Prof. Dr. Guido Incerti, PhD

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CURRENT POSITION

Associate Professor SC 05/C1 Ecology, SSD BIO/07 Ecology, at University of Udine, Department of Agrifood, Environmental and Animal Science, since 29/11/2019.
Coordinator of the Master Degree in Science and Technology for the Environmental Sustainability, University of Udine (administrative seat) and University of Trieste (associated seat), since march 2023
Member and Secretary of the PhD Board, Inter-university PhD Program in Environmental Life Sciences, University Trieste (administrative seat) and University of Udine (associated seat), since January 2017.

PAST POSITIONS

2019-2023 Coordinator of Master Degree in Environmental Analysis and Management, Inter-university Master Program, University of Udine (administrative seat) and University of Trieste (associated seat), since December 2019

2015-2019 Assistant Professor (fixed-term Researcher ex sect. 24, par. 3, letter b, L. 240/2010) SC 05/C1, SSD BIO/07 Ecology, at University of Udine, Department of Agrifood, Environmental and Animal Science, since 29/11/2016.

2015-2016 Post doc in Plant and Soil Ecology, University of Napoli Federico II, Dept. of Agricultural Science

2013-2015 Post doc in Plant and Soil Science, University of Napoli Federico II, Dept. of Agricultural Science

2012-2013 Post doc in Ecological Modelling, University of Napoli Federico II, Dept. of Agricultural Science

2009-2011 Post doc in Functional Ecology, Sapienza University of Rome, Dept. of Environmental Biology

2005-2009 Post doc in Plant Ecology, University of Trieste.

EDUCATION

2002-2005 PhD in Environmental Biological Monitoring, University of Trieste
1994-2000 Master degree in Biology, Magna cum Laude, University of Trieste

RESEARCH TOPICS

Plant-soil functional interactions: litter decomposition, litter phytotoxicity and autotoxicity in natural and agroecosystems; Plant-plant interactions: facilitation, competition, mechanisms and effects at community scale; soil extracellular DNA distribution and fate. Metabolomics and bioinformatics in plants; Urban air pollution monitoring and mitigation by green infrastructures; Lichen ecology and biomonitoring; Statistical and process-based modelling of biological and ecological systems.

RESEARCH PROJECTS AND TECHNICAL COMMITEES

2022-2025 National Biodiversity Fututre Center (NBFC), CUP G23C22001110007, PNRR Mission 4, Component 2, Investiment 1.4, WP 4.2 Adaptation and mitigation of terrestrial ecosystems to climate change including ecological responses and future forecast scenarios, 706 k€

2020-2021 Research Contract funded by KOPPERT BV: Experimental activity on the underlying mechanisms of self-DNA inhibition in plants and applications in weed control. Principal Investigator, 40 k€.

2017-2019 PRID FORexDNA: Extracellular DNA from litter decomposition as driver of forest biodiversity. Principal Investigator. Funded by University of Udine, Department of Agri-food, Environmental and Animal Science. 30 k€

2015-2016 Research contract on “Environmental biomonitoring of air pollution using lichens and mosses” funded by ENEL Engineering and Research, coordinated by M. Tretiach, University of Trieste.

2013-2015 GenoPOM-pro (PON 02_00395_3082360). Coordinated by prof. L. Frusciante, University of Napoli Federico II.

2007-2012 Expert member of the WG31-TC264 “Air Quality” of the European Committee for Standardization (CEN) appointed by the Italian Committee for Standardization (UNI) as delegate of the Department of Life Sciences, University of Trieste, for drafting of the Standards: EN 16413 "Biomonitoring with lichens - Assessing epiphytic lichen diversity"; EN 16414 "Biomonitoring with mosses - Accumulation of atmospheric contaminants in mosses collected in situ".

2008-2011 FP7 Coordination and Support Action ENV.2007.1.2.3.2. HEREPLUS, "HEalth Risk from Environmental Pollution Levels in Urban Systems" Coordinated by Dr. Stephen Trueman, Consorzio Sapienza Innovazione, Rome. Participation within the team of the Partner SAPIENZA, coordinated by prof. F. Manes, Sapienza University of Rome.

2006-2010 FP6 FIRE PARADOX. Integrated Project – Priority thematic area: Mechanisms of desertification and natural disasters, Sub priority 6.3: Global change and ecosystems, Topic: Integrated forest fire management, coordinated by prof. F. Rego, University of

Lisboa. Participation within the team of the Partner UNINA, coordinated by prof. S. Mazzoleni, University of Napoli Federico II.

2005-2009 FISR PNR MESCOSAGR "Sustainable Methods for Organic Carbon Sequestration in Agricultural Soils" coordinated by prof. A. Piccolo, University of Napoli Federico II. Participation within the team coordinated by prof. S. Mazzoleni, University of Napoli Federico II. Responsible for system dynamics modelling implementation, calibration and validation.

2005-2009 FISR PNR MICENA "Integrated Modelling of Natural and Agricultural Ecosystem Dynamics in relation to Climate Change in the Mediterranean Area, coordinated by prof. T. Sediari, University of Perugia. Particpation within the U.O. 7, Dip.Te.Ris. University of Genova, for the activity "Lichens as indicators of desertification in Mediterranean drylands".

2005 PRIN "Effects of plant species diversity on litter production and decomposition in the Mediterranean maquis", coordinated by prof. S. Mazzoleni, University of Napoli Federico II. Participation within the U.O. coordinated by prof. E. Feoli, University of Trieste.

2004 COFIN "An information system for creation of interactive floras at national level", coordinated by prof. P.L. Nimis, University of Trieste. Responsible for database implementation and data analysis.

2003 COFIN "Modelling of C and N fluxes in the Mediterranean maquis: effects of vegetation cover spatial variability" coordinated by prof. S. Mazzoleni, University of Napoli Federico II. Responsible for simulation modelling and data analysis.

2002-2004 CLIMAGRI. Research Project on Climate Change and Agriculture, funded by Italian Ministry of Agriculture and Forestry (MiPAF) D.M. 494 e 504/7303/2000. Coordinated by dott. D. Vento, Central Office of Agricultural Ecology (UCEA). Responsible for design and implementation of drought risk analysis in selected areas of Italy.

TEACHING ACTIVITY

2023-ongoing "Analysis and Modelling of Ecological Systems", 6 CFU (48 h), M.Sc. Degree in Science and Technology for Environmental Sustainability, Department of Agrifood, Environmental and Animal Science, University of Udine.

2023-ongoing "General Ecology", 6 CFU (48 h), B.Sc. Degree in Science for the Environment and Nature, Department of Agrifood, Environmental and Animal Science, University of Udine.

2019-ongoing "Ecology an Sustainability of Food Resources", 6 CFU (48 h), B.Sc. Degree in Food Science and Culture Department of Agrifood, Environmental and Animal Science, University of Udine.

2018-2023 "Ecosystem Analysis and Modelling", 8 CFU (64 h), M.Sc. Degree in Environmental Analysis and Management, Department of Agrifood, Environmental and Animal Science, University of Udine.

2016-2018 "Quantitative Ecology", 6 CFU (60 h), M.Sc. Degree in Environmental Science and Technology, Department of Agrifood, Environmental and Animal Science, University of Udine, course.

2011-2015 "Ecological Census Techniques", 6 CFU (48 h), M.Sc. Degree in Environmental Biology, Department of Life Sciences, University of Trieste.

2009-2010 "Ecosystem modelling", 9 CFU (90 h), M.Sc. Degree in Environmental and Forestry Sciences, Department of Agricultural Sciences, University of Napoli Federico II.

2009 “Quantitative Analysis of Mediterranean Ecosystems” (24 h), Post-graduate Program in Environmental Management, International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), Mediterranean Agronomic Institute of Chania (MAICh), Crete, GR.

2005-2012 “Applied and Environmental Botany”, 3 CFU (24 h), Inter-university B.Sc. Degree in Environment and Workplaces Prevention Techniques, Department of Medical and Surgical Science, University of Trieste, and Department of Experimental and Clinical Medical Science, University of Udine.

2004-2005 “Biomonitoring of air pollution”, 6 CFU (48 h), M.Sc. Degree in Biodiversity and Biomonitoring of Terrestrial Ecosystems, Faculty of Mathematical, Physical and Natural Sciences, University of Trieste.

PUBLICATIONS AND BIBLIOMETRY

(data from SCOPUS, recording date 07/03/2023).
Number of publications (articles 91%, reviews 5%, book chapters 3%, conference papers 1%): 77
Citations: 2332
H-index: 28

Udine, March 7, 2023