraine), October 13-16, 2011 (Invited Keynote Speaker).

XXXVII Italian Meeting of Cutaneous Histopathology, Turin, Italy, March 21-23, 2012 (Invited).

Philosopher's Reading Panel at the CPDP2011 on: Privacy and Due Process after the Computational Turn, Philosophers of law meet data scientists and philosophers of technology, 26th January, Bruxelles (Invited Keynote Speaker).

the 2nd PHEADE International Conference under the theme: The Engineered Singularity, Suceava & Cernovtsy (Romania & Ukraine), October 26-28, 2010 (Invited Keynote Speaker).

32th Annual Conference of the Cognitive Science Society (CogSci2010), Invited Workshop "Abduction and explanation" (with P. Thagard, P. Domingos, T. Lambrozo), Portland, US, 2010 (Invited).

KES2010, Invited Session on Chance Discovery, Cardiff, UK, September 2010.

Model-Based Reasoning in Science and Technology, UNICAMP, Campinas, (Co-Chair), December, 2009.

10th World Congress of Semiotics, Chair of the Round Table "Semiotics and Cognitive Science" (participants T. Deacon, Berkeley University, USA, C. Sihna, Portsmouth University, UK and F. Stjernfelt, Aarhus University, Denmark), A Coruña, Spain, September 24, 2009 (Invited).

XV Early Fall School in Semiotics EFSS'2009 "Sociosemiotics III", Granted Reasmus Intensive Program, New Bulgarian University, Sozopol, Bulgaria, September 9 and 11, 2009 (Invited).

IJCAI09 International Workshop on Abductive and Inductive Knowledge Development (AIAI09), Pasadena, CA, USA, July 12, 2009.

31st Annual Conference of the Cognitive Science Society (CogSci2009), Amsterdam, The Netherlands, July 29-August 2, 2009.

MBR09_BRAZIL Conference Model-Based Reasoning in Science and Technology, Campinas, December 2009, Chair and Speaker.

"mERGERS", Physical and Cognitive Mutations in Humans and Machines (in collaboration with "Virtual Laval"), Laval, France, April 2009 (Invited)

PHEADE. Philosophy of Engineering and Artefacts in the Digital Age, Stefan Cel Mare University, Suceava, Romania, February 2009 (Invited).

Transmodernity: Managing Global Communication, 2nd International Conference of the Romanian Association of Semiotic Studies, Slanic-Moldova, Romania, October 2008 (Invited).

KES2008, Invited Session on Chance Discovery, Zagreb, Croatia, September 2008.

World Congress of Philosophy. Rethinking Philosophy Today, Seoul National University, "Round Table Human Being, Sign, and Machine", chair, Seoul, South Korea, August 2008 (Invited).

World Congress of Philosophy. Rethinking Philosophy Today, Seoul National University, Seoul, South Korea, 2008.

Science, Technology, and Human Values in the Context of Asian Development, National University of Singapore, Singapore, 2008 (invited).

29th Annual Conference of the Cognitive Science Society (CogSci2007), Nashville, US, 2007.

9th ISINI Conference (International Society for Intercommunication of New Ideas), "managing Global Changes and Challenger", Bacau, Romania, August 2007 (Invited).

CODATA2006, 20th International CODATA Conference: Scientific Data and Knowledge within the Information Society, Discovery Workshop on "Interdisciplinary Communication for Risk Management with Multi-Data Mining", October 23-25, 2006, Beijing, P.R. China.

SMC2006, 2006 IEEE International Conference on Systems, Man, and Cybernetics, Workshop "Tools for Discovery, Decision, and Design" October 8-11, Taipei, Taiwan.

ECAI2006, Workshop Abduction and Induction in AI and Scientific Modeling (AIAI06), Riva del Garda, Italy, August 29, 2006.

MBR016_CHINA Conference Model-Based Reasoning in Science and Technology, Guangzhou, China July 2006, Chair and Speaker.

Why are we Junghian? Training, praxis, theory, methods, Residential Seminar, CIPA, Italian Center of Analytical Psychology, May 2006, Siracusa, Italy (Invited).

Creativity in Knowledge Society, Workshop, K.I.T.E, Biondustria Park of Canavese, Ivrea, May 2006 (Invited).

International Conference "Communication, Interpretation, Translation", University of Bari, Bari, February 16-18, 2006 (Invited).

4th International Workshop on *Chance Discovery: From Data Interaction to Scenario Creation*, International Conference on *Machine Learning* (ICML 2005), Bonn, Germany, August 11, 2005.

27th Annual Conference of the Cognitive Science Society (CogSci2005), Stresa, Italy, August 3-5, 2005.

The Second Joint International Workshop on Computational Creativity, IJCAI'05 (International Joint Conference of Artificial Intelligence), Edinburgh, UK, July-August 2005.

Workshop *Integration of Abduction and Induction in AI*, IJCAI'05 (International Joint Conference of Artificial Intelligence), Edinburgh, UK, Edinburgh, July 29, 2005.

International Colloquium *Demonstrative and Non-Demonstrative Reasoning*, University of Rome "La Sapienza", Rome, Italy, June 2005 (Invited).

European Computing and Philosophy Conference (E-CAP2005), Västerås, Sweden, June 2005 (Invited).

International Colloquium *Truth, Verisimilitude and Simulation Models. Functional Realism, Objectivism and Knowledge Construction*, University of Rome Tor Vergata, Rome, Italy, May 2005 (Invited).

Technology and the Changing Face of Humanity, Conference Canadian Jacques Maritain Association, The University of Western Ontario, May 2005 (Invited).

The Second Asia-Pacific Computing and Philosophy Conference (AP-CAP2005), Bangkok, Thailand, January 2005.

International Conference *Philosophy: Problems; Aims, Responsibilities*, Warwick, UK, September 2004.

International Conference Model-Based reasoning in Science and Engineering (MBR04), Pavia, Italy, December 2004 (Chair).

Seventh European Conference on Case-Based Reasoning (ECCBR-04), Workshop Computational Creativity 2004, Madrid, Spain, August 2004

ECAI04 European Conference on Artificial Intelligence, *First European Workshop on Chance Discovery*, Valencia, Spain, August 2004.

26th Annual Conference of the Cognitive Science Society (CogSci2004), Chicago, US, 2004.

Computing and Philosophy Conference (NA-CAP2004), Carnegie Mellon, Pittsburgh, US, 2004.

International Conference of Philosophy and Cognitive Sciences, Department of Philosophy, Zhongshan (Sun Yat-Sen) University, Guangzhou (Canton), China, June 2004, (Invited).

European Computing and Philosophy Conference (E-CAP2004_ITALY), Pavia, Italy, June 2004 (Chair).

Third International Workshop Computational Models of Scientific Reasoning and Applications (III CMSRA), Buenos Aires, Argentine, September 2003 (Invited).

European Conference of the Cognitive Science Society CogSci2003 Europe, 2003.

25th Annual Conference of the Cognitive Science Society, Boston, USA, July 2003.

HCI2003 Workshop on "Chance Discovery and Its Management", Crete, June 27, 2003

International Conference Cognition, Meaning, and Reality, University of Rome III, Rome, Italy, 2003 (Invited)

AISB03 Convention AI and Creativity in Arts and Science, Aberystwyth, UK, 2003.

Computing and Philosophy, University of Glasgow, Glasgow, UK, 2003.

Cognition and Rationality. Being Rational, Models and Limits of Rationality in Scientific research, Economic Behavior, Common Sense Reasoning, University of Padua, Padua, Italy, 2003 (Invited).

National Workshop on Didactics of Mathematics, Department of Mathematics, University of Pisa, Pisa, Italy, 2003 (Invited).

PRICAI-02 Conference, Workshop on Chance Discovery, Tokyo, Japan, 2002.

Discovery Science Conference, DS2002, Luebek, Germany, 2002.

ECCE 11, Cognition, Culture, and Design, Catania, Italy, 2002.

AISB02 Convention AI and Scientific Discovery, London, UK, 2002.

Second International Workshop Computational Models of Scientific Reasoning and Applications (II CMSRA), Las Vegas, USA, 2002 (Invited paper).

International Conference Causation and Explanation in Natural and Social Sciences (CENSS2002), Ghent, Belgium, 2002.

Workshop L'élaboration de formes est-elle le moteur de la cognition? Ecole Normale Supérieure, Paris, France, 2002 (Invited paper).

Workshop Scientific Reasoning in AI and Philosophy of Science, ECAI 2002, London, UK, 2002.

International Conference Model-Based Reasoning: Scientific Discovery, Tehcnological Innovation (MBR'01), Values, Pavia, Italy, 2001 (Invited paper).

23rd Annual Conference of the Cognitive Science Society (CosSci2001), Edinburgh, UK, 2001.

IJCAI01 Workshop on Abductive Reasoning, Seattle, USA, 2001 (Invited paper).

European Conference on Machine Learning, ECML/PHDD, Workshop Machine Learning as Experimental Philosophy of Science, Freiburg, Germany, 2001 (Invited paper).

HPTM'01, Hypertextets Hypermédiass Conference, Valenciennes, France, 2002.

Workshop Scientific Reasoning in AI and Philosophy of Science, ECAI 2000, Berlin, Germany, 2000.

International Congress on Incommensurability, Hannover, Germany, 1999.

21st Annual Conference of the Cognitive Science Society (COGSCI'99), Vancouver, Canada, 1999.

AISB99 Convention AI and Scientific Discovery, Edinburgh, Great Britain, 1999.

International Conference Model-Based Reasoning in Scientific Discovery (MBR'98), Pavia, Italy, 1998 (Invited paper).

Third International Workshop on Human and Machine Perception, Pavia, Italy, 1998 (Invited paper).

Twentieth World Congress of Philosophy, Boston, USA, 1998 (Conference and Symposia).

International Congress on Discovery and Creativity (ICDC), Ghent, 1998 (Invited paper)

International Congress Non Conventional Medicine, Pavia, Italy, 1998 (Invited paper).

International Conference Child and Science, Pavia, 1998 (Invited paper).

International Congress Culture and Spirituality, Pavia, Italy, 1997 (Invited paper).

Società Filosofia Italiana (SFI) National Congress, Bari, Italy, 1997 (Invited paper).

Workshop Nuove frontiere della scienza, Lecco, Italy, 1997 (Invited).

International Conference Chaos, Fractals, Models 96, Pavia, Italy, 1996 (Invited paper).

AAAI Spring Symposium on Computational and Cognitive Models of Spatial Representation, Stanford, CA, USA, 1996.

Colloquium Medicine and Ethics, Varese, Italy, 1996 (Invited paper).

Triennial Colloquium of the Italian Society for the Philosophy of Science (SILFS), Rome, Italy, 1996.

10th Congress of Logic, Methodology, and Philosophy of Science, Florence, Italy, 1995.

Colloquium With Darwin beyond Descartes, Pavia-Como, Italy, 1994 (Invited paper).

International School Biocybernetics of Vision, Ischia, Naples, Italy, 1994 (Invited paper).

Colloquium Creative Potential. Exploration and Development, Pavia, Italy, 1994 (Invited paper).

Triennial Colloquium of the Italian Society for the Philosophy of Science (SILFS), Rome, Italy, 1993.

Colloquium A. Banfi: Modernity and Crisis, Reggio Emilia, Italy, 1993 (Invited paper).

First International Workshop on Perception. Human and Machine Vision, Pavia, Italy, 1993 (Invited paper).

Gauss Symposium, Munich, Germany, 1993 (Invited paper).

Colloquium L. Geymonat and Philosophy of Science in Italy, Rovigo, Italy, 1992 (Invited paper).

Advanced NATO Workshop on Advanced Models of Cognition for Medical Training and Practice, Castelveccchio Pascoli, Italy, 1991 (Invited paper).

Colloquium History and Philosophy of Science in Italy from 1945 to recent times, Forlì, Italy, 1991 (Invited paper).

Colloquium Peirce in Italy, Naples, Italy, 1990 (Invited paper).

International Symposium on Structures in Mathematical Theories, San Sebastian, Spain, 1990.

First Conference of Italian Association for Artificial Intelligence (AIIA), Trento, Italy, 1989.

Colloquium Psychoanalysis in Question, Florence, Italy, 1989 (Invited paper).

Colloquium Ematologia 88: Clinical methodology, Ustica, Italy, 1988 (Invited paper).

Colloquium CC20, Communication and Cognition, Applied Epistemology, Ghent, Belgium, 1987.

Colloquium La portée européenne des traditions épistémologiques italiennes, Paris, November 3-5, 1987 (Invited paper).

INVITED ACADEMIC PRESENTATIONS

Good science across diversity of research environments, Round table, Venice; 7 July 2022
Aula Biral, 4th floor Dept of Philosophy and Cultural Heritage, Ca' Foscari, organized by E-Montuschi and S. Leonelli.

Seminars FiloLOGICA, proposed by Guido Gherardi, Eugenio Ornandelli, Riccardo Zanichelli, University of Bologna: Lorenzo Magnani, Logic, fallacies, "military intelligence", Thursday June 23, 2022.

Conferenza "Associazione Democrito", Scienza e creatività. La conoscenza come dovere, Collegio Cairoli, Pavia, May 14, 2022.

Conferenza Webinar, Epistemic and Moral Bubbles, Dept. of Psychology, Catholic University of the Sacred Heart, Milan, April, 15, 2021.

[] Colloquium for the Series "Understanding the Nature of Inference: Correlation & Causation, a Multi-Disciplinary View", Lecture "Are Scientific Models Fictions? Model-Based Science as Epistemic Warfare", Thursday 22nd - 3:00pm (Yale Time), Yale University, New Haven, CT, April 22, 2021.

ALOPHIS (Applied LOGic, Philosophy and HIstory of Science) Weekly Seminars, Dipartimento di Pedagogia, Psicologia, Filosofia Università degli Studi di Cagliari, March 23, 2021.

Come un fiore reciso. Diritti e doveri al tempo della pandemia, Caffè letterario 2020/2021 Liceo Melchiorre Gioia Piacenza, 26 March, 2021.

Lorenzo Magnani, Moral Bubble Effect, III World Logic Day, on January 14, 2021 Rome, <https://en.unesco.org/commemorations/worldlogicday>

University Ca' Foscari, Dipartimento di Filosofia e Beni Culturali, Hypothetical reasoning in an eco-cognitive perspective, October 11, 2018, Venice, Italy (Zero - Laboratorio di Filosofia - Conferenze Logos).

University of Pavia, Department of Humanities, Philosophy Section, Abduction. An Eco-Cognitive Perspective, Lectio Magistralis, Official Opening of the New 2018-2019 Academic Year, Philosophy, September 24, 2018.

Catholic University of Milan Research Unit for Philosophy of Psychology, Department of Psychology - Seminars Subjectivity, Self, and Self-consciousness, Milan, Italy, June 5, 2018.

ADET Accademia di Ecografia Toracica, 1° Convegno Nazionale ADET, Sala Rappresentanza Facoltà di Giurisprudenza, Università degli Studi di Milano, Milan, Italy, Sept. 30, 2017.

"Filosofia in $\frac{3}{4}$ e Spazio Sociale Sei", Link and Cds Università del Salento, Philosophy of Violence, Lecce, Italy, April 21, 2016.

Università degli Studi di Cagliari, Dipartimento di Pedagogia, Psicologia e Filosofia, Seminar on Errors of Reasoning Vindicated, Cagliari, Italy, February 4, 2016.

Goldsmiths University of London, Seminar on Computation and Logic, Organised by the Digital Culture Unit, at the Centre for Cultural Studies, "Eco-Cognitive Abduction", London, UK, November 26, 2015.

Sun Yat-Sen University, Department of Philosophy, "Eco-Cognitive Epistemology", Invited Lecture, Guangzhou, P. R. China, November 13, 2015.

Sun Yat-Sen University, Department of Social Science and Education, "Italy's Marxist Revolutionary Tradition", Invited Lecture, Guangzhou, P. R. China, November 12, 2015.

University of Chieti/Pescara, Indagine sulle leggi del pensiero. In occasione dei 200 anni dalla nascita di George Boole, Invited Lecture, Chieti, Italy, November 30, 2015.

University of Bologna, Scuola Superiore di Studi Umanistici, Seminar "Modelli della spiegazione: logica, scienza, cognizione", Invited Lecture, Bologna, October 21, 2015.

University of Bologna, Seminar "Errare è umano....perseverare è scientifico" Invited Lecture, Bologna, Italy, February, 11, 2014.

South China University of Technology, Invited Lecture, Guangzhou, P. R. China, November 8, 2013.

University of Trento, Seminar "Filosofia, Scienza e Società", Invited Lecture, Trento, Italy, October, 10, 2013.

Pennsylvania University, Penn Center for Italian Studies and Institute of Research in Cognitive Science, International Seminar "Mind and Science", October 3, 2013

University of Rome La Sapienza, Department of Philosophy, Invited lecture, Rome, May 15-16, 2012.

Engineering, Philosophy, and Ethics of the Knowledge Society Searching for a Spiritual Turn (EPHES-SST-2012), Attribution of the title of Doctor Honoris Causa Awarded to Lorenzo Magnani, Suceava. Romania, March 2012.

National Conference "La medicina assicurativa: etica, deontologia, diritto", University of Insubria, Varese, Italy.

ISBEM, Istituto Scientifico Biomedico Euro Mediaterraneo, Mesagne-Lecce, Italy, March 2011.

University of Salento, Department of Philosophy, Lecce, Italy, March 2011.

University of Aarhus, Center for Semiotics, Diagrams and the Extended Mind, Aarhus, Denmark, November 2010.

University of Aalborg, Department of Learning, Education and Philosophy Aalborg, Denmark, February 2009.

Sun Yat-sen University, Department of Philosophy, Guangzhou, P. R. China, December 2008.

Polish Academy of Sciences (Philology - Wroclaw Section), University of Wroclaw, Wroclaw, Poland, December 2008.

Boston Colloquium for the Philosophy of Science, "Trends of Philosophy of Science in Italy", Boston, USA, September 2007.

Conference "Applying Peirce", in conjunction with the 9th World Congress of the International Association for Semiotic Studies, Helsinki, June 2007.

International Conference "Human Being in Contemporary Philosophical Conceptions", Volgograd State University, Russia, May 2007.

South China University of Technology, School of Politics and Public Administration, Invited Lecture, Guangzhou, P. R. China, July 4, 2006.

Abduction and the Process of Scientific Discovery, Centro de Filosofia des Ciências da Universidade de Lisboa, Lisboa, Portugal, May 2006.

Computers and Philosophy, and International Conference, Le Mans University, Laval, France, May 2006.

Universidad Nacional Autonoma de Mexico, Instituto de Investigaciones Filosoficas, Mexico City, October 2005.

Alan Mathison Turing. L'uomo, la macchina, l'enigma, University of Milan, Milan, 2004.

Mente e Cervello, Associazione Trentino-Alto Adige "Neuroscience 2000" and Laboratorio di Scienze Cognitive, University of Trento, Rovereto (Trento), 2004.

Baruch College, The City University of New York, Dept. of Philosophy, New York, USA, November 2003.

Mathesis, Department of Mathematics and Computer Science, University of Udine, Udine, Italy, 2003.

Mathesis 2002-2003, Department of Mathematics, University of Pavia, Pavia, Italy, 2003.

Ivan Allen College Forum, Georgia Institute of Technology, GA, USA, 2002.

Ecole Normale Supérieure, Séminaire de Philosophie et Mathématiques, Paris, France, 2002.

School of Public Policy, Georgia Institute of Technology, Atlanta, USA, 2001.

Department of Philosophy and Laboratory for Artificial Intelligence Research, Computer and Information Science Department, Ohio State University, Columbus, Ohio, USA, 2000.

Collegio Borromeo, University of Pavia, Italy, 1999.

Cognitive Science Program, College of Computing, Georgia Institute of Technology, Atlanta, USA, 1999.
Department of Psychology, University of Milan Bicocca, 1999.
Department of Philosophy, University of Amsterdam, The Netherlands, 1999.
Department of Computer Science, University of Dublin, Ireland, UK, 1999.
Scuola Avanzata di Informazione Integrata (SAFI), Pavia 1999.
Scuola Universitaria Superiore (SUS), Pavia, 1999.
College of Computing, Georgia Institute of Technology, Atlanta, GA, USA, 1995, 1998, 1999.
Department of German Language and Literature, University of Antwerp, Belgium, 1998.
Department of Nuclear Physics, University of Pavia, Pavia, Italy, 1998.
Cognitive Science Center, Pavia, Italy, 1994, 1995, 1996, 1997, 1998.
Department of Psychology, Faculty of Medicine, Milan, Italy, 1997.
Faculty of Economy, University of Pavia, Pavia, Italy, 1995.
Department of Classical and Mediaeval Philology, University of Lecce, Italy, 1995.
C.I.R.M.S., Department of Physics, University of Rome La Sapienza, Rome, Italy, 1995.
Department of Computer Science, University of Turin, Turin, Italy, 1995.
Department of Physics, University of Pavia, Pavia, Italy, 1995.
Department of Mathematics, University of Pavia, Pavia, Italy, 1993, 1995, 1996, 1997, 1998, 1999.
Cognitive Science Laboratory, Princeton University, NJ, USA, 1993
Department of Philosophy, University of Waterloo, Canada, 1993.
Department of Philosophy, Carnegie Mellon University, Pittsburgh, PA, USA, 1992.
Laboratory of Cognitive Studies, Faculty of Medicine, McGill University, Montreal, Canada, 1992.
GAMES-II Medical Committee Meeting, Slough, London, UK, 1992.
Scuola di Specializzazione in Medicina Interna e Scuola di Specializzazione in Gastroenterologia, IRCCS Policlinico S. Matteo, University of Pavia, Pavia, Italy, 1987.

SELECTED PUBLICATIONS

BOOK SERIES EDITOR

2011- **current**. Studies in Applied Philosophy, Epistemology and Rational Ethics (**SAPERE**)
Springer Science + Business Media LLC New York and Springer Japan KK.

BOOKS:

L. Magnani and R. Gennari (2022), *Logic Textbook. Classical Logic and Commonsense Logic*, Guerini & Associati, Milan, New Edition ed. By R. Dossena (in Italian).

L. Magnani (2022), *Philosophy of Violence*, Mimesis, Milan, (in Italian, second Italian edition of L. Magnani, *Understanding Violence. The Intertwining of Morality, Religion and Violence: A Philosophical Stance*, Springer, Heidelberg/Berlin, 2011; Translation of T. Bertolotti).

L. Magnani (2022), *Discoverability. The Urgent Need of an Ecology of Human Creativity*, Springer, Cham, Switzerland.

L. Magnani (2022), *Eco-Cognitive Computationalism. Cognitive Domestication of Ignorant Entities*, Springer, Cham, Switzerland.

L. Magnani (2019), *Conoscenza come dovere. Moralità distribuita in un mondo tecnologico*, Aracne, Rome (second edition of L. Magnani (2007), *Morality in a Technological World. Knowledge as Duty*, Cambridge University Press, Cambridge).

- L. Magnani (2017), *The Abductive Structure of Scientific Creativity. An Essay on the Ecology of Cognition*, Springer, Cham, Switzerland.
- L. Magnani (2013), *Respecting people as things*, Il Melangolo, Genoa (in Italian).
- L. Magnani (2012), *Philosophy of Violence*, Il Melangolo, Genoa, (in Italian, Italian edition of L. Magnani, *Understanding Violence. The Intertwining of Morality, Religion and Violence: A Philosophical Stance*, Springer, Heidelberg/Berlin, 2011; Translation of T. Bertolotti).
- L. Magnani (2011), *Understanding Violence. The Intertwining of Morality, Religion and Violence: A Philosophical Stance*, Springer, Heidelberg/Berlin.
- L. Magnani (2009), *Abductive Cognition. The Epistemological and Eco-Cognitive Dimensions of Hypothetical Reasoning*, Springer, Berlin/Heidelberg.
- L. Magnani (2009), *Morality in a Technological World. Knowledge as Duty*, Cambridge University Press, Cambridge (Paperback).
- L. Magnani (2007), *Morality in a Technological World. Knowledge as Duty*, Cambridge University Press, Cambridge.
- L. Magnani (2005), *Knowledge as a Duty. Distributed Morality in a Technological World*, Associated International Academic Publishers, Pavia, 2005 (in Italian).
- L. Magnani (2001), *Philosophy and Geometry. Theoretical and Historical Issues*, Kluwer Academic, Dordrecht.
- L. Magnani (2001), *Abduction, Reason, and Science. Processes of Discovery and Explanation*, Kluwer Academic/Plenum Publishers, New York. (Chinese edition: [意] 洛伦佐·玛格纳尼 / 著; 李大超, 任远 / 译, 《溯因、理由与科学——发现和解释的过程》, 中国广州: 广东人民出版社2006年. Translated by Dachao Li and Yuan Ren, Guangdong People's Publishing House, Guangzhou, 2006).
- L. Magnani and R. Gennari (1997), *Logic Textbook. Classical Logic and Commonsense Logic*, Guerini & Associati, Milan, 1997 (in Italian).
- L. Magnani (1997), *Knowledge Engineering. Introduction to Computational Philosophy*, Marcos y Marcos, Milan, 1997 (in Italian).
- L. Magnani (1991), *Applied Epistemology*, Marcos y Marcos, Milan, 1991 (in Italian).
- L. Magnani (1990), *Philosophy and Geometry*, Guerini & Associati, Milan, 1990 (in Italian).
- A. Mangiarotti, L. Bonesio, M. Luchi, and L. Magnani (1987), *In Behalf of Architecture*, Jaca Book, Milan, 1987 (in Italian).
- L. Magnani (1978), *Non Euclidean Geometries*, Zanichelli, Bologna, 1978.

EDITED HANDBOOKS

Handbook of Abductive Cognition, Springer (Editor-in Chief), 2023.

Springer Handbook of Model-Based Science (Editor-in-Chief with T. Bertolotti), 2017.

EDITED BOOKS:

S. Arfini and L. Magnani (eds.) (2022), *Embodied, Extended, Ignorant Minds. New Studies on the Nature of Not-Knowing*, Book Series "Synthese", Springer, Cham.

A. Nepomuceno, L. Magnani, F. Salguero, C. Barés and M. Fontaine (eds.) (2019), *Model-Based Reasoning in Science and Technology - Inferential Models for Logic, Language, Cognition and Computation*, Springer, Cham, Switzerland.

D. Gabbay, L. Magnani, W. Park, and A.-V. Pietarinen, eds., *A Tribute for John Woods*, College Publications, London, pp. 269-308.

L. Magnani and C. Casadio (eds.) (2016), *Model-Based Reasoning in Science and Technology. Logical, Epistemological, and Cognitive Issues*, Springer, Cham, Switzerland, Series "Sapere".

L. Magnani, P. Li, and W. Park (eds.) (2015), *Philosophy and Cognitive Science II, Western and Eastern Studies*, Series "Sapere", Vol. 20, Springer, Heidelberg/New York.

L. Magnani (ed.) (2013), *Introduction to the New Logic*, Il Melangolo, Genoa (in Italian).

L. Magnani (ed.) (2013), *Model-Based Reasoning in Science and Technology. Theoretical and Cognitive Issues*, Series "Sapere", Vol. 8, Springer, Heidelberg/Berlin.

L. Magnani and Li Ping (eds.) (2012), *Philosophy and Cognitive Science. Western and Eastern Studies*, Series "Sapere", Vol. 2, Springer, Heidelberg/Berlin.

L. Magnani, W. Carnielli, C. Pizzi (eds.) (2010), *Model-Based Reasoning in Science and Technology. Abduction, Logic, and Computational Discovery*, Series "Studies in Computational Intelligence", Vol. 314, Springer, Heidelberg/Berlin.

S. Iwata, Y. Oshawa, S. Tsumoto, N. Zhong, Y. Shi, and L. Magnani (eds.) (2008). *Communications and Discoveries from Multidisciplinary Data*, Series "Studies in Computational Intelligence", Springer, Berlin/New York.

L. Magnani and P. Li (eds.) (2007), *Model-Based Reasoning in Science, Technology, and Medicine*, Series "Studies in Computational Intelligence", Vol. 64, Springer, Berlin/New York.

L. Magnani and P. Li (eds.) (2006), *Philosophical Investigations from a Perspective of Cognition*, Guangdong People's Publishing House, Guangzhou, (published in Chinese: [意] 洛伦佐·玛格纳尼、李平主编, 《认知视野中的哲学探究》, 中国广州: 广东人民出版社2006年).
Preface by L. Magnani, pp. 1-3.

L. Magnani (2006) (ed.), *Model-Based Reasoning in Science and Engineering. Cognitive Science, Epistemology, Logic*, College Publications, London.

L. Magnani (ed.) (2006), *Computing and Philosophy*, Associated International Academic Publishers, Pavia (Proceedings of the International Conference E-CAP2004).

L. Magnani and R. Dossena (eds.) (2005), *Computing, Philosophy and Cognition*, College Publications, London (Proceedings of the conference E-CAP2004).

L. Magnani and N. J. Nersessian (eds.) (2002), *Model-Based Reasoning. Scientific Discovery, Technological Innovation, Values*, Kluwer Academic/Plenum Publishers, New York.

L. Magnani, N. J. Nersessian, and C. Pizzi (eds.) (2002), *Logical and Computational Aspects of Model-Based Reasoning*, Kluwer Academic, Dordrecht.

L. Magnani, N. J. Nersessian, and P. Thagard (eds.) (1999), *Model-Based Reasoning in Scientific Discovery*, Kluwer Academic/Plenum Publishers, New York, (Chinese edition, translated and edited by Qiming Yu and Tianen Wang, China Science and Technology Press, Beijing, 2001: 《科学发现中的模型化推理》，于祺明、王天思主译，中国北京：中国科学技术出版社2001年) .

L. Magnani and R. Dossena (eds.) (2004), *Felix Klein: the Erlanger Program*, Pristem/Storia, Springer, Milan (in Italian).

EDITED JOURNAL ISSUES

A. Nepomuceno, L. Magnani, F. Salguero, C. Barés and M. Fontaine (eds.) (2019) (guest editors), Special Issue on "Formal representations of model-based reasoning and abduction", *Logic Journal of the IGPL*, 29(4) (2021).

L. Magnani and S. Arfini (eds.) (2021) (guest editors), Special Issue on "Knowing the Unknown: Philosophical Perspectives on Ignorance", *Synthese*, 198 (2021).

L. Magnani and C. Casadio (guest editors), Special Issue on "Formal representations of model-based reasoning and abduction", *Logic Journal of the IGPL*, 24(4) (2016).

L. Magnani (guest editor), Special Issue on "Frontiers of abduction", *IfCoLog Journal of Logics and their Applications*, 3(1) (2016).

L. Magnani (guest editor), Special Issue on "Formal representations in model-based reasoning and abduction", *Logic Journal of the IGPL*, 21(6) (2013).

L. Magnani, W. Carnielli and C. Pizzi (guest editors), Special Issue on "Formal representations in model-based reasoning and abduction", *Logic Journal of the IGPL*, 20(2) (2012).

L. Magnani, E. Bardone, and T. Bertolotti (guest editors), Special Issue on "Uncovering Violence as Technology-Mediated in Contemporary Societies", *International Journal of Technoethics* 2(4) (2011).

L. Magnani (guest editor), Special Issue on "Model-based reasoning in science and engineering", *Foundations of Science* 13(2) (2008).

L. Magnani (guest editor), Special Issue on "Tracking irrational sets. Science, technology, ethics", *Foundations of Science* 13(1) (2008).

L. Magnani (guest editor), Special Issue on "Abduction, practical reasoning, and creative inferences in science", *Logic Journal of the IGPL* 14(2) (2006).

L. Magnani (guest editor, with N. J. Nersessian), special issue on "Model-based reasoning: visual, analogical, simulative", *Foundations of Science* 10 (2005).

L. Magnani (guest editor, with N. J. Nersessian), special issue on "Abductive reasoning in science", *Foundations of Science* 9 (2004).

L. Magnani (guest editor, with N. J. Nersessian), special issue on "Scientific reasoning: model-based reasoning", *Mind & Society* 5(3) (2002).

L. Magnani (guest editor, with N. J. Nersessian L. Magnani (guest editor, with N. J. Nersessian), special issue on "Commonsense and scientific reasoning", *Mind & Society* 4(2) (2001).

L. Magnani (guest editor, with N. J. Nersessian and P. Thagard), special issue on "Model-based reasoning in science: learning and discovery", *Foundations of Science*, 5(2) 2000.

L. Magnani (guest editor, with N. J. Nersessian and P. Thagard), special issue on "Abduction and scientific discovery", *Philosophica* 61(1) 1998.

L. Magnani (guest editor, with N. J. Nersessian and P. Thagard), special issue on "Analogy and mental modeling in scientific discovery", *Philosophica* 61(2) 1998.

L. Magnani (guest editor), *Intelligibilità e costruzione scientifica*, Angeli, Milan, 1985, pp. 161-186. L. Magnani (guest editor), *Epistemologie dell'invenzione*, Angeli, Milan, 1984, pp. 89-114.

LORENZO MAGNANI'S BOOKS REVIEWED IN INTERNATIONAL JOURNALS:

AI & Society, <https://doi.org/10.1007/s11191-020-00190-> J. White (2022), *Lorenzo Magnani: Discoverability—the urgent need of an ecology of human creativity*, Springer Nature Switzerland AG, Switzerland, Volume 26, ISSN 2214-9120, ISBN 978-3-030-93328-9 (hardcover), ISSN 2214-9139, ISBN 978-3-030-93329-6 (eBook).

Transactions of the Charles S. Peirce Society 56 (3):456-465 (2021), W. Park, review of *The Abductive Structure of Scientific Creativity: An Essay on the Ecology of Cognition* by L. Magnani, Springer, Cham, Switzerland.

Odisseo.it (Navigatori della Conoscenza) www.odysseo.it, 28 of May, 2020, M. Castellana, *Per una visione eco-cognitiva della ragione e della scienza*, Review of L. Magnani, *The Abductive Structure of Scientific Creativity. An Essay on the Ecology of Cognition*, Springer, Cham.

International Studies in the Philosophy of Science 32 (1):65-67 (2019), D. Chiffi, *Springer Handbook of Model-based Science: edited by Lorenzo Magnani and Tommaso Bertolotti*, Cham, Springer, 2017, xl + 1179 pp.

Micromeda online (Rileggiamoli insieme), (2018), E. Giorza, *Un moderno panopticon: Internet e la società dell'ignoranza*, review of the First Italian Edition (*Conoscenza come dovere. Moralità distribuita in un mondo tecnologico*, Associated International Academic Publishers, Pavia 2005) of Lorenzo Magnani, *Morality in a Technological World. Knowledge as Duty*, Cambridge University Press, Cambridge, 2007.

International Studies in the Philosophy of Science, 2015, 29(1):105-108, Matthijs Kouw, Review of L. Magnani (Ed.), *Model-based Reasoning in Science and Technology: Theoretical and Cognitive Issues*, Springer, Berlin/Heidelberg.

Minds and Machines, 2015, 25:115-117, Jordi Vallverdú, Review of L. Magnani and P. Li (Eds.): *Philosophy and Cognitive Science: Western and Eastern Studies*, Springer, Berlin.

Mind & Society, 2013, 12:273-276, R. Tweney, Review of L. Magnani & P. Li (Eds.) *Philosophy and Cognitive Science: Western & Eastern Studies*, Springer-Verlag, Berlin-Heidelberg.

Revue de Synthèse, 2014, 135-6(4):434-436, Mario Castellana, Review of the Italian edition (*Filosofia della violenza*, Il Melangolo, Genoa, 2012, translated by T. Bertolotti) of *Understanding Violence: The Intertwining of Morality, Religion and Violence: A Philosophical Stance*. Berlin: Springer-Verlag.

Teologia, 2013, 38(2): 318-321. A. Zambarbieri, Review of the Italian edition (*Filosofia della violenza*, Il Melangolo, Genoa, 2012, translated by T. Bertolotti) of *Understanding Violence: The Intertwining of Morality, Religion and Violence: A Philosophical Stance*. Berlin: Springer-Verlag.

Frontiere. Rivista di Filosofia e Teologia (Istituto Teologico "Santa Fara" della Facoltà Teologica Pugliese), 2013:10, 387-389. Mario Castellana, Review of the Italian edition (*Filosofia della violenza*, Il Melangolo, Genoa, 2012, translated by T. Bertolotti) of *Understanding Violence: The Intertwining of Morality, Religion and Violence: A Philosophical Stance*. Berlin: Springer-Verlag.

Ethical Theory and Moral Practice, 2013; 16:1089-1092. Anton van Harskamp Book Review: Lorenzo Magnani, *Understanding Violence. The Intertwining of Morality, Religion and Violence: A Philosophical Stance*, Springer-Verlag, Berlin-Heidelberg, 2011.

Mind & Society, 2013, 12(2):257-262. Massimo Durante, Book Review: Lorenzo Magnani, *Understanding Violence. The Intertwining of Morality, Religion and Violence: A Philosophical Stance*, Springer-Verlag, Berlin-Heidelberg, 2011.

Technometrics, (Book Reviews) 54:3, 319-331, 2012. Stan Lipovetsky, Review of *Understanding Violence: The Intertwining of Morality, Religion and Violence: A Philosophical Stance*. Berlin: Springer-Verlag.

Biosemiotics, 5, 2012, 439-444. Jeffrey Benjamin White, Reflections on Understanding Violence, Lorenzo Magnani: *Understanding Violence: The Intertwining of Morality, Religion and Violence: A Philosophical Stance*. Berlin: Springer-Verlag, 2011.

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L. Magnani (1976-1982) 387 References on History of science, *Enciclopedia Europea*, Garzanti, Milan (1976-1982), vols. IV, V, VI, VII, VIII, XI (Euclid; Linnaeus, C.; Schleiden, M.; Schwann, T. - signed; Erasistratus; Eratosthenes; Eudoxus, Euler, L.; Fermat, P. de; Fermi, E.; Fibonacci, L.; Fourier, J. B. J.; Fracastoro, G.; Fraenkel, A.; Franklin, B.; Galenus; Galois, E.; Galvani, L.; Gauss, K. F.; Haeckel, E. H.; Harvey, W.; Helmholtz, H. L. F. von; Helmont, J. B. van; Herschel, F. W.; Humboldt, A. von; Huxley, J. S.; Huygens, C.; Hipparchus; Hippocrates; Hippocrates of Chios; Kirchhoff, G. R.; Lagrange, G. L.; Laplace, P. S. de; Leakey, L. S.; Lomonosov, M. V.; Lorentz, H. A.; Magalotti, L.; Malpighi, M.; Matteucci, C.; Maupertuis, P.-L. M. de; Morgagni, G.; Oken, L.; Pasteur, L.; Pavlov, I. P.; Virchow, R.).

L. Magnani (1975), *Premessa*, in: Reprint (1975) of R. Bonola, *La geometria non-euclidea. Esposizione storico-critica del suo sviluppo*, Zanichelli, Bologna, 1906, pp. V-XII.

EDITED TRANSLATIONS

L. Magnani (ed.) (1998), Italian edition of P. Thagard, *Mind. Introduction to Cognitive Science* (The MIT Press, 1996), Guerini & Associati, Milan, 1998.

L. Magnani (ed.) (1994), Italian edition of P. Thagard, *Conceptual Revolutions* (Princeton University Press, 1992), Guerini & Associati, Milan, 1994.

TRANSLATIONS

B. d'Espagnat, *Alla ricerca del reale*, Boringhieri, Turin, 1982 (from French).

S. Sarduy, *Barroco*, Il Saggiatore, Milan, 1980 (from French).

Enciclopedia Einaudi, Einaudi, Turin, 1977-1984: Headwords translated from French: P. Rosenstiehl, grafo, labirinto, rete; J. Petitot, infinitesimale, locale/globale, unità delle matematiche; P. Delattre, teoria e modello.

Languages: Italian, English, French.

TEACHING

Courses:

In USA:

Course: SPECIAL STUDIES IN PHILOSOPHY: PHILOSOPHY OF SCIENCE, Course 3990 (Baruch College, The City University of New York, New York, USA)

2003 (Fall Semester) Introduction to philosophy of science. Problems in philosophy of science: abduction, epistemological problems of human and social sciences, epistemology and cognitive science.

Course: MATHEMATICAL LOGIC, Course PST 4903 (Georgia Institute of Technology, Atlanta, USA)

2002 (Fall Semester) Elementary logic. Propositional and first order logic. Resolution and algorithms. Hilbert systems. Nonmonotonic logic. Gödel theorem.

Course: PERSPECTIVES IN SCIENCE AND TECHNOLOGY, Course PST 4174 (Georgia Institute of Technology, Atlanta, USA)

2002 (Fall Semester) The nature and role of observation, experimentation, reasoning in science and technology a comparative analysis from the perspectives of different interpretive frameworks: philosophical, historical, cognitive, gender, sociological, and anthropological.

Course: SCIENCE, TECHNOLOGY, AND HUMAN VALUES, Course PST 3127 (courses B and C) (Georgia Institute of Technology, Atlanta, USA)

2000 (Fall Semester) Exploration of the boundaries between science, religion and social values. Cognitive models of artifacts, technological thinking, and ethical deliberation. Problems in philosophy of science and technology.

Course: ETHICAL THEORIES, Course PST 3105 (Georgia Institute of Technology, Atlanta, USA)

2000 (Spring Semester) Philosophy and ethics. Ethics and information science. Cognitive models of ethical decision. Science, technology, and human values.

Course: PHILOSOPHY OF SCIENCE, Course PST 3115 (Georgia Institute of Technology, Atlanta, USA)

1999 (Fall Semester) Introduction to philosophy of science. Problems in natural philosophy. Problems in philosophy of science: abduction, epistemological problems of human and social sciences, epistemology and cognitive science.

In Italy:

Course: PHILOSOPHY OF SCIENCE (University of Pavia, Italy, Undergraduate Students, Philosophy)

2008/09 - current: Epistemology and philosophical foundations of science. Epistemology, philosophy of technology, and ethical values. The problem of hypothetical reasoning and its eco-cognitive dimensions.

Course: PHILOSOPHY OF SCIENCE CP (University of Pavia, Graduate Students, Philosophy and Mathematics, Italy)

2008/09 -current; Basic issues in philosophy of science and of technology. Scientific reasoning. Cognitive aspects of epistemology. Computational philosophy and hypothetical reasoning. The problem of distributed cognition.

Course: COGNITIVE PHILOSOPHY (University of Pavia, Italy, Undergraduate and Graduate Students, Philosophy and Psychology)

2019/20 (in collaboration with Selene Arfini, Post Doc PRIN/MIUR) Introduction to the relationships between cognitive science and philosophy, the computational theory of the mind, the ontology of cognitive epistemology, the development of theories of embodied and extended cognition, cognitive niches theories and studies on creative reasoning.

Course: NEUROSCIENCE AND HUMANITIES (University of Pavia, Collegio Santa Caterina, Undergraduate Students, Philosophy, Psychology and Neuroscience)

2015/16 -current; one lesson on Neuroscience and epistemology, in collaboration with S. Arfini and T. Bertolotti.

Course: EPISTEMOLOGY AND FOUNDATIONS OF COMPUTATIONAL PHILOSOPHY AND OF PHILOSOPHY OF TECHNOLOGY (University of Pavia, Italy, Graduate Students, Philosophy)

2003/04, 2004/05, 2005/06, 2006/07, 2007/08 Basic issues in philosophy of science and of technology. Scientific reasoning. Cognitive aspects of epistemology. Computational philosophy and creative reasoning in science.

Course: PHILOSOPHY OF FORMAL AND NATURAL SCIENCES (University of Pavia, Italy, Graduate Students, Mathematics)

2003/04, 2004/05, 2005/06, 2006/07, 2007/08 Basic issues in philosophy of formal and natural sciences. Scientific and mathematical reasoning. Cognitive aspects of formal sciences. Computational philosophy and creative reasoning in formal sciences.

Course: LOGIC AND PHILOSOPHY OF SCIENCE (University of Pavia, Italy, for Undergraduate Students, Biotechnology)

2003/04, 2004/05, 2005/06, 2006/07, 2007/08 Logic and intelligent reasoning; epistemology and philosophical foundations of science.

Course: LOGIC (University of Pavia, Italy, Undergraduate and Graduate Students Philosophy, Mathematics, Computer Science)

1998/99 Introduction to mathematical logic. Logic and intelligent reasoning; computational philosophy; epistemology today.

1997/98 Introduction to mathematical logic. Logic and artificial intelligence. Abduction in exact and human sciences.

1996/97 Introduction to mathematical logic. Abduction in human and social sciences.

1995/96 Introduction to mathematical logic. Abduction in human and social sciences.

1994/95 Introduction to mathematical logic. Logic and knowledge representation. Elements of computational philosophy.

1993/94 Introduction to mathematical logic. Logic and informatics. Problems of automation of reasoning.

1992/93 Introduction to mathematical logic. The problem of abduction.

1991/92 Introduction to mathematical logic. Logic and artificial intelligence.

Course: EPISTEMOLOGY (University of Pavia, Italy, Undergraduate and Graduate Students, Philosophy)

2001/02, 2002/03, 2003/04, 2004/05, 2005/06, 2006/07 A. Epistemology and philosophical foundations of science. B. Epistemology, philosophy of technology, and ethical values. The problem of abductive reasoning.

1998/99 Incommensurability and intertheoretic relations. Transcendental philosophy and epistemology. Kant and Poincaré. Science: the human face.

1997/98 Epistemological problems of human and social sciences. Conceptual change in philosophy and science.

1996/97 Scientific discovery and intertheoretic comparison, epistemological problems of human and social sciences.

Course: LOGIC (Collegio Borromeo and Department of Mathematics, Pavia, Italy)

1997/98 Introduction to classical logic and knowledge representation.

Course: PHILOSOPHY - Seminars - (University of Pavia, Italy, Undergraduate and Graduate Students, Philosophy)

1990/91 Introduction to cognitive science from a philosophical point of view.

1989/90 The problem of schematism and the philosophy of geometry.

1987/88 1. The problem of scientific explanation. 2. The epistemological foundations of psychoanalysis.
1988/89 Philosophy of geometry in Kant's *Critique of Pure Reason*.
1986/87 1. The problem of scientific explanation. 2. The epistemological foundations of psychoanalysis.
1985/86 Philosophy of science in Kant's *Critique of Pure Reason*.
1984/85 Epistemological problems of scientific discovery.
1983/84 Science and convention in Poincaré's thought.
1982/83 Introduction to mathematical logic.
1981/82 Recent epistemological models of rationality.
1980/81 Introduction to mathematical logic.
1979/80 1. Introduction to logic 2. Neopositivistic and postpositivistic models of science.
1978/79 Neopositivistic and postpositivistic models of exact and human sciences.
1976/77 The philosophy of arithmetic in G. Frege.