

Sandro Strumia was born in Napoli on May, the 31th, 1962.

He graduated with distinction in Natural Science at the University of Naples "Federico II", Italy on 1989.

On 1991 he received the pass-mark in a competitive examination (Curator of Herbaria) at the University of Naples "Federico II"

He obtained the PhD in Geobotany at the University of Pavia on 1996.

From 2000 he applied at the Department of Environmental Sciences (Second University of Naples - SUN), currently Department of Environmental, Biological and Pharmaceutical Sciences and Technologies (DiSTABiF), University of Campania "Luigi Vanvitelli" as Researcher (SSD/BIO-03, Environmental and Applied Botany).

MAIN SCIENTIFIC ACTIVITY

Dr Sandro Strumia focused his research activities on plant ecology mainly applying field job to floristic and vegetation sampling mainly at community and landscape level.

His main research topics are vegetation dynamics triggered by human disturbances in mediterranean habitats, applying different sampling and statistical methods to investigate them.

Sandro Strumia applied vegetation mapping methods to study landscape dynamics using G.I.S. techniques for spatial analysis such as the overlay of thematic maps referred to different years to obtain transitional matrix used as input data into a Markov-chain application for provisional purpose. In this field he also participated to multidisciplinary research using vegetation maps to interpret geomorphological processes. Recently he paid attention on the use of both bibliographic and original floristic data stored in relational geodatabase to produce floristic maps mainly for management of biodiversity in protected area.

Recently he has focused his research on monitoring of both species and habitats; in this context, he contributed to planning and applying sampling design according to the requirements of the existing national and international laws concerning biodiversity conservation and management.

Concerning field activities, he investigated floristic aspects of the Campania district as well as some plant communities using the phytosociological approach. He is interested in statistical analysis both simple (descriptive and inferential statistics) and multivariate collaborating to the data analysis of various environmental data also not strictly concerning plants.

MAIN RESEARCH PROJECTS

- 2020 -... Research project "Monitoring Habitat of Annex I of Habitat Directive (92/43/EEC)" funded by Campania Region. In the project he is the scientific responsible.
- 2019 ->... Research project "Use of innovative management of pasture to ensure both food and ecological quality" (CUP:B18H19005230009) funded by Regione Campania – In the project he is scientific responsible of the research unit of DiSTABiF.
- 2017 □ 2020 Scientific Research Project of National Relevance "Adaptive design and technological innovations for resilient regeneration of climate change urban districts (protocol - 2015MXPTHK_004). In the project he is a participant.
- 2017 Research project "Monitoring plant species and habitats of Campania Region" funded by Regione Campania – In the project he is scientific responsible of the

research unit of DiSTABiF.

- 2016 Research project to assess guidelines for monitoring activities according to the 92/43/EEC Directive within a cooperation between ISPRA and Italian Vegetation Science Society; in the project he collaborate to the assessing of monitoring forms.
- 2013-2015 Research Project " New Red List of Italy" within a cooperation between The Italian Botanical Society and the Environmental Ministry.
- 2010- 2011 European Research Project PROVIDUNE (LIFE07NAT/IT/000519) In the project he is the scientific responsible for geobotanical analysis of dune formations in the Nature 2000 Pineta della Foce del Garigliano (IT8010019).
- 2009 – 2010 Research Project "Updating ecological data concerning the Natura 2000 data Base of Campania Region", funded by Campania Region. In the Project he is scientific responsible for the Habitat of Annex I of the 92/43/EEC Directive.
- 2009 - 2011 Research Project on Prescribed Fire: evaluation of the impact on plant communities.
- 2008 ->2010 ... University Research Project of Significant Scientific and Technological Interest " Effects of hydraulic and pedological properties of soils on landslides mechanics"; In the project he contribute by vegetation mapping of the landslides areas.
- 2007 -> 08 Scientific coordinator for Campania in the National Research Project "First contribution to assessing the Important Plant Areas in Italy" – Research Project between Ministry of Environment and Protection of Land and Sea and the Interuniversity Center "Biodiversity, Phytosociology and Landscape Ecology".
- 2006 -> 07 Scientific coordinator (work package floristic maps production and analysis) in the research project "Individuation and evaluation of conservation status of rare plant species in the Cilento e Vallo di Diano National Park".
- 2003-> 06 Scientific coordinator (workpackage environmental botany, floristic and vegetation mapping, dendroecology, statistical analysis) in the European Project (P.O.R. Campania – 3.16)
- 2003-> 04 Collaboration for structural and floristic samplings in mediterranean macchia in the PRIN project "C and N cycles in mediterranean environment: the role of vegetation cover".
- Scientific coordinator (work package woodland communities quality evaluation" in the research project "Evaluation of Environmental Quality of the Tufino district" – research contract between Department of Environmental Sciences SUN and Tufino municipality.
- 2002 -> 04 Scientific coordination of field samplings and production of vegetation and environmental quality maps in the reserch project "Assesing of impacts on the environment and human population around Atomic Power Plant Garigliano of its dismission activities"; research Contract between Department of Environmental Sciences SUN and SOGIN.
- 2000 -> 03 Scientific coordination (field activities and vegetation maps editing) in the national research project "Nature Map" (research contract between the Environmental Sciences Department of the University of Pavia and the University of Neaples "Federico II").

TEACHING ACTIVITIES

2009 -> ... Geobotany

2009 -> ... Biometry

2008 → 10 Parks and protected areas

2003 → 10 Sampling and analysis of flora and vegetation

2003 → 09 Mediterranean flora and vegetation

2002 → 09 Environmental botany

2000 → 08 Principles of Ecological Systems Analysis

Other teaching activities in other University

2010 - 14 Multivariate analysis of environmental data (Degree in Environmental Science, University of Salerno).

2009 - 10 General and Applied Botany, (Degree in Viticulture and Enology, College of Agriculture, University of Naples "Federico II").

2006 - 09 General and Applied Botany, (Degree in Viticulture and Enology, College of Agriculture, University of Naples "Federico II").

Biostatistics (PhD in Applied Biology, University of Naples "Federico II").

2004 - 05 Statistic methods for environmental data: multivariate statistics (Specialistic course in Territorial analysis of natural and agriculture, College of Agriculture, University of Naples "Federico II").

2002 - 03 Statistic methods for environmental data: multivariate statistics (Specialistic course in Territorial analysis of natural and agriculture, College of Agriculture, University of Naples "Federico II").

2001 - 02 Biometry (Specialistic course in Territorial analysis of natural and agriculture, College of Agriculture, University of Naples "Federico II").

2000 - 01 Vegetation sampling (Specialistic course in Territorial analysis of natural and agriculture, College of Agriculture, University of Naples "Federico II").

2006 -> 2012 Member of Teaching Board in the PhD Course in Applied Biology, University of Naples "Federico II".