

ANGELO PECCI



CONTACTS:

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Angelo Pecci was born in Frascati (Rome) in 1977. He received the Master's degree in Environmental Engineering with *summa cum laude* from Tor Vergata University (Rome) on November 2004 with the dissertation "Frascati D.O.C.(guarantee of origin) wine-producing area zonation" developed in collaboration with the Earth Observation Science, Applications Department of European Space Agency ESA/ESRIN (Frascati, Italy) inside the European project denominated "Bacchus". In 2005 he collaborates with ESA/ESRIN in a European Project denominated "DiVino" on agricultural modelling using Geographical Information Systems (GIS).

He is currently pursuing the Ph.D. degree in Geoinformation at the Tor Vergata University (Rome) with a research activity focused on "Geoinformatics Methodologies for Hotspot Detection and Prioritization: biodiversity monitoring and conservation".

Since 2005 he collaborates (fellowship recipient) with the Environmental Sciences Department of Parma University on national and international projects.

His research activities include Multivariate Statistical Analysis; Spatial Analysis and Modelling using GIS; Critical Areas (HotSpot) Detection; Ranking methods; Change Detection Analysis; Remote Sensing image processing and classification; Territorial planning and Territorial Information Systems (SIT); Demographic analysis.

Particularly he focused on Precision Farming Applications and Territorial Zonation; Vegetation Indices evaluation; Ecological and Environmental Studies (Landscape Ecology analysis; habitat evaluation; Human Pressure impact on landscape; protected areas Conservation Plans; Ecological Network design).

Since 2005 he is involved in Map of Italian Nature Project focused on mapping and habitat evaluation based on ecological parameters using multivariate statistical techniques. He collaborates with National Consortium of Environmental Sciences (CINSA) of Venice (Italy) elaborating Map of Italian Nature of Friuli-Venezia Giulia Region.

Since 2006 he is involved in International Digital Government Working Group coordinated by the Center for Statistical Ecology and Environmental Statistics of Pennsylvania State University (U.S.A.), on problems of Digital Governance and Hotspot Geoinformatics for Monitoring, Etiology, Early Warning, and Management. In this sense he spent research periods abroad in Pennsylvania State University (U.S.A.) and in Watershed Surveillance & Research Institute of Jalgaon (JalaSRI), Maharashtra (India).

He is nominated "Cultore della Materia" (Subject Expert and Teaching Assistant) in "Environmental Information Systems" and in "Multivariate Statistic" by Parma University respectively since 2006 and 2008.

Since 2009 he is Contracted Professor in "GIS applied to Landscape Ecology" inside degree course in "Nature Conservation" of SS. MM. FF. NN. faculty of Parma University.

Since 2009 he is involved in an international project in the area of promoting sustainable agriculture and championing biodiversity financed by Milan City Council on “Defending Biodiversity and promoting Sustainable Agriculture in Jalgaon District (India) integrating new methodologies and advanced technologies: Hotspot Geoinformatics, Remote Sensing (RS), Geographical Information Systems (GIS), Global Positioning Systems (GPS) and smart ground sensors”.

COMPETENCE AND SKILLS

Technical skill

- **GIS softwares:**
ArcView GIS (Geoprocessing, Spatial Analyst, 3D Analyst e Network Analyst);
ArcGIS suite: ArcMap (Spatial Analyst, 3D Analyst, Geostatistical Analyst e Survey Analyst); ArcInfo (Arc, ArcEdit, GRID, ArcPlot);
MapInfo Professional;
GRASS.
- **Image Processing softwares:** Erdas Imagine; ENVI.
- **Statistical Analysis:** SPSS; Splus; NCSS; Statistica; Minitab.
- **Numerical Calculation softwares:** MATLAB

Languages

Italian (mother tongue), English (read, written and spoken: intermediate), Spanish (read, written and spoken: basic)

LIST OF PUBLICATIONS

Loret E., Pesolillo S., Pecci A., 2006 “Analisi e integrazione di dati bioclimatici nel WEBGIS DIVINO”, 10a Conf. ASITA, Bolzano, Italy.

Rossi P., Amadio V., Rossi O., Pecci A., 2006 “The Map of Italian Nature: the detection of the Hotspots of ecological attention”. In: “Digital Governance and Hotspot Geoinformatics for Monitoring, Etiology, Early Warning, and Sustainable Management, a collection of white papers prepared for dgo 2006, The 7th Annual International Conference on Digital Government Research”, Technical Report Number 2006-0520, Technical Report and Reprints Series;

Del Barba O., Pecci A., Rossi O., Rossi P., Zaccarelli N. e Zurlini G., 2007 “Modelli statistici nell’analisi dell’evoluzione dell’NDVI (Normalized Difference Vegetation Index) in Val Pola (Valtellina) prima e dopo la frana del Monte Coppetto (28 luglio 1987)”, Atti del XVI Congresso S.It.E.;

Rossi P., Amadio V., Pecci A., Soliani L., Rossi O., 2007. “Analysis of the possible relationships between some landscape characteristics and the demographic trends in an italian area: the case of Oltrepò Pavese and Ligure-Emiliano Apennine”, Atti del XVI Congresso S.It.E.;

Soliani L., Rossi P., Pecci A., 2007. “Relazioni tra struttura demografica del territorio e politiche di conservazione ambientale”, Atti del XVI Congresso S.It.E.;

Loret E., Fusco L., Pecci A., Pesolillo S., Comandini F., 2007 “Approccio alla zonazione vitivinicola nell’area del Frascati D.O.C. attraverso tecniche di Remote Sensing e GIS”, Quarte Giornate di Studio su Metodi Numerici, Statistici e Informatici nella Difesa delle Colture Agrarie e delle Foreste. Ricerca e Applicazioni, Università della Tuscia, Viterbo, Italy.

- Rossi P., Amadio V., Pecci A., Soliani L., Rossi O., 2007. "Coupling the indicators of ecological value and of ecological sensitivity with some indicators of demographic pressure in the individuation of new areas to be protect: the case of Oltrepò Pavese and Ligure-Emiliano Apennine area (Italy)", *Landscape and Urban Planning*, 85 (2008) 12–26.
- Pecci A., Rossi P., Rossi O., Archina M., 2007 "Progettazione di una Rete Ecologica con caratteristiche ottimali mediante l'utilizzo di Metodi Statistici Multivariati, Sistemi Informativi Geografici (GIS) e Conservation Planning softwares: il caso della Val Baganza (Parma)", *Atti del Parma GIS Day sul tema "GIS: Sviluppo, ricerca e gestione del territorio"*, *in press*.
- Pecci A., Rossi P., Rossi O., 2008 "Metodologie quantitative per la progettazione e gestione di reti ecologiche". *Atti della Giornata di Studio Sistemi informativi - Analisi e gestione del territorio, Parma (Italy)*, *in press*.
- Nasi F., Pecci A., Rossi P., Rossi O., 2008 "Analisi della associazione tra fattori di minaccia e livello di rischio d'estinzione di Vertebrati italiani mediante modelli statistici log-lineari". *Atti del XVIII Congresso della S.It.E.*, *in press*.
- Pecci A., Rossi P., Rossi O., 2008 "Progettazione di una Rete Ecologica con caratteristiche ecologiche ottimali utilizzando metodologie per l'individuazione di punti critici nella conservazione e gestione: il caso della Val Baganza (Pr)". *Atti del XVIII Congresso della S.It.E.*, *in press*.
- Rossi O., Nasi F., Pecci A., Rossi P., 2009. "Metodi Statistici Multivariati per l'analisi di dati ecologici ed ambientali". *Uni.Nova Ed. Parma*, *in press*.
- Pecci A., P. Rossi & O. Rossi. 2009. Planning and Analysing an Ecological Network with some optimal characteristics: the case of Baganza Valley (Parma). *Journal of Applied Ecology*. *Submitted*.