

Marino Gatto

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Marino Gatto, born in 1949, graduated in Electronic Engineering in 1972; he is Professor of Ecology, School of Civil, Environmental and Land Use Engineering, Politecnico di Milano. His cultural background is engineering and mathematical modelling and his research has entirely focussed on ecology and the management of renewable resources since 1974.

The turning point of his career occurred in 1974 when he became a research fellow in the Ecology Group of IIASA (International Institute for Applied Systems Analysis), Laxenburg, Austria. In 1976 he joined the Institute of Animal Resource Ecology, University of British Columbia, Vancouver, Canada, for about one year to specialize in applied ecology.

Professional Appointments

1978: Assistant Professor of System Theory, University of Naples

1978-1982: Assistant Professor of Optimal Control, Politecnico di Milano and University of Pavia

1983-1987: Associate Professor of Applied Ecology, Politecnico di Milano

1987 - present: Professor of Ecology, Politecnico di Milano

1987: visiting Professor, University of Vienna, Austria

1997-2001 and 2006-2007: visiting Professor, Département de biologie , Ecole Normale Supérieure, Paris, France

2011: visiting Professor, Laboratoire de Ecohydrologie, École Polytechnique Fédérale de Lausanne

1991-1999: chair of the Program in Environmental and Land Use Engineering, Politecnico di Milano

1999-2002: vicepresident of the Italian Society of Ecology.

2003-2006: president of the Italian Society of Ecology.

2007-2010: member of the Academic Senate of the Politecnico di Milano

2009-2013: member of the executive board of the Laboratory on Energy and Environment (LEAP-Politecnico di Milano)

2013-present: member of the scientific committee of the Laboratory on Energy and Environment (LEAP-Politecnico di Milano)

2013-present: member of the council of CoNISMa, the interuniversity national consortium for marine sciences

2013-present: vice-dean of the School of Civil, Environmental and Land Use Engineering, Politecnico di Milano.

2017-present: member of the executive board of the Fondazione CMCC (Centro EuroMediterraneo sui Cambiamenti Climatici)

Current teaching

Graduate Courses: *Ecosystems Conservation and management* within the graduate program in Environmental and Land Planning Engineering; *General Ecology module* within the Urban and Landscape Regeneration Studio, graduate program in Sustainable Architecture and Landscape Design.

Professional Affiliations

Società Italiana di Ecologia
Ecological Society of America
American Society of Naturalists

Awards, Honors, National And International Service

1989: NATO Visiting fellow, State University of New York at Stony Brook, Department of Ecology and Evolution
1997: short-term visiting scholar, Department of Ecology and Evolution, Princeton University
1993-2014: associate editor, Theoretical Population Biology
1997-2011: editor, Ecology and Society (formerly Conservation Ecology)
1998-present: editor, Biologia e Conservazione della Fauna
2012: editor, Advances in Water Resources
1997: Anassilaos award for environmental sciences
2002: Focus award for his studies on energy and the environment
2003-present: member of the scientific committee, WWF Italy
2007: elected to the Istituto Lombardo, Accademia di Scienze e Lettere
2008: elected to the Istituto Veneto di Scienze, Lettere ed Arti
2015: winner of the Orange Big Data Challenge in the category Health for modelling schistosomiasis in Senegal
2016: nominated Fellow of the Alta Scuola Politecnica

Current research activity

Gatto's main research activity is in the field of ecological modelling and management of biological resources. In the past 10 years he has focused mainly on the following topics

- Disease and parasite ecology
- Management of marine biological resources
- Alien species dynamics
- Impacts of climate change on biodiversity and ecosystems

Recent research grants

- Leader of research team conducting biodiversity research in the project "Climate Change Assessment in Small Pacific Islands States" funded by the Italian Ministry of Environment
- Leader of research team within the project CoCoNet - Towards COast to COast NETworks of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential, funded by the 7th Framework Programme of the European Commission
- Leader of Work Package 4 "Climate change and atmospheric pollution: pressures and impacts on mountain ecosystems" in the project SHARE-Stelvio funded by the regional government of Lombardy and by Fondazione Lombardia per l'Ambiente
- Leader of Politecnico's research team in the H2020 project "Ecopotential"
- Scientist in charge, International Outgoing Marie Skłodowska-Curie Fellowship, Project RAPIDEVO (Rapid evolutionary responses to climate change in the marble trout)

A good deal of the activity has been conducted in cooperation with other Italian and foreign institutions: University of Parma, Dept. of Environmental Sciences (Italy); École Polytechnique

Fédérale de Lausanne, Laboratoire de écohydrologie, ENAC (Switzerland); Princeton University, Dept. of Ecology and Evolutionary Biology and Dept. of Civil and Environmental Engineering, Princeton (USA); Station Biologique de la Tour du Valat (France); Hebrew University of Jerusalem, Department of Evolution, Systematics and Ecology, Jerusalem (Israel); Stanford University, Hopkins Marine Station, Pacific Grove (USA).

M. Gatto has authored or coauthored more than 200 articles. About 130 have appeared in peer-reviewed journals including Nature, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society, Journal of the Royal Society-Interface, BioScience, The American Naturalist, Ecological Applications, Water Resources Research, Geophysical Research Letters, Canadian Journal of Fisheries and Aquatic Sciences, Environmental Toxicology and Chemistry, Journal of theoretical Biology, Ecohydrology.

A complete publication list is downloadable at
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