

Curriculum vitæ

Daniel Filipe Carvalho Miranda Pires

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Identification:

Personal Data:

Name: Daniel Filipe Carvalho Miranda Pires
Date of Birth: 13 June 1977
Nationality: Portuguese
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Avenida General Roçadas, 28 R/C Dtº 1170-162 Lisboa Portugal
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Education

LISBON UNIVERSITY

Ph.D. Student, since January 2006

- Thesis subject: "Fish assemblage structure in Mediterranean streams: a multi-scale approach to the effects of environmental heterogeneity";

PORTO UNIVERSITY, PORTUGAL

Master of Sciences in Applied Ecology with the maximum grade, 2003

- Thesis: "Study of brown trout, *Salmo trutta*, reproduction in a natural environment, with particularly incidence on reproductive behavior"

AVEIRO UNIVERSITY, PORTUGAL

Degree course in Biology with final average of 14/20, 1999;

MONTPELLIER II UNIVERSITY, FRANCE

- Four month internship, under the frame of the Socrates Program, at the Marine and Continental Hydrobiology Laboratory of the University of Montpellier II, France, based on the Ecosystem and Populations Biology with final score of 15/20; 1999
- Report: "Morphometric study of the teleost fish *Pomatoschistus microps* (Kroyer, 1838) populations living in two palavasiennes lagoons";

Complementary Education

AGRONOMIC SUPERIOR INSTITUTE, LISBON TECHNICAL UNIVERSITY, PORTUGAL

Statistical Course: "Analysing Biological and Environmental Data using Univariate Methods", Highland Statistics Ltd., April 2006, Lisbon, Portugal

COIMBRA UNIVERSITY, PORTUGAL

Post-Graduation Course "Univariate and Multivariate Data Analysis in Ecology and Ecotoxicology", March 2005, Coimbra, Portugal

Experience

RESEARCH PROJECT “THE ROLE OF DRY-SEASON REFUGIA IN STRUCTURING MEDITERRANEAN STREAM FISH ASSEMBLAGES” (POCI/BIA-BDE/56272/2004)

Post-Graduated Researcher assigning the following task:

- Inventorying and Sampling of dry-season refugia Fish Assemblage;

“FISH COMMUNITIES MONITORING AND COMPENSATION MEASURES OF ODELOUCA IMPOUNDMENT SCHEME AND DEVELOPMENT OF A SPECIFIC ENVIRONMENTAL ASSESSMENT SYSTEM” PROTOCOL BETWEEN THE SCIENCES FACULTY OF THE LISBON UNIVERSITY AND THE PORTUGUESE NATIONAL INSTITUTE OF WATER - FROM 06/ 2004 – 12/2005;

Post-Graduated Researcher assigning different tasks:

- Preparation of field trips;
- Establishing Habitat Characterization Methodologies;
- Monitoring of Fish Communities of Arade River Basin;
- Inventorying and Sampling of Dry season Refugia;
- Measuring fish biometric parameters;
- Collecting Scales For Age estimation;
- Analysis and statistical handling of data;

INTRODUCTORY COURSE TO THE USE OF THE OBSERVER VIDEO PRO SOFTWARE PACKAGE – Faculty of Sciences of the university of Porto, Porto, 12,19,20 and 21 of January 2004

Course instructor;

RESEARCH PROJECT PRAXIS XXI: “Phylogenetic and ecological approach for the establishment of primary areas for the management and conservation of brown trout, *Salmo trutta*, populations”, 10-2001/06-2002;

Collaborator assigning different tasks:

- Fish community estimation of River’s Estorãos e Vade, Portugal, by Electrofishing technique
- Measuring biometric parameters;
- Applying mark-recapture techniques via Soft Visible Implant Alphanumeric and Visible Implant Fluorescent Elastomer Tags;
- Following brown trout individuals by telemetry;
- Control of fishing passages;

CONTRACT PROJECT “Stock control of the fish community of the Protected Area of Bertandos and S. Pedro d’Arcos Lagoons”, 10-2001/06-2002, ADFCUP/PPLBSPA;

Collaborator assigning different tasks:

- Fish community estimation, through electrofishing technique, of Bertandos and São Pedro de Arcos Lagoons;
- Measuring biometric parameters;

FRENCH NATIONAL INSTITUTE OF AGRONOMIC RESEARCH (INRA), 2000, FRANCE

- Six month internship, between March 15 and September 15, 2000, at the Hydrobiology Station of St. Pée sur Nivelles of the National Institute of Agronomic Research (INRA), France, based on population dynamic of trout (*Salmo trutta*) and salmon (*Salmo salar*) populations of river's Nive and Nivelles, respectively:
 - Analysis and statistical handling of demographic data;
 - Spatial recovery and planning of macro-habitat characterization of the fishing stations of the French Fishing Superior Council database;

Voluntary work experience

ONDA VERDE NON GOVERNMENTAL ORGANIZATION FOR THE ENVIRONMENT, 2000-2003,

- Delegate of the Non Governmental Organizations for the Environment in the Mix Coordination Commission of the Forest Management Regional Plan of Metropolitan Area of Porto and between Douro and Vouga river's, 2001-2003;
- Coordinator of the Environmental Education project "The Amphibians of The Fonte Formosa Farm", promoted by Onda Verde – Environmental Non Governmental Organization and co-financed by the Portuguese Institute of Environmental Promotion (IPAMB), 2001;
- Collaboration in the several activities of the organization such as, logistical aid in the organization of international interchange programs, environmental education actions, elaboration of information booklets, participation in conferences;

Skills:

- Good knowledge, written and spoken, of English and French, basic knowledge of Spanish;
- Regular use of Microsoft Windows, Word, Excel, Access & Power Point;
- Very Good knowledge of the behavior analysis software "The Observer Video – Pro";
- Good knowledge of the statistical software's Minitab, SPSS and Statistica;
- Good knowledge of geographic information systems software applications Arcview and Geomedia;
- Course on Diagnostics of Agrarian Systems (175 hours) promote by Profirforma – Professional Formation, based on the methodology developed by Mazoyer (National Institute of Agronomy -Paris-Grignon, France) and applied by FAO in several countries, Sabugueiro, Portugal 2003;
- Environmental Educator Course (40 hours), given By Onda Verde – Environmental Non Governmental Organization, Avintes, Portugal, 1999;
- Introductory course to bird watching, given by Quercus — Environmental Non Governmental Organization, Aveiro, Portugal, 1997;

Oral Communications

- Pires, D.F., Magalhães, M.F., Capela, J, Pires, A. M. & Collares-Pereira, M. J. "Fish assemblage structure across a Mediterranean stream: effects of pool size, environmental attributes and spatial context". Ecology of Stream Fish: State of the Art and Future Prospects II, Leon (Spain), June 2006
- Filipe. A.F., Magalhães, M.F., Ribeiro, F., Pires, D.F. & Collares-Pereira, M. J. "Regional influences on local richness of fish assemblages at the Western Iberian drainages: is there room for more species?". Ecology of Stream Fish: State of the Art and Future Prospects II, Leon (Spain), June 2006

- Sousa, G., Magalhães, M.F., Pires, D.F., Pires, A.M. & Collares-Pereira, M. J. “Flow regime influence on life history variation in the highly endangered chub *Squalius aradensis*”. Ecology of Stream Fish: State of the Art and Future Prospects II, Leon (Spain), June 2006
- Filipe, A.F, Magalhães, M.F., Pires, A.M., Pires, D., Rodrigues, P., Sousa, G., Ribeiro, F., Moreira da Costa, L., Mesquita, N., Carvalho, C., Monteiro, R., Penha, F., Coelho M.M., & Collares-Pereira, M.J., “Connecting Science to Water Management – policies for riverine fish conservation: present and future challenges”; Seminar “Riverine Territories, Sustainable Water Management”, Tomar Polytechnic Institute, December 2005, Portugal

Posters

- Magalhães M. F., Sousa G., Pires D. F., Pires A. M. & Collares-Pereira M. J. “Life-history variation in the Iberian chub *Squalius aradensis*: the role of habitat and population attributes at multiple scales”. Annual International Symposium – Fish population structure: implications to Conservation, The Fisheries Society of the British Isles, Aberdeen, United Kingdom, 2006;
- Pires A. M., Magalhães M. F., Pires D. F., Sousa G. & Collares-Pereira M. J. “Spatial variation in population dynamics of Mediterranean stream fish: the role of abiotic and biotic ecosystem attributes”. Annual International Symposium – Fish population structure: implications to Conservation, The Fisheries Society of the British Isles, Aberdeen, United Kingdom, 2006;
- Magalhães M. F., Capela J., Pires D. F., Sousa G., Pires A. M. & Collares-Pereira M. J. “Dinâmica de imigração-extinção em comunidades piscícolas de rios mediterrânicos”. 2nd. Ecological Conference, Lisbon, Portugal, 2006;
- Collares-Pereira M.J., Magalhães M.F., Pires A.M., Pires D., Rodrigues P., Penha F., Sousa G., Mesquita N. & Coelho M.M. “An integrated approach to fish assemblage conservation in a mediterranean stream under a damming process: what future for highly endangered species?”. Annual International Symposium – Fish Habitat Ecology and Conservation, The Fisheries Society of the British Isles, Bangor, Reino Unido, 2005;
- Pires, D., Maia, C.F., Maia, H.M., Valente, A., “Reproductive traits of brown trout (*Salmo trutta*) population of the river Estorãos”. XII Spanish and IV Iberian Conference of Limnology, Porto, Portugal, 2004;
- Maia, H.M., Maia,C.F., Pires, D. & Valente, A., “The Iberian Chub (*Squalius carolitertii*) population of the river Estorãos (River Lima Catchement – North Portugal). XII Spanish and IV Iberian Conference of Limnology, Porto, Portugal, 2004;
- Maia, C.F., Pires, D., Maia, H.M. & Valente, A., “The european eel (*Anguilla anguilla*) population of the river Estorãos (River Lima Catchement). XII Spanish and IV Iberian Conference of Limnology, Porto, Portugal, 2004;
- Pires, D., Almada, V. & Valente, A., “Brown trout, *Salmo trutta*, sexual behavior in a natural environment”.V National Conference of Ethology, Portuguese Society of Ethology, Faro, Portugal, 2003;

Publications

- Maia, H.M., Maia,C.F., Pires, D. & Valente, A., “Biology of the Iberian Chub (*Squalius carolitertii*) population in the river Estorãos (River Lima Catchement – North Portugal). *Limnetica*. *In press*.

Reports

- Collares-Pereira M.J., Magalhães M.F., Pires A.M., Pires D., Rodrigues P., Sousa G., Penha F., Mesquita N. & Coelho M.M. 2006 “FISH COMMUNITIES MONITORING AND COMPENSATION MEASURES OF ODELOUCA IMPOUNDMENT SCHEME AND DEVELOPMENT OF A SPECIFIC ENVIRONMENTAL ASSESSMENT SYSTEM” 2nd. Progress Report FCUL/INAG, Lisbon, 111 pp.
- Collares-Pereira M.J., Magalhães M.F., Pires A.M., Pires D., Rodrigues P., Sousa G., Penha F., Mesquita N. & Coelho M.M. 2005. “FISH COMMUNITIES MONITORING AND COMPENSATION MEASURES OF ODELOUCA IMPOUNDMENT SCHEME AND DEVELOPMENT OF A SPECIFIC ENVIRONMENTAL ASSESSMENT SYSTEM”. 1st. Progress Report FCUL/INAG, Lisbon, 41 pp.