

RESEARCHER

Curriculum vitae Curriculum vitae

1. Dados pessoais 1. Personal data

Nome completo
Full name
Pedro Jorge Gonçalves Vaz

Pais de nacionalidade
Nationality
PORTUGAL

Morada institucional
Institutional address

Tapada da Ajuda - Instituto Superior de Agronomia - Centro de Ecologia Aplicada Prof. Baeta Neves
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Contactos
Contact data

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2. Formação académica 2. Academic degrees

Ano Year	Grau académico Academic degree	Instituição Institution
2004	Masters (scholar part)	Faculty of Sciences and Technology (New University of Lisbon)
2002	5 year degree ("licenciatura")	Faculty of Sciences (University of Lisbon)

3. Actividades anteriores e situação actual em termos científicos e/ou profissionais 3. Previous and current scientific and/or professional activities

Período Period	Cargo ou categoria Position or category	Instituição Institution
from 1996 to 1998	Biologist Trainee	Southwest Alentejano and Costa Vicentina Natural Park

from 1999 to 2000	Team Leader; Projects Planning Team Member	Consortium of Companies COBA, EMDEME F2 and TERRACARTA
from 2000 to 2001	Coordination of Work Teams (Technical and Administrative)	Consortium of Companies COBA & OMEGA
during 2001	Technical-assistant in statistics; Interviewer	Portuguese National Institute of Statistics
from 2002 to 2003	Technical Trainee	Portuguese Institute for Nature Conservation
from 2003 to 2004	GIS Technician, responsible for the Institute's GIS in Environmental Impact Assessment	Portuguese Institute for Nature Conservation
from February 2005 to 2006	Professional GIS Instructor	NovaGeo Company - Geographic Information Systems
from october 2005 to october 2006	Research Fellow	Center for Applied Ecology Prof. Baeta Neves – School of Agronomy
from October 2006 to January 2009	Research assistant	Center for Applied Ecology Prof. Baeta Neves – School of Agronomy
from August 2006 to present	GIS Consultant in several studies in environmental/territory planning descriptors	SRIX company – Innovation & Environment
January 2009 to present	PhD Student Thesis title: Long-term effects of Portuguese forest fires on morphology and aquatic habitat structure of lotic ecosystems Scholarship grant: Portuguese Foundation for Science and Technology	Centre for Applied Ecology - School of Agronomy / Institute of Mediterranean Agricultural Sciences - Evora University

4. Área de actividade científica

4. Area of scientific activity

Ecology of Mediterranean lotic ecosystems, Forest fires ecology, Freshwater resources, landscape dynamics, Geographic Information Systems and Remote Sensing, Environmental Sciences and Ecology, Biodiversity and Conservation, Land Use Management and Environmental Planning

5. Domínio de especialização

5. Domain of specialization

Domínio de especialização

Domain of specializations

Freshwater resources, Fire Ecology in forest areas, Statistical treatment of geo-spatial data, Land Use Management and Environmental Planning, environmental impact assessment,

Geographic Information Systems and Remote Sensing (especially products ArcView GIS 3.x and ArcGIS 9.x and 8.1-3, Idrisi, Erdas, Envi, among others), Databases Management Systems MS Access, Biodiversity and Conservation, landscape ecology, Animal Ecology

Actuais interesses de investigação

Present research interests

Fire effects in lotic ecosystems, Recovery of forest burnt areas, Freshwater ecology, Resilience of Mediterranean landscape to Fire

Outras competências/actividades

Other skills/activities

Professional Instructor with Pedagogic Certification.

Informatics:

-Installation of small local networks TCP/IP

-Professional experience in programming with Visual Basic. Inclusion of several components such as ActiveX Data Objects and ESRI Mapobjects. Basic knowledge of Visual Basic .NET DBMS, Microsoft Access (advanced use) and SQL Server. Knowledge of SQL and programming in VBA for MS Access;

-tools for working with GIS and RS: ArcView GIS and latest versions of ArcGIS Arcinfo (Professional Instructor and professional experience, several extensions), Idrisi (work experience), ENVI, Erdas (basic user), MGE, MicroStation and MicroStation Geographics GeoOutlook (professional experience) and Geomedia (basic user). Practical academic user of these tools: land use planning and management; statistical treatment of spatial data;

-data processing software: SPSS, STATISTICA and Mathcad;

-advanced user of all Internet services. Some experience in Internet sites implementation, with concepts of HTML.

6. Experiência na orientação

6. Supervising experience

- Professional Instructor by Novageo Company - Geographic Information Systems, Ltd. Teaching several short-term courses to the GIS Technicians of the 11 municipalities of the Urban Community "Middle Tagus". Training in the context of work, generally for integration and analysis of information in GIS on the structuring and implementation of a consistent data model, using as the main tool Arcinfo (for ArcGIS 9.0). Among the courses already supplied: municipalities touristic data; License Management, municipalities Roads and Schools data.

7. Participação em projectos

7. Participation in research projects

- Research Assistant on Project "Recovery of burnt areas", with Doctor Francisco Moreira as scientific coordinator
- Research Fellow in the project PHOENIX - Forest Recovery in burned areas POCI/AGR/58896/2004.
- Participation in the Field Campaign Otis tarda Countings, 2005. Portuguese League for the Protection of Nature. April 2005;
- Monitoring of the field sessions: i) 2004: ecological study of ants from the "Natura Site" Monfurado; ii) 2000: ecological study of the bird species Otis tarda in Alentejo;
- Fellow of the project "Evaluation of the impact on territory of Environmental Impact Assessment studies owned by Portuguese Institute for Nature Conservation (ICN), using the geo-referencing of existing processes"
- Collaboration in the 1998 's Campaign for Night Observations of Migrations, Portuguese Center for Studies of Iberian Avifauna(Foia-Serra de Monchique, Southwest Alentejo and Costa Vicentina);
- Collection of biometric data from several mammalian species. Vivarium of Lisbon University. 1995-98;
- Monitoring of some field work, under the Liberne Program. 1997;
- Casual observer and collaborator in the practical work of the study "Impacts of agriculture in the temporary ponds" Southwest Alentejano and Costa Vicentina Natural Park. 1996 - 97;
- Collaborating with multiple studies of the diet of many carnivores. Laboratories of Sciences Faculty of University of Lisbon. 1993 - 97;
- Monitoring of some field work with biologist Francisco Álvares, Wolf Group, integrated in the studies for the conservation of the Iberian Wolf in Portugal. Peneda-Gerês Region, 1996;
- Cooperation with the Wolf Group in the analysis of animal carcasses possibly predated by wolfs, under the allocation of grants to pastors injured. Peneda-Gerês Region, August 1996;
- Collaboration with Wolf Group and the Center for Environmental Biology at the initial stage of the project for the breed recovery of Castro Laboreiro dog. August 1996;
- Voluntary assistant in the study of the use of space and time by Herpestes ichneumon in the Natural Reserve of Paúl Boquilobo, using the techniques of telemetry and trapping. 1995 - 96;
- Laboratory assistant in the biochemical analysis of rodents. Work led by Dr. Margarida Santos-Reis. 1995 - 96;
- Collaboration in some field surveys of biological studies of the species Chamaeleon Chamaeleon. Working with the Herpetology Group of Sciences Faculty of University of Lisbon in the Natural Reserve of Sapal of Castro Marim and Natural Park of Ria Formosa. 1995 - 96;
- Carnivores field surveys in the area of Peneda Gerês based on interviews with local inhabitants. Work for the Center for Environmental Biology, Sciences Faculty of University of Lisbon. 1995;
- Participation in the ethological study of the spatial distribution of Lacerta monticola in the Natural Park of Serra da Estrela, during the years 1994, 95 and 96.

8. Publicações

8. Publications

Teses / Thesis

Vaz, P. 2007. Assessing and Modeling Urban Ecosystems by Integrating Remote Sensing and GIS Technologies. Masters [NOT FINISHED]. Lisbon: Faculty of Sciences and Technologies of New University of Lisbon.

Vaz, P. 2003. Implementation of a GIS in the Institute of Nature Conservation, in Environmental Impact Assessment. 5 year degree ("licenciatura") thesis. Lisbon: Sciences Faculty of University of Lisbon.

Capítulos de livros / Chapters in books

Pinto P., Vaz P.J.G., Robinson C. T. and Morais M. 2009. Wildfire impacts on aquatic ecosystems. In Duarte L. M. G. and Pinto P. (eds.), Sustainable development: energy, environment and natural disasters. Luis de Molina Foundation, Évora.

Artigos em revistas de circulação internacional com arbitragem científica / Papers in international scientific periodicals with referees

Moreira F., Vaz P., Catry F., S. Silva J. 2009. Regional variations in wildfire preference for land cover types in Portugal: implications for landscape management to minimize fire hazard. International Journal of Wildland Fire (in press).

Silva J. S., Moreira F., Vaz P., Catry F. 2009. Assessing the relative fire proneness of different forest types in Portugal. Plant Biosystems (in press)

Godinho-Ferreira P., Azevedo A., Vaz P. and Rego F. 2006. Composition, configuration and vertical structure of Portuguese forests: Implications in wildfire probability. Forest Ecology and Management 234S: S225.

Publicações em actas de encontros científicos / Papers in conference proceedings

Godinho-Ferreira, P., Azevedo A., Vaz P., Rego F. 2006. Composition, configuration and vertical structure of Portuguese forests: implications in wildfire probability. In Viegas, D. X. (Ed.). Proceedings of the V International Conference on Forest Fire Research. 27-30 November 2006. ADAI, Figueira da Foz, Portugal

P. Pinto, P. Vaz 2007. Influence of forest fires in the Ribeira de Monchique. Workshop on "Strategies and responses to minimize the effect of the impact of forest fires on the quantity and quality of water". December 12. National Laboratory of Civil Engineering, Lisbon.

Moreira F., Vaz P.J.G., Catry F.X. and Silva J.S. 2007. Regional variations in wildfire preference for land cover types in Portugal: implications for landscape management to minimize fire hazard (abstract). In 4th International Wildland Fire Conference-Resumenes, p. 165. UNISDR; FAO; EU. CD-ROM., Seville, Spain.

Outras publicações / Other publications

Vaz, P. 1997. Inventory and analysis of the distribution of carnivores the perimeter of the Rega Mira. Report for the Natural Park of Southwest Alentejano and Costa Vicentina.

Vaz, P. 1997. The Fauna (vertebrates) in the map of South west Alentejo and Costa Vicentina - General features of the Natural Park. Department of Environmental Education, Natural Park of Southwest Alentejano and Costa Vicentina.

9. Comunicações

9. Communications

Outras comunicações orais / Other oral communications

Godinho-Ferreira, P., Azevedo A., Vaz P., Rego F. 2006. Composition, configuration and vertical structure of Portuguese forests: implications in wildfire probability. In Viegas, D. X. (Ed.). Proceedings of the V International Conference on Forest Fire Research. 27-30 November 2006. ADAI, Figueira da Foz, Portugal

P. Pinto, P. Vaz 2007. Influence of forest fires in the Ribeira de Monchique. Workshop on "Strategies and responses to minimize the effect of the impact of forest fires on the quantity and quality of water". December 12. National Laboratory of Civil Engineering, Lisbon.

Comunicações em painel ("poster") / Posters in conferences

Moreira F., Vaz P., Catry F., S. Silva J. 2007. Wildfire preference for land cover types in Portugal: implications for management (Poster). Wildfire 2007, 4ª Conferencia Internacional sobre Incendios Florestales. Sevilla, España, 13-17 Maio

Pires P. and Vaz P.J.G. 1998. Spatial distribution of carnivores in an agrolandscape of coastal Alentejo in relation to landscape structure (poster). 1st National Meeting on landscape Ecology. Atlantic University, Montemor Novo.

10. Línguas

10. Language

Língua Language	Leitura Reading	Escrita Writing	Conversação Conversation
Inglês	Excelente	Excelente	Bom
Francês	Excelente	Bom	Bom
Espanhol (Castelhano)	Excelente	Elementar	Bom
