

PERSONAL INFORMATION

Felipe Morcillo Alonso

✉ fmorcalo@yahoo.es

🌐 www.felipemorcillo.com

💬 [Skype fmorcalo](#)

Sex Male | Date of birth 13/01/1970 | Nationality Spanish

PERSONAL STATEMENT

PhD in Biology with technical and scientific skills. Seeking to participate in projects related to freshwater fish (biology and ecology, fish migration), limnology, environmental impact and/or toxicology.

WORK EXPERIENCE

18/07/2015–Present

Higher technician

National Center for Environmental Health. National Institute Carlos III, Majadahonda (Spain)

Toxicological risk assessment of Plant Protection Products

Proposal of risk mitigation measures. Proposal of measures in intoxication. Proposal of reference doses.

Application of chemical and Plan Protection Products legislation.

Business or sector Public administration

13/02/2013–Present

Lecturer

Department of Ecology. Complutense University of Madrid, Madrid (Spain)

Teaching the following subjects: "Projects and Studies in Biology" and "Ecology".

Business or sector Public University

01/03/2007–10/02/2015

Researcher

Hydraulic Laboratory. Center for Hydrographic Studies (CEDEX), Madrid (Spain)

Participation in the projects: "Vertical slot fishway efficiency evaluation by means of artificial intelligence to improve computer vision techniques" (2013-2015); "Analysis of the behaviour in fishways of different Spanish fish species from Spanish rivers" (2011-2014); "Evaluation of swimming capacity of Iberian freshwater fish" (2011-2013); "Vertical slot fishway efficiency evaluation by means of computer vision techniques" (2011-2013); "Analysis of fish behaviour in fishways in order to ameliorate the river connectivity" (2009); "Research about the hydraulic design of fishways in regulated Spanish rivers (2007-2010).

Business or sector Public Administration

12/09/2004–31/07/2014

Lecturer and Coordinator

Alfonso X El Sabio University, Villanueva de la Cañada (Spain)

Teaching the following subjects: "Environmental Toxicology and Public Health"; "Toxicology and Nutrition"; "Toxicology for pharmacologists and veterinarians". Coordinator since 2009.

Business or sector Private University

01/09/2012–07/09/2012

Expert in Ichthyology

International and Ibero American Foundation for Administration and Public Policies

Participation in the Twinning Project (second phase) "Capacity building on water quality monitoring" as main objectives to train to civil servant of the Turkish Government fish sampling methods in lakes and to train on analysis and determination of fish species. Finally, a fish index according to the Water Framework Directive was developed. The training took place in Poyrazlar lake (Adapazari Turkey).

30/04/2012–06/05/2012 **Expert in Ichthyology**

International and Ibero American Foundation for Administration and Public Policies

Participation in the Twinning Project "Capacity building on water quality monitoring" as main objectives to train to civil servant of the Turkish Government fish sampling methods in lakes and to train on analysis and determination of fish species. The training took place in Poyrazlar lake (Adapazari, Turkey)

11/02/2008–22/03/2008 **Lecturer**

Department of Ecology. Autonomous University of Madrid, Madrid (Spain)

Teaching the subject: "Advanced Methods and Techniques in Biology"

Business or sector Public University

01/06/2000–28/02/2007 **Higher Technician. Research and Laboratory staff**

Geological Survey of Spain (IGME), Madrid (Spain)

Participation in the project: "Collaboration between the General Directorate of Environmental Quality and Evaluation (Ministry of Environment of Spain) and IGME in order to develop technical assistance in environmental quality and evaluation subjects". Environmental Impact Assessment of different works mainly powerlines, electrical substations and pipelines (2004-2007). Interpretation and implementation of the Habitats Directive and the Birds Directive. Participation in the project: "Follow-up and monitoring efficiency of mitigation measures of energy infrastructures projects" (2002-2003). Member of the Working Group "Wastes from the extractive industry" European Committee for Standardization (CEN/TC 292: characterization of waste) 2006-2007. Participation in the XX1st meeting of the European Committee for Standardization (CEN/TC 292: characterization of waste) June the 13th and 14th 2006, Hedemora, Sweden.

Business or sector Public Administration

03/07/2000–21/12/2001 **Expert in Ichthyology and International Cooperation**

Araucaria Program Amazonas-Nauta, Spanish Agency for International Cooperation (AECI), (Peru)

In the following periods: July 2000-December 2000; November 2001-December 2001. Consultance assignment for the design and drawing up of a plan to manage silver arowana (*Osteoglossum bicirrhosum*) and assessment of other ornamental fish species in the water bodies in the Pacaya Samiria National Park, Department of Loreto, Peru.

Business or sector Public Administration

01/05/1998–31/05/2000 **Collaborator. Technician and researcher**

Department of Biodiversity and Evolutionary Ecology. National Museum of Natural Sciences (CSIC), Madrid (Spain)

In the following periods: May 1997-August 1997 ; June 1998-June 1999 ; November 1999-May 2000. Participation in different projects related with freshwater fishes in Spain: "Genetic characterization of fish species of the Tago Basin"; "Phylogenetic relationships and biodiversity of the Spanish fish fauna"; "Atlas of the freshwater fish of Spain". Sampling fish in inland waters of Guatemala.

Business or sector Public Administration

01/06/1999–31/10/1999 **Higher Technician**

Ichthyology Collection. National Museum of Natural Sciences (CSIC), Madrid (Spain)

Inventory, determination and cataloguing fish specimens. Database collection handling.

Business or sector Public Administration

01/06/1998–31/05/2000

Independent worker for different private companies

Iberinco, Grupo Interlab and Estudios Biológicos SL, (Spain)

In a period of six months

Iberinco. Fish inventories and hydrodynamic studies: taking water samples to obtain physicochemical parameters of inland water bodies, sampling and determining benthic macroinvertebrates of Rudron and Nela (Ebro basin) Rivers in Burgos and Duraton River (Duero basin) in Segovia. Development of biological water quality indexes.

Grupo Interlab. Participation in fish sampling campaign for the Technical Assistance Project of ichthyofauna monitoring and control in the Tagus River. Dead fishes collections downstream of the El Pardo Dam (Manzanares River). Fish sampling in El Lucio del Cangrejo Grande after the mining waste spill catastrophe in Aznalcollar (Huelva province).

Estudios Biológicos Participation in the projects "Hydrobiological study in the headwaters of the Tera River- Zamora province", "Inventory of fish reserves in Guadalajara province" and "Fish population study and hydraulic characteristics of the Ebro River between Puentelarra (Alava Province) and Miranda de Ebro (Burgos province)".

Business or sector Environmental enterprises

01/09/1997–31/05/1998

Expert in ichthyology and international cooperation

National Secretary of Science and Technology (Panama) - Spanish Agency for International Cooperation, (Panama)

Participation in the project: "Fish inventory and characterization of inland water bodies. Chiriqui and Bocas del Toro Provinces-Republic of Panama".

Business or sector Public Administration

EDUCATION AND TRAINING

10/1998–05/2004

PhD Science

Universidad Autónoma de Madrid, Madrid (Spain)

Dissertation Title: "Genus *Profundulus* Hubbs, 1924 (Actinopterygii : Profundulidae) : Systematic, phylogeny and biogeography".

09/1994–06/1997

Fellowship Grant

Department of Evolutionary Ecology. National Museum of Natural Sciences, Madrid (Spain)

Participation in the project: Biological and ecological requirements of Samaruc (*Valencia hispanica*) and other freshwater fishes species from Valencia (Spain): Application to the creation of a protected areas network to captivity breeding and restocking programs

07/1993–09/1993

Postgrade

Research Centre for Protected Areas of the Autonomous Community of Madrid "Fernando González Bernáldez", Soto del Real (Spain)

Participation in the project: Ecotones map development for the Manzanares River high basin Regional Park.

09/1988–06/1993

Bachelor Degree

Universidad Autónoma de Madrid, Madrid

Environmental Biology.

PERSONAL SKILLS

Mother tongue(s) Spanish

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	B2	B2	C1	C1	B2
	Official School of Languages of Spain. Intermediate (equivalent to B1 of the Common European Framework of Reference)				
	Test de connaissance du français pour le Québec. Listening Comprehension (equivalent to B1 of the Common European Framework of Reference), Speaking (equivalent to C1 of the Common European Framework of Reference)				
English	B2	B2	B2	B2	B2
	Official School of Languages of Madrid. Intermediate (equivalent to B1 of the Common European Framework of Reference)				
	British Council. Course equivalent to B2 of the Common European Framework of Reference)				
Portuguese	B2	B2	B2	B2	B2
	National University of Distance Education. Course equivalent to B2 of the Common European Framework of Reference				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills Good ability to adapt to multicultural environments, gained through my work experience abroad. I could bring on board my good ability to adapt to global networks gained through my experience in Central and South America and in other countries visited for different reasons. Good ability to negotiate with gained through my experience working as consultant. Good communication skills gained through my experience as teacher and my participation in seminars.

Organisational / managerial skills Sense of organisation
 Good experience in project management.

Digital competence User-level knowledge of computer-based technologies to locate, manipulate, create, store and retrieve information to express ideas and communicate with others: Word processing, graphics, multi-media, Internet, email, spreadsheets and databases.
 User-level knowledge of some GIS and statistical softwares.

Driving licence B

ADDITIONAL INFORMATION

Courses and seminars taught

- Septiembre 2014, September 2012 and September 2010
 Forestry Engineering Department. High Technical School of Agricultural Engineering. University of Valladolid/ITAGRA
- VI, VII and VIII Course Rivers and Riverbanks Restoration: Fish passes: calculation, design and construction (2h)
- May 2012
 Center for Hydrographic Studies, Center for Study and Experimentation of Public Works (CEDEX).
 47 International Course on General and Applied Hydrology. Fish passages in water regulation works. Experimentation in a real size model in the Hydraulic Laboratory (CEDEX) (2h)
- March 2010
 High Technical College of Agricultural Engineering. University of Lleida
 Environmental impact of dams in river connectivity (2 h)

- December 2010
MAFOREM/National Museum of Natural Sciences (CSIC)
Monitoring techniques of freshwater fish. Fish fauna conservation in Autonomous Community of Madrid. Participation and vigilance of rangers, in the course for rangers "Phototraps and Monitoring of trails in natural environment" (5 h)
- January 2009
VIIth International Symposium on Ecohydraulics. Concepción. Chile
Fishways and Physical Modelling (14 hrs)
- December 2003-January 2004
Official College of Biologists (Autonomous Community of Madrid)
Environmental Impact Assessment (6 h)
- January 2001 and January 2002
Industrial Organization Business School
Environment, Ecology and Water Module. Environmental Engineering Master. Water Management, VII and VIII edition (6 h every course)
- October 2001-December 2001
Official Chamber of Commerce and Industry of Madrid-Biodiversidad Foundation
Environmental Impact Assessment (3 courses, 57 h)
- June 2001-November 2001; November 2000
Official Chamber of Commerce and Industry of Madrid
Environmental Sensibilization (60 h)
- July 2000-November 2000
Directorate General of the Economy and Employment (Autonomous Community of Madrid)-European Social Fund
Environmental Education and Sensibilization (15 h)

Participation in national and international events

- June 2014
V Iberian Congress of Ichthyology. Lisbon. Portugal
Oral communication: Study of Iberian nase, *Pseudochondrostoma polylepis* (Steindachner, 1864), movements, behaviour and fatigue in a vertical-slot fishway
Poster: Iberian barbel *Luciobarbus bocagei* (Steindachner, 1864) morphology and successful fishway ascent
- July 2013
VI Seminar about priority areas of the Spanish Technological Network of Hydraulics Laboratories: Madrid. Spain
Oral communication: Considerations about design criteria of vertical slot fishways
- July 2012
IV Iberian Congress of Ichthyology. Girona. Spain
Poster: Morphology implications on fish movements in fishways
- October 2011
I Iberian Congress RestauraRios. Iberian Centre for River Restoration. León. Spain
Oral communication: River continuity restoration for migratory fish fauna. Observed differences in three studied species in a vertical slot fishway model
- October 2011
II Water Engineering Symposium: Numerical models and river dynamic. International Association for Hydro-Environment Engineering and Research-Promotion of Water Engineering Foundation. Barcelona. Spain
Oral communication: Analysis of the behaviour of three fish species in a vertical slot fishway
- April 2010

Fish habitat recovery in High Lozoya Symposium. Tagus Hydrographic Confederation. Madrid. Spain
Oral communication: Impact of civil works which cross rivers in fish fauna
- January 2009

VII International Symposium on Ecohydraulics. Concepción. Chile
Poster: Study of effectiveness of fishways: Fish experiments in a vertical slot model (scale 1:1)
- August 2008

II International Junior Researcher and Engineer Workshop on Hydraulic Structures. Pisa, Italy
Oral communication: Effectiveness of fishways: Fish experiments in a vertical slot model (scale 1:1)
- September 2007

XII European Congress of Ichthyology. Cavtat (Dubrovnik). Croatia
Oral communication: Molecular phylogenetic relationships within the fish family Profundulidae
- June 2007

II International Congress on Energy and Environment Engineering and Management (ICIEEM 2007).
Badajoz. Spain
Poster: Environmental impact study of gas natural pipeline wadeable stream crossings: Cigüela River
and his tributary Valdecigüela example
Poster: Natural habitats of Community interest according to the European Directive 92/42/CEE, on the
conservation of natural habitats and of wild fauna and flora, in the environmental impact assessment
of energy infrastructures
Oral communication: Evolution of acid discharges into La Silva River
- June 2002

XI Conference of the Spanish Limnology Association / IV Iberian Conference of Limnology. Madrid,
Spain
Poster: Evaluation program of effects of natural pipeline wadeable stream crossings and their
mitigation measures. Adjustment methodology in the Valdepineda and Cigüela Rivers, Guadiana
Basin (Horcajada de la Torre, Cuenca province)
- June 2001

International Symposium: Biodiversity in the Development Strategies. International Programs. Ramón
Areces Foundation. Madrid. Spain
Poster: Methodological basis applied to the management of *Osteoglossum bicirrhosum* and other
ornamental fish species in the water bodies in the Pacaya Samiria National Park (Peru)
- November 1998

II International Symposium on Ecology and II Latin American on Mycorrhiza. Institute of Ecology and
Systematic. Havana. Cuba
Poster: Genetic variation, taxonomy and biogeography of the genus *Profundulus*
(Cyprinodontiformes, Profundulidae)
- June 1993

I Conference on Applied Ecology. Research Centre for Protected Areas of Autonomous Community of
Madrid "Fernando González Bernáldez". Soto del Real (Madrid). Spain
Oral communication: Hunting management plan in the municipality of Cobeña hunting reserve

Events organization

May 2014
Word Fish Migration Day
Organizing and development: Madrid Río, Looking for a fishway

July 2010
Center for Study and Experimentation of Public Works (CEDEX)- Presentation of the Hydraulics
Laboratory Network in Spain. Madrid. Spain
Organizer: Neotropical fish migration Symposium

November 2004
VIIth National Congress of the Environment (CONAMA). Summit of Sustainable Development,

Madrid, Spain

Team Work coordinator: Natura 2000 network and compensatory measures

September 1994

VIIIth European Ichthyological Congress. Oviedo. Spain

Steward

Publications

ARTICLES IN SCIENTIFIC JOURNALS

2015 Morcillo, F; Ornelas-García, P; Alcaraz, L; Matamoros, WA and Doadrio, I. Phylogenetic relationships and evolutionary history of the Mesoamerican endemic freshwater fish family Profundulidae (Cyprinodontiformes: Actinopterygii). *Molecular Phylogenetics and Evolution* (<http://ow.ly/SmlcU>)

2015 Bermúdez, M; Rico, A; Rodríguez, A; Pena, L; Rabuñal, JR; Puertas, J; Balairón, L; Lara, A; Aramburu, E; Morcillo, F and Castillo, M. FishPath: computer application for design of vertical slot fishways. *Ingeniería del agua*, 19(3):179-191 (<http://ow.ly/Qfqx6>)

2014 Morcillo, F. and Castillo, M. Laboratory Study the Efficiency for a Native Iberian Fish Species of a Vertical Slot Fishway. *Hydrolink* 2014, 4: 102-103 (<http://ow.ly/INEKc>)

2014 Aramburu, E; Morcillo, F; Castillo, M. and Lara, A. Research on fish behaviour in a fishway in the Hydraulic Laboratory of the Centre for Hydrographyc Studies (CEDEX). Conclusions of the experiment period from 2009 to 2012. *Ingeniería Civil* 173: 33-42.

2011 Lara, A; Aramburu, E; Berges, JA; Morcillo, F. and Castillo, M. Reseach about fish pasages in laboratory: Results 2009-2010. *Ingeniería Civil* 164: 101-113.

2005 Abbad, T; Molina, J.R.; Morcillo, F. and Pastor, P. Compensatory measures of plans and projects in the context of Natura 2000 Network. *Reterna: Revista técnica de medio ambiente* 18 (106): 26-31.

2004 Morcillo, F; Arconada, B; Fernández, Y; Lacal, M; and Vadillo, L. Identification of environmental impacts of natural pipeline stream crossings. *Limnetica* 23 (3-4): 347-360. (<http://ow.ly/INFIq>)

2004 Morcillo F and Molina, J.R. Paticipation of the Official College of Biologists (Autonomous Community of Madrid) in the VIIth National Congress of the Environment (CONAMA): Work Team 6. Natura 2000 Network and compensatory measures. *Biólogos*. 5, 7-8.

2003 Morcillo, F; González, J.A; y Vadillo, L. Importance of the use of integrated indexes for the conservation of the fluvial ecosystem and ichthyofauna in the headwaters of the Cigüela River. *AEMS-Ríos con Vida*. 72, 27-41.

2002 Rincón, P.A; Correas, A.M; Morcillo, F; Risueño, P; and Lobón-Cerviá, J. Interaction between the introduced eastern mosquitofish and two autochthonous Spanish toothcarps. *Journal of Fish Biology*, 6(6), 1560-1585. (<http://ow.ly/INGkp>)

CHAPTER IN BOOKS

2004 Vadillo, L. and Morcillo, F. Diagnostic methodologies of the environmental quality of mining waters. In *Landscape restoration and environmental impact assessment of mining industry handbook*. Mineral Resources and Geoenvironment Department. Madrid. 338-339.

PROCEEDINGS

2015 Bermúdez, M; Rico, A; Rodríguez, A; Pena, L; Rabuñal, JR; Puertas, J; Balairón, L; Lara, A; Aramburu, E; Morcillo, F. and Castillo, M. Aplicación web para la evaluación de diseños de escalas de peces de hendidura vertical. Resúmenes de las IV Jornadas de Ingeniería del agua. Córdoba, Spain

2015 García-Camero, JP. and Morcillo, F. Using an embryo-larval zebrafish model to evaluate developmental neurotoxicity of neonicotinoids pesticides. XXI Congress of the Spanish and V of the Iberoamerican Societies of Toxicology. Leon. Spain.

2014 Morcillo, F; Castillo, M; García de Jalón, D; Torrent, F. y Alonso, C. Study of Iberian nase, *Pseudochondrostoma polylepis* (Steindachner, 1864), movements, behaviour and fatigue in a vertical-slot fishway. V Iberian Congress of Ichthyology. Lisboa, Portugal. (<http://ow.ly/INGSi>)

2014 Morcillo, F; Sánchez-González, JR; Castillo, M. Iberian barbel *Luciobarbus bocagei* (Steindachner, 1864) morphology and successful fishway ascent. V Iberian Congress of Ichthyology. Lisbon, Portugal. (<http://ow.ly/INGSi>)

2012 Sánchez, J; Morcillo, F. and Castillo, M. Morphology implications of fish movements in fishways. IV Iberian Congress of Ichthyology. Girona. Spain. (<http://ow.ly/INHdL>)

2012 Morcillo, F; Ornelas-García, C.P; Alcaraz, L. and I. Doadrio. Phylogenetics Relationships of the family Profundulidae. XIII National Congress of Ichthyology and I Latin American Symposium of

Ichthyology. San Cristóbal de Las Casas, Chiapas, México. (<http://ow.ly/INHvs>)

2012. Bermúdez, M; Rodríguez, A; Cea, L; Morcillo, F; Castillo, M. and Aramburu, E. Implications of Fish Behaviour for Vertical Slot Fishways Design. IX International Symposium on Ecohydraulics, Vienna, Austria

2011 Lara, A; Aramburu, E; Morcillo, F; Castillo, M; García de Jalón, D; García R; Torrent, R. River continuity restoration for migratory fish fauna. Observed differences in three studied species in a vertical slot fishway model. Proceedings of 1st Iberian Congress RestauraRios. Iberian Centre for River Restoration. León. Spain

2011 Bermúdez, M; Puertas, J; Cea, L; Pena, L; Rodríguez, A; Rabuñal, J; Balairón, L; Lara, A; Aramburu, E; Morcillo, F. and Castillo, M. Analysis of the behaviour of three fish species in a vertical slot fishway. II Water Engineering Symposium. barcelona, Spain. (<http://ow.ly/INHXS>)

2009 Balairón, L.J; Lara, A; Aramburu, E; Berges, J.A; García, J.L; Morcillo, F. and Castillo, M. Study of Effectiveness of Fishways: Fish Experiments in a Vertical Slot Model (Scale 1:1). VII International Symposium on Ecohydraulics. Concepción. Chile. p. 173.

2008 Morcillo, F; Castillo, M. and Balairón, L. Effectiveness of fishways: Fish experiments in a vertical slot model (scale 1:1). Hydraulic structures. II International Junior Researcher and Engineer Workshop on Hydraulic Structures. Pisa, Italy. pp: 189-194.

2007 Morcillo, F; Ornelas-García, C.P.; Alcaraz, L. and Doadrio, I. Molecular phylogenetic relationships within the fishfamily Profundulidae. XII European Congress of Ichthyology, Cavtat (Dubrovnik), Croatia. p. 40

2007 Morcillo, F; Arconada, B; Fernández, Y; Lacal, M; Vadillo, L; Rodríguez, V; Hidalgo, N. and Díaz, C.B. Environmental impact study of gas natural pipeline wadeable stream crossings : Cigüela River and his tributary Valdecigüela example. II International Congress on Energy and Environment Engineering and Management (ICIEEM 2007), Badajoz, Spain. p. 135

2007 Aduvire, O; Vadillo, L; Moreno, C; Alberruche and Morcillo, F. Evolution of acid discharges into La Silva stream. II International Congress on Energy and Environment Engineering and Management (ICIEEM 2007), Badajoz, Spain. p. 142.

2007 Morcillo, F; Rodríguez, V. and Hidalgo, N. Natural habitats of Community interest according to the European Directive 92/42/CEE, on the conservation of natural habitats and of wild fauna and flora, in the environmental impact assessment of energy infrastructures. II International Congress on Energy and Environment Engineering and Management (ICIEEM 2007), Badajoz, Spain. p. 150.

2002 Morcillo, F; Arconada, B; Fernández, Y; Lacal, M. and Vadillo, L. Evaluation program of effects of natural pipeline wadeable stream crossings and their mitigation measures. Adjustment methodology in the Valdepineda and Cigüela Rivers, Guadiana Basin (Horcajada de la Torre, Cuenca province). XI Conference of the Spanish Limnology Association / IV Iberian Conference of Limnology, Madrid, Spain

PUBLICATIONS ON THE NET

2008 Morcillo F (coordinator). Natura 2000 Network and Compensatory Measures. Final Document. VIIth National Congress of the Environment (CONAMA) (<http://ow.ly/INldj>)

2008 Dorda, J; Garvía, A. and Morcillo, F. Sustainable ornamental fishery in the Peruvian Amazon (<http://ow.ly/INljS>)

2006 Morcillo, F; Arconada, B; Fernández, Y; Lacal, M. and Vadillo, L. Environmental impact studies of natural gas pipeline wadeable stream crossings: Cigüela River and its tributary Valdepineda River. Technical report. Geological Survey of Spain (<http://ow.ly/JWlvm>)

2002 Morcillo, F. and García, J.E. Methodological basis applied to the management of *Osteoglossum bicirrhosum* and other ornamental fish species in the water bodies in the Pacaya Samiria National Park (Peru) (<http://ow.ly/INlqe>)

Knowledge and formation

RELATED TO COMPUTERS

- July 2005

Department of Forest Engineering. Technical University of Madrid, Spain
Environmental Restoration Technician (using CAD software) (40 h)

- November 2003

Geological and Mining Institute of Spain
Course of initiation to ArcView 8.3 (20 h)

- 1998

CICE S.A, Spain

Programmation BASIC and COBOL (200 h)

RELATED TO STATISTICS

- June 2010

Center for Study and Experimentation of Public Works (CEDEX), Madrid, Spain

R programming, Statistics (20 h)

- June 2009

Center for Study and Experimentation of Public Works (CEDEX), Madrid, Spain

Multivariate analysis statistical techniques (20 h)

- November 1996

Society of Friends of the National Museum of Natural Sciences, Madrid, Spain

Statistics Applied to Zoology and Ecology. Data Exploration and Hypothesis Examination (30 h)

RELATED TO FISH BIOLOGY AND ECOLOGY

- December 2011

Centro de Estudios Biosanitarios, Madrid, Spain

Training course for persons carrying out procedures with laboratory animals (Category C, Directive 86/609/EEC) (80 h)

- September 2010

Forestry Engineering Department. High Technical School of Agricultural Engineering. University of Valladolid/ITAGRA

VI Course Rivers and Riverbanks Restoration: Fish passes: calculation, design and construction (40 h)

- July 2010

Katopodis Ecohydraulics Ltd. 2010 International Congress on the Biology of Fish, Barcelona, Spain

International short course Ecohydraulics for Ecologically Healthy Waterways (8 h)

- July 2010

International Congress on the Biology of Fish, Barcelona, Spain

I International FitFish Workshop on the Swimming Physiology of Fish (20 h)

- April 2008

Zoo Aquarium de Madrid, Spain

Aquarium and tank maintenance and management (14 h)

- November 2008

Canadian Aquaculture Institute

The Experimental Fishes (5 h)

- October 2007

Bioscience Cooperative Research (CIC-Biogune), Derio, Bizkaia, Spain

Training course for persons carrying out procedures with laboratory animals (Category B, Directive 86/609/EEC) (42 h)

RELATED TO ENVIRONMENTAL SCIENCES

- September 2014

Center for Study and Experimentation of Public Works (CEDEX), Madrid, Spain

Introduction to Environmental Risk Assessment (18 h)

- March 2007

Center for Hydrographic Studies, Center for Study and Experimentation of Public Works (CEDEX), Madrid, Spain

XIII Course of Applied Limnology: Dams, lagoons and rivers (40 h)

- May 2005

La Casa Encendida. Acción Social. Savings Bank Caja Madrid
Strategic Environmental Assessment of Policies, Plans and Programs (32 h)
- November 2003

IPADE. La Casa Encendida. Acción Social. Savings Bank Caja Madrid, Spain
Environment and Development Cooperation (20 h)
- October 2003

UNESCO Chair in Technology, Sustainable Development, Imbalances and Global Change.
Polytechnic University of Catalonia
Creation of Models in Ecology and Management of Natural Resources (50h)
- October 2003

La Casa Encendida. Acción Social. Savings Bank Caja Madrid, Spain
Workshop of Energy and Environment (20 h)
- August 2003

Menéndez Pelayo International University, Santander, Spain
Chemistry and Environment (25 h)
- June 2003

Energy, Environmental and Technological Research Centre, Madrid, Spain
Atmospheric Pollution Models (30 h)
- November 2002

Official College of Biologists, Geologists and Technical Forest Engineers (Autonomous Community of Madrid), Spain
Management, Restoration and Conservation of Degraded Areas (20 h)
- April-June 2002

Higher Council of Scientific Research, Madrid, Spain
Atmospheric Pollutants Dispersion Models (120 h)
- November 2000

Tecnib2000, CEDEX, Madrid, Spain
Environmental Impact Assessment (40 h)
- October 1999 – February 2000

CEPADE. Technical University of Madrid, Spain
Environmental and Natural Resources Economy (40 h)
- January 1994-April 1994

Municipal Institute for Enterprise Training and Employment (IMEFE). Madrid City Council
Design of Natural Systems of Purification Technician (300 h)
- February 1994-March 1994

Municipal Institute for Enterprise Training and Employment (IMEFE). Madrid City Council
Underground Waters Pollution (150 h)
- July 1992

European Campus of the Environment (European Union – National Institute for Pedagogical Research and Action – Bourgogne University), France
Saône Valley between Pagny and Seurre. Contradictory vocations and land management
RELATED TO HEALTH SCIENCES
- June 2010

Ibero-American University Foundation
Diet elaboration and diet therapy (150 h)
- September 2009

BIOAnalítica S.L. Madrid, Spain
ELISAs for mycotoxin analysis (4 h)

- Mars 2006

EUROTOX and Bulgarian Toxicological Society

Basic Toxicology Course (40 h)

- May 2004-July 2004

San Pablo-CEU University. Antidrug Agency of Autonomous Community of Madrid

Pharmacology of the Drugs of Abuse (60 h)

OTHER FORMATION

- 2014. Center for Study and Experimentation of Public Works (CEDEX), Madrid, Spain

Computer resources for management of training: Virtual Tutorials (25 h)

- 2014

Ambientum Formación

EU Funding 2014-2020 (65 h)

- 2013

Tea-Cegos Formación

Effectiveness techniques and tools to Project Management (24 h)

- 2008-2009

Social Structure (5 credits) and Anthropology of Sexuality (5 credits), subjects of the Degree Social and Cultural Anthropology (National University of Distance Education, Spain)

Studies and Projects directed

"Inventory and effectiveness assessment of the fishways at Community of Madrid" by Juan Carlos Carbonell. Research initiation. Degree in Biology. University Complutense of Madrid.

"Study of brown trout (*Salmo trutta*), iberian nase (*Pseudochondrostoma polylepis*) and barbel (*Luciobarbus bocagei*) behaviour in a vertical-slot fishway" by Miriam Castillo Blanco. Master Degree in Hydrology and Water Management. Alcala de Henares University-King Juan Carlos University, Madrid, Spain.

"Harmful algal bloom and aquaculture relationship. A review" by Mara Carmen Chiaravalle Colazo. Final Year Project. Degree in Environmental Science. Alfonso X University.

"Cadmium toxicity study in the farming assessment of the Pinedo (Valencia, Spain) sewage station sludge to use in vineyard culture" by Luis Felipe Masiá Sánchez. Project-oriented study. Environmental Toxicology and Public Health. Degree in Environmental Science. Alfonso X University.

"Comparative study on the ozone and nitrogen oxides concentration from the Campus of Santiago University (Pontevedra, Galicia) and Retiro Park (Madrid)" by Adrián González Pereiro. Project-oriented study. Environmental Toxicology and Public Health. Degree in Environmental Science. Alfonso X University.

Certifications

Associate Professor. Quality, Accreditation and Prospective Agency of the Universities of Madrid (ACAP)

Lecturer. Quality, Accreditation and Prospective Agency of the Universities of Madrid (ACAP)

Private University Professor. Quality, Accreditation and Prospective Agency of the Universities of Madrid (ACAP)

Pedagogic Competence Certificate. Complutense University (Madrid)

Category B-persons carrying out animal experiments. Provincial Government of Bizkaia

Category C-persons responsible for directing animal experiments. Community of Madrid

Stays in Research Centers

Work visit to the following centers in order to know the techniques and methodologies and their application to study the fish position along a fishway and their swimming cost. Change of information about the interpretation and application of the data obtained to evaluate and design fishways

June 28th to July 4th 2008. Conte Anadromous Fish Research Laboratory (Leetown Science Center, United States Geological Survey, USA). Contact: Theodore Castro Santos. Researcher

July 6th to July 10th 2008. CRI Manitoba Field Station. Canadian River Institute/University of New Brunswick (Pinawa, Manitoba, Canada). Contact: Stephen J. Peake. Associate Professor University of

New Brunswick