

CURRICULUM VITAE

Personal data:

Name: Martha Fandiño-Lozano
Nationality: Colombian
C.C.: 41779829
Place and date of birth: Bogotá, Colombia, November 3, 1958
Address: Altos de Potosí D9, Vereda Santa Isabel de Potosí, Guasca, Colombia.
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Education:

1977-1981 Los Andes University, Bogotá, Faculty of Biology.
Title: B.Sc in Biology

1983 Los Andes University, Bogotá, Interdisciplinary Center for Regional Studies – CIDER /
Institute for Social Studies – ISS, The Hague
Title: Specialization in Regional Planning
Thesis: Institutional problems in water management in Colombia.

1989 Los Andes University, Bogotá, Interdisciplinary Center for Regional Studies - CIDER
Title: M.Sc in Regional Planning
Thesis: Problems, tendencies and solutions for the forestry sector in Colombia.

1996 University de Amsterdam & International Institute for Aerospace Survey and Earth
Sciences (ITC), The Netherlands
Title: Ph.D in Environmental Sciences
Thesis: A Framework for Ecological Evaluation Oriented at the Establishment and
Management of Protected Areas

Key Qualifications:

- Planning and management of biological conservation
- Formulation, execution, supervision, monitoring and evaluation of environmental policies, programs and projects

Languages:

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Spanish	Excellent	Excellent	Excellent

Employment record:

2005 - Association "Grupo ARCO" (Áreas de Conservación), Bogotá, Colombia.
Position held: Principle scientist
Description of duties: Research and consulting in the field of biological conservation and sustainable development.

2009 Holtz Center, University of Wisconsin, Madison, USA.
Position held: Honorary fellow
Description of duties: Research in the field of sociology of science.

2000 - 2009 Pontificia Universidad Javeriana, Faculty of Science, Biology Department, Bogotá.
Position held: Associate professor
Description of duties: Education and research in the field of systematic conservation planning

2003 New South Wales National Parks Service, Armidale, Australia
Position held: Visiting scientist in the laboratory of Dr. R.L. Pressey

2000 Fondo Nacional de Desarrollo (FONADE), Bogotá.
Position held: Consultant

1999 National Planning Department (DNP), Environmental Policy Unit, Bogotá.
Position held: Consultant

1998 Los Andes University - Faculty of Economy, Bogotá
Position held: Part time professor
Description of duties: Education in the field of ecology in the M.Sc program of Environmental Economics

1994 – 1997 Los Andes University – Interdisciplinary Center for Regional Studies (CIDER), Bogotá.
Position held: Professor – researcher
Description of duties: Education and research in the field of conservation planning in the M.Sc program of Regional Planning

1992 – 1993 International Institute for Aerospace Survey and Earth Sciences (ITC), Enschede, The Netherlands,
Position held: Visiting Scientist

1991 University of Amsterdam, Amsterdam, The Netherlands.
Position held: Visiting Scientist.

1988-1990 National Planning Department (DNP), Bogotá.
Position held: Head of the Division of Natural Resources
Description of duties: Environmental policy design, technical advice to the national council of socio-economic policy (CONPES); negotiation of international and bilateral funds; design and direction of the Colombian Forestry Action Plan (PAFC).

1987 National Planning Department (DNP), Bogotá.
Position held: Specialized professional
Description of duties: Formulation and implementation of policies in environmental issues; budget programming for the environmental institutions.

Projects executed:

Period: 2009
Country/Institution: Colombia, CORTOLIMA
Description: Capacity building in Systematic Conservation Planning and design of a regional system of conservation areas for the department of Tolima

Period: 2009
Country/Institution: Colombia, CORNARE
Description: Capacity building in Systematic Conservation Planning and design of a regional system of conservation areas for the territory of CORNARE

Period: 2008
Country/Institution: Colombia, Government of the Department of Huila
Description: Identification and delineation of the conservation area in the Tatacoa desert

Period: 2008
Country/Institution: Colombia, CAM
Description: Formulation of the Forestry Ordination Plan for the Huila Department

Period: 2007
Country/Institution: Colombia, CORPONARINO
Description: Capacity building in Systematic Conservation Planning and design of a regional system of conservation areas for the department of Nariño

Period: 2007
Country/Institution: Colombia, CAM
Description: Capacity building in Systematic Conservation Planning and design of a regional system of conservation areas for the department of Huila

Period: 2005 (November) – 2006 (May)
Institution: Ministry of Environment – UAESPNN (National Parks)
Description: Definition of the priorities for action in biological conservation in Colombia

Period: 2005 (October - November)
Institution: Netherlands Embassy in Colombia
Description: Evaluation of the possible impact of the forest and water law on the environment and traditional communities

Period: 2001 (December) – 2003 (March)
Institution: Ministry of Environment – UAESPNN (National Parks)
Description: Focalization of Priorities for Conservation in Colombia

Period: 2001 (September) – 2002 (September)
Institution: CRQ (Corporación Regional de Quindío)
Description: Representativeness and vulnerability analysis for the management of the Los Nevados National Park.

Period: 2000 (July - September)
Institution: FONADE
Description: Support to the Direction of the Environmental Policy Unit – DNP in the organization of the workshop "The Forests of Colombia: Towards a Policy and a National Plan for a Harmonized, Integral and Compromising Forest Development.

Period: 2000 (January - July)
Institution: National Planning Department (DNP) – Environmental Policy Unit
Description: Design of a system of categories of conservation areas for Colombia.

Publications

Fandiño-Lozano, M. and W. van Wyngaarden, submitted. FOCALIZE: a reserve selection algorithm based on complementary and supplementary criteria.

Wyngaarden, W. van & M. Fandiño-Lozano, 2008. FOCALIZE-1: User Manual (Version 1-0-6). Grupo ARCO, Bogotá. 58 pp.

Fandiño-Lozano, M., 2008. Revisión de literatura científica en condiciones de exceso de información. *Universitas Scientiarum* 13: 75-83.

Fandiño-Lozano, M. y W. van Wyngaarden, 2006. Algunos Grilletes de la Ciencia de la Conservación. Pp. 33-38 en: C.E. Vasco (Ed.), *Ciencias, racionalidades y medio ambiente*. Editorial Pontificia Universidad Javeriana, Bogotá.

Wyngaarden, W. and M. Fandiño-Lozano, 2005. Mapping the actual and potential ecosystems and chorological types for conservation planning in Colombia. *Diversity and distributions*, 11, 461-473

Fandiño-Lozano, M. y W. van Wyngaarden, 2005. Prioridades de Conservación Biológica para Colombia. Grupo ARCO, Bogotá. 188 pp.

Fandiño-Lozano, M. y W. van Wyngaarden, 2003. *El Rol de la Fauna en la Selección de Áreas de Conservación Biológica*. Pp. 205-209 en: R. Polanco-Ochoa (Ed.), *Manejo de fauna silvestre en amazonía y Latinoamérica*. CITES – Fundación NATURA, Bogotá.

Wyngaarden, W. y M. Fandiño-Lozano, 2002. *Los Nevados: un caso de selección y zonificación de áreas de conservación biológica*. Serie de Investigación 4, IDEADE, Pontificia Universidad Javeriana, Bogotá. 60 pp.

Fandiño-Lozano M., 2001. Evaluación del sistema de categorías de áreas de conservación en Colombia. *Ambiente y Desarrollo* 9, 55-74.

Fandiño-Lozano M., 2001. *Ecological Evaluation for Conservation - A Way of Thought*. Pp. 195-220 in: I.S. Zonneveld and D. van der Zee (Eds.). *Landscape Ecology Applied in Land Evaluation, Development and Conservation*. ITC Publication 81, IALE Publication MM 1, ITC, Enschede.

- Fandiño-Lozano M., 1999.** *Ecological Evaluation for Conservation*. p. 43 in: Abstracts 5th World Congress International Association for Landscape Ecology. Snowmass Village, Colorado, USA. July 1999.
- Fandiño-Lozano M., 1998.** La ética, ciencia natural y formas de interacción social son bases necesarias para una gestión orientada a la conservación del medio ambiente. Periódico *la República*. Separata Ambiental. Marzo 31 de 1998. Santa Fe de Bogotá, Colombia.
- Fandiño-Lozano M., 1996.** *A Framework for Ecological Evaluation Oriented at the Establishment and Management of Protected Areas. A case study of the Santuario de Iguaque, Colombia*. PhD thesis, University of Amsterdam, The Netherlands (195 pp.). Also ITC Publication No. 45, ITC, Enschede, The Netherlands.
- Fandiño-Lozano M., 1996.** *Introducción a la Ecología del Paisaje*. Notas de clase. CIDER, UNIANDES, Santa Fe de Bogotá.
- Fandiño-Lozano M., 1995.** *Evaluación Ecológica y de Tierras para la Conservación y el Desarrollo*. Notas de clase. CIDER, UNIANDES, Santa Fe de Bogotá.
- Fandiño-Lozano M., 1992.** Plan de Acción Forestal para Colombia - En busca del tiempo perdido. *Estrategia Económica y Financiera*. No 166. Junio, 1992. Santa Fe de Bogotá, Colombia.
- Fandiño-Lozano M., 1992.** *Research co-operation in natural resource management between the Netherlands and Colombia*. In: Development Related Research, University of Groningen, The Netherlands.
- Fandiño-Lozano M., 1989.** *Problemas Forestales en Colombia, Soluciones y Tendencias*. Tesis de maestría CIDER, Universidad de Los Andes, Santa Fe de Bogotá.
- Fandiño-Lozano M., 1984.** *Problemas Institucionales en el Manejo del Agua en Colombia*, Universidad de Los Andes, Santa Fe de Bogotá.

Presentations in international congresses (last 10 years)

- Fandiño-Lozano, M. and W. van Wyngaarden, 2008.** Los ecosistemas secos de Colombia en las prioridades de conservación - clasificación ecológica y biogeográfica -. III Congreso Internacional de Ecosistemas Secos. Noviembre 2008, Santa Martha, Colombia.
- Fandiño-Lozano, M. and W. van Wyngaarden, 2005.** Priorities for Conservation in Colombia. XIX Annual Meeting of the Society for Conservation Biology. July 2005, Brasilia, Brasil.
- Fandiño-Lozano, M. and W. van Wyngaarden, 2003.** Minimum targets to select conservation areas: the use of umbrella and pattern-unrelated species. 6th International Association of Landscape Ecology World Congress, Crossing Frontiers. Landscape Ecology Down Under. Julio 2003, Darwin, Australia.
- Wyngaarden, W. van and M. Fandiño-Lozano, 2003.** Selecting priorities for biological conservation in Colombia. 6th International Association of Landscape Ecology World Congress, Crossing Frontiers. Landscape Ecology Down Under. Julio 2003, Darwin, Australia.
- Fandiño-Lozano M. y W. van Wyngaarden, 2001.** El Rol de la Fauna en la Selección de Áreas de Conservación Biológica. Conferencia Magistral V Congreso Internacional en Manejo de Fauna Silvestre en la Amazonía y Latino América. Septiembre 10-14 de 2001, Cartagena, Colombia.

Fandiño-Lozano, M., 1999. Ecological Evaluation for Conservation. 5th World Congress International Association for Landscape Ecology. Snowmass Village, Colorado, USA. July 1999.

Awards

1997. National Award in Ecology "Enrique Pérez Arbeláez".

Professional references

Prof.Dr. R.L. Pressey, Professor, ARC Centre of Excellence for Coral Reef Studies, Townsville, Australia. E-mail: bob.pressey@jcu.edu.au

Prof.Dr.Ir. Klaas Jan Beek, Rector (retired) International Institute for Aerospace Surveys and Earth Sciences (ITC), Enschede, The Netherlands. Email: beek@itc.nl

Dr. Julia Miranda, Director of the National Parks of Colombia (UAESPNN), Bogotá, Colombia. E-mail: jmiranda@parquesnacionales.gov.co

Dr. A. Umaña, Director of Research, Javeriana University, Bogotá, Colombia. E-mail: aumana@javeriana.edu.co

Bogotá, June 2009.