

**PILAR ANDRÉS PASTOR**

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## EDUCATION

### *Academic degrees*

**1980.** *Degree in Biology.* Universidad de Navarra (Pamplona, Spain) with expertise in Zoology.

**1981.** *MSc in Soil Biology.* Universidad de Navarra (Pamplona, Spain) with a dissertation about "Faunistic and Ecological Study of the Oribatid Mites of the Peñas de Echauri Oak Forest (Navarra)". Supervisor: Dr. Lourdes Moraza Zorrilla.

**1990.** *Ph. D in Biology.* Autonomous University of Barcelona (Barcelona, Spain) with a dissertation on "Function of oribatid mites in soil organic matter decomposition in forest ecosystems". My advisor was Dr. Françoise Athias-Binche (CNRS-Paris V, France) and most of my research (1985-1989) was carried out at Laboratoire Arago (Banyuls-sur-mer, France).

### *Complementary studies*

**2013-2014.** *Training in Leadership, Personal Effectiveness and Communication and Conflict Resolution.* Colorado State University, Faculty and Staff Development Department. Seminars on: "Introduction to managing teams", "Managing Personal Stress", "Successful Team Dynamics: How to have better team interactions and improve team decisions", "The positive side of conflict", "Meeting management", "Listening and Constructive feedback" and "Dealing with toxic people" (Dr. R. Sanders and M. Benedetti)

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## PRESENT POSITION

*Senior Researcher* Center for Ecological Research and Forest Applications (CREAF)  
Barcelona, Spain

*Research affiliate* at the Institute for Environmental Sciences and Technology (ICTA) at the Universitat Autònoma de Barcelona. Barcelona, Spain

## OTHER PROFESSIONAL ACTIVITIES

- Since 2021 member of the Editorial Board of the journal "Agriculture" <https://www.mdpi.com/journal/agriculture>
- Vice-chair of the *Sociedad Iberoamericana y del Caribe de Restauración Ecológica* (Ibero-American and Caribbean Society for Ecological Restoration) – SIACRE (since 2017, active) <http://www.siacre.com.co/index.php/es/>
- Member of the EKLIPSE Expert Group (EC) on "What is hampering the effectiveness of existing approaches that aim to restore biodiversity and ecosystem function and services?" (Call for experts No.5/2018 EKLIPSE – June 2018/december 2019)

- Participant at the EC H2020 EKLIPSE Proof of Concept Conference and workshop *Delivering a Knowledge and Learning Mechanism for Biodiversity and Ecosystem Services*. Palace of Academies. Brussels (Belgium), January 23-24, 2019. <http://www.greengrowthknowledge.org/event/eklipse-proof-concept-conference-and-workshop>
- In 2017-2018, member of the Thematic Group on “Sustainable Management of Water and Soil”. European Network for Rural Development ENRD. [https://enrd.ec.europa.eu/contact\\_en](https://enrd.ec.europa.eu/contact_en)
- In 2016-2017. Stakeholder Advisory Board (StAB) support member for the FACCE-JPI Joint Action “Thematic Annual Programming Network on Soil Functionality” (TAP SOIL). <https://www.facejpi.com/>
- Member of the Europe’s ecosystem research network ALTER-Net: A long-Term Biodiversity, Ecosystem and Awareness Research Network (since 2016, active). <http://www.alter-net.info/about-alter-net>
- Scientific Evaluator of Research and Development Projects for the *Autònoma Solidària Foundation*, Universitat Autònoma de Barcelona (Since 2009, active)
- Member of the *Consolidated Research Group on Ecosystem Biodiversity and Evolution* of the Generalitat de Catalunya (Since 2014, active)
- Member of the *Consolidated Research Group on Soil Protection* of the Generalitat de Catalunya (2009-2014)
- Member of the *Global Soil Biodiversity Initiative* (since 2013, active) <http://www.globalsoilbiodiversity.org/>
- Member of the thematic network ECOSOIL (*Soil biodiversity as an essential element in ecosystem functioning and sustainable use of the natural resources*) MICINN. Spanish National Program for the Promotion of Scientific and Technical Research of Excellence Dynamisation actions "Networks of Excellence" (CGL2017-90635-REDT) (2018-2020)
- Member of the Society for Ecological Restoration (SER) (Since 2017, active) <http://www.ser.org>
- Member of the Spanish Society for Terrestrial Ecology (Since 2015, active) <http://www.aeet.org/>
- Scientific Evaluator for the Spanish National Agency of Evaluation and Prospective (ANEP). State Secretariat on Scientific Research, MINECO (Since 2001, active).
- Member of the expert group on soil biodiversity evaluation for the preparation of the report on ‘The state of knowledge on soil biodiversity’. FAO/CBD (2019, active)

## PREVIOUS JOBS

**2012-2015** Affiliated researcher at the Soil Biodiversity and Ecosystem Functioning Lab. Department of Biology. Colorado State University. Fort Collins, Colorado (USA)

**2002-2006** Member of the Board of Directors of the Institute for Environmental Sciences and Technology at the Autonomous University of Barcelona (Barcelona, Spain)

**2000-2002** Member of the Board of Directors of the Center for Environmental Studies (CEA) Autonomous University of Barcelona (Barcelona, Spain)

**1988-1989.** Environmental technician at TECNOAMBIENTE S.A. (Barcelona, Spain)

**1986-1988.** Environmental technician at AMBIO S.A. (Barcelona, Spain)

## STUDY CONTRACTS

**2005-2008.** Ecotoxicological characterization of compost and other cattle manure composting products for application to soil. Contract AGROTECH S.A.-CREAF. Coordinator of the working team.

**2005-2007.** Technical support for sewage sludge use in mine restoration. Collaboration agreement between the Catalonia Water Agency, Waste Management Agency and General Directorate for Environment, CREAM and IQS. Member of the CREAM working team.

**2003.** Strategic study of the Barcelona mountainside of the Collserola Range. Personal contract with the Barcelona Council and the Collserola Park Consortium. Member of the expert team.

**2002.** Expert reports on ecotoxicological assessment of veterinary drugs (Amoxicillin). Personal contract with Laboratorios Serra Pamies S.A. - CREAM. Coordinator of the working team.

**2001.** Expert report on the environmental impact of the Horta Tunnel. Personal contract with ACESA.

**2001.** Environmental diagnose and deployment of the "Espacio Agroforestal de Levante". Contract Sabadell Council - CREAM. Member of the CREAM working team.

**2000.** Quality evaluation of restored opencast carbon mines at the Natural Site of National Interest "Macizo del Pedraforca". Contract with the General Directorate for Natural Heritage and Physical Environment (Generalitat de Catalunya) - CREAM. Member of the CREAM working team

**2000.** Environmental audit of the Baix Maresme. Contract Diputaci3n de Barcelona - CEA (UAB). Member of the CEA working team.

**1999-2001.** Improvement of environmental mine restoration techniques. Contract UNILAND CEMENTERA S.A. - CREAM. Coordinator of the working team.

**1999.** Monitoring flooded crops in the Llobregat River Delta. Contract Diputació de Barcelona - CREAM. Member of the working team.

**1998-1999.** Technical advice and monitoring of sewage sludge use in quarry restoration Contract. Junta de Sanejament (Generalitat de Catalunya) - IQS / CREAM. Member of the working team.

**1998.** Environmental impact study of a nautical services harbor and a fishing quay in Cap de Creus Natural Park (Cala Calders, Alt Empordà Catalonia). Contract Cadaqués Council - Universidad de Barcelona. Responsible for impact on terrestrial ecosystems. **1997.** Preliminary analysis of the environmental impact of the Fenals Oeste-Sta Clotilde yacht marina. Contract Port Alfa, S.L.-Universidad de Barcelona. Responsible for impact on terrestrial ecosystems.

**1995-1996.** Building up of a database of mine restoration quality based on vegetation indicators. Contract Generalitat de Catalunya - CREAM. Coordinator of the working team.

**1994.** Environmental evaluation of potential land use at Can Turull. Contract. Vallès Occidental Regional Council-CREAM. Coordinator of the working team

**1993.** Assessment of potential environmental consequences of the expansion of the Tarragona harbor on Salou. Contract Salou Council - Universidad de Barcelona. Responsible for impacts on terrestrial ecosystems.

**1992.** Environmental Impact Assessment of the Algerri-Balaguer irrigation channel. Contract. Generalitat de Catalunya - CREAM. Coordinator of the working team.

**1992.** Revegetation of the area affected by the expansion of the A-7 motorway. Contract ACESA-CREAM. Coordinator of the working team.

**1991-1995.** Revision of the environmental impact study of the Maresme motorway. Design and execution of the corrective measures for impacts on soil, fauna, vegetation, landscape and noise. Drawing up of the environment surveillance plan. Contract ACESACREAM. Coordinator of the working team.

**1991.** Revision of the Tarragona Urban Development Plan. Contract Tarragona CouncilCREAM. Coordinator of the working team for open areas planning.

**1989-1992.** Monitoring the efficiency of corrective measures applied to the construction of the "Eje de Vallvidrera" motorway. Contract AUCAT-CREAM. Coordinator of the working team.

**1989-1992.** Design and execution of environmental preventive and corrective measures in the construction of the Castelldefels-Sitges motorway. Contract AUCAT-CREAM. Coordinator of the working team.

**1985-1986.** Study of the aboveground and belowground biomass in Mediterranean holm oak forests (La Castanya, Montseny, Barcelona). Contract INEM - Universitat Autònoma de Barcelona. Member of the research team.

## RESEARCH RELATED ACTIVITIES

### *International research stays*

**2016** (May-October). London Natural History Museum / Imperial College London. Research stay about application of DNA sequencing to soil ecology, in collaboration with Dr. Alfried Vogler.

**2013-2015**. Natural Resource Ecology Lab. Research stay under Dr. John Moore as a Marie-Curie IOF fellow.

**1987-1990**. Laboratoire Arago. CNRS. Banyuls-Sur-Mer. France. Pre-doc period under Dr. F. Athias-Binche.

### *Competitive research projects*

**2021-2022**. *Soil Recarbonization in Mediterranean Grasslands*. Fields4Ever (<https://fields4ever.biomemakers.com/>). A sub-project of the EC H2020 project “Smart microbiome-based platform for the early detection of biological threats in agriculture”. Grant No. 947084.

**2019-2022**. *PROMoting the Governance of Regional Ecosystem Services* (PROGRESS). Researcher at the project as a member of the CREAM team. INTERREG Europe project. Principal Investigator: Besnik Mehmeti (National Association of Italian Municipalities Tuscany, Italy Tuscany).

**2018-2022**. *Large-scale demonstrators on nature-based solutions for hydro meteorological risk reduction*. PHUSICOS – ‘According to Nature’. H2020-SC5-2016-2017 call (Greening the Economy). Leader of the CREAM team for the evaluation of effect of the proposed solutions on environmental services provided by soil biodiversity and vegetation at the landscape scale. Principal Investigator, Amy Owen, MGI, Norway.

**2017-2020**. A biodiversity and ECOlogical ASSESSment of soil fauna of Gorongosa National Park, Mozambique (ECOASSESS). Fundação para a Ciência e Tecnologia. PTDC/BIA-CBI/29672/2017. Principal Investigator, P. G. Pereira Martins da Silva (CFE-Coimbra University) & J. P. F. A. de Sousa (DCV- Coimbra University).

**2013-2016**. *Matching soil biodiversity with global biogeochemical cycles*. European Commission. PEOPLE program. Marie Curie International Outgoing Fellowships for Career Development (IOF). Experienced Researchers Modality (FP7-PEOPLE-2012- EC Horizon 2020 Program. IOF, PIOF-GA-2012-326361). Principal Investigators: D. H. Wall (Colorado State University), P. Andrés (CREAF)

**2013-2015**. *Effect of biochar on carbon sequestration and belowground biodiversity in Mediterranean soils*. Ministry of Economy and Competitiveness. AGL2012-40037-C02-01. Principal Investigator: J.M. Alcañiz (CREAF)

**2009-2012**. *Pyrogenic organic matter as a source of stable carbon in soil and its relationship with environmental toxicity*. Ministry of Science and Innovation. AGL200912343. Principal Investigator: P. Andrés (CREAF)

**2009-2010.** *Social Multi-criteria Evaluation for decision-making in the restoration and sustainable management of the agricultural systems of the Miraflores-Moropotente Protected Landscape (Nicaragua)*, Phase III. Catalan Agency for Development Cooperation. U2008O. VCP/1527/200. Principal Investigator: P. Andrés (CREAF/ICTA)

**2008-2011.** *Development of a scientific-technical training program and creation of an experimental research station on Dry Tropics at the Estelí Multidisciplinary Regional Faculty-UNAN/Managua (Nicaragua)*. Spanish Development Cooperation Agency. 2007 Call for Integrated Actions. D/7592/07. Principal Investigator: J.M. Espelta (CREAF)

**2008-2009.** *Social Multi-criteria Evaluation for decision-making in the restoration and sustainable management of the agricultural systems of the Miraflores-Moropotente Protected Landscape (Nicaragua)*, Bridge Project. XXV Call of the Solidarity Fund of the Autonomous University of Barcelona. Principal Investigator: P. Andrés (CREAF/ICTA)

**2007-2009.** *Ecotoxicity, mycotoxins and nonylphenol degradation in sewage sludge and sludge amended soils*. Ministry of Economy and Competitiveness. CTM2006-14163-C0201/TECNO. Principal Investigator: P. Andrés (CREAF)

**2007-2008.** *Social Multi-criteria Evaluation for decision-making in the restoration and sustainable management of the agricultural systems of the Miraflores-Moropotente Protected Landscape (Nicaragua)*, Phase II. Catalan Agency for Development Cooperation. U2006O. PRE/2555/2006. Principal Investigator: P. Andrés (CREAF)

**2006-2007.** *European ring test on the ecotoxicological characterization of waste and waste eluates. "Soil quality- Determination of the effects on pollutants on soil flora-Part 2: Effects of chemicals on the emergence and growth of higher plants. ISO/DIS 11269-2 and Soil quality – Effects of pollutants on earthworms (Eisenia foetida) – Part 1: Determination of acute toxicity using artificial soil substrate. ISO 11268-1*. Federal Environmental Agency (Germany) Dep. III 3. Waste and Waste Water Management. Principal Investigator of the CREAM research team: P. Andrés

**2005-2007.** *OECD Guidelines for the Testing of Chemicals; Proposal for a New Guideline. Collembolan Reproduction Test (Folsomia fimetaria and Folsomia candida)*. National Environmental Research Institute, (Denmark). Principal Investigator of the CREAM research team: P. Andrés

**2005-2007.** *Integrated Action on Mediterranean Soil Ecotoxicology*. CREAM - Instituto do Ambiente e Vida (Universidade de Coimbra, Portugal). Ministry of Education and Science. Principal Investigator: P. Andrés (CREAF)

**2005-2006.** *Social Multi-criteria Evaluation for decision-making in the restoration and sustainable management of the agricultural systems of the Miraflores-Moropotente Protected Landscape (Nicaragua)*, Phase I. Catalan Agency for Development Cooperation. GAP/161/2006. U2004O. Principal Investigator: P. Andrés (CREAF)

**2004-2006.** *Study of the suitability of thermally dried sewage sludge to restore degraded quarrying areas.* Ministry of the Environment. Coordinated projects 150/2004/3, 4.3236/2005/2-B and 226/2006/1-4.3. Principal Investigator: M. Bonmatí (ESAB)

**2004-2006.** *Complementary Action Network for Environmental Risk Evaluation and Prevention in Central America.* Ministry of Education and Science. CGL2004-21115-E. Principal Investigator: P. Andrés (CREAF)

**2003-2006.** *CENTRALRISK Network for Environmental Risk Evaluation and Prevention in Central America.* European Commission ALFA Program. AML / B7-311 / 97 / 0666 / II-0334-FA. Principal Investigator: P. Andrés (CREAF)

**2002-2005.** *Evaluation of the ecotoxicological risk of sewage sludge and pig slurry.* Ministry of Science and Technology – FEDER. AGL2002-0329. Principal Investigator: J.M. Alcañiz (CREAF)

**2000-2001.** *Retrospective environmental evaluation of restorative actions in opencast mines in Catalonia: soil biological activity.* Ministry of Education and Culture. CICyTFEDER. 2FD97-1644-C03-03. Principal Investigator: J.M. Alcañiz (CREAF)

**1999-2002.** *Use of sewage sludge and derived products (composted and thermally dried sludge) in degraded land restoration.* CIRIT-MMAGC. Principal Investigator: L. Comellas (IQS)

**1995-1997.** *Effect of high doses of sewage sludge on degraded quarry soil restoration.* CICYT. AMB95-0728. Principal Investigator: J.M. Alcañiz (CREAF)

#### *Supervision of postgraduate research projects*

**2019** *Biological indicators of soil quality in Mediterranean vineyards under intensive and organic management.* MSc Thesis. University of Barcelona. Student: Alex Silva Sánchez.

**2018** in progress. *Climate change mitigation potential of Mediterranean soils: carbon sequestration by biological processes and implications for land management.* PhD Thesis. ICTA, Autonomous University of Barcelona. Student: Stephen Mackenzie Bell

**2011.** *Restauración ecológica de bosques altoandinos sometidos a presión antrópica: de lo teórico a lo posible (Ecological restoration of Andean forests under human pressure: from principle to practice).* PhD Thesis. Autonomous University of Barcelona. Student: José Ignacio Barrera Cataño.

**2009.** *Monitorización de la productividad de pastos a partir de imágenes de satélite para la gestión a escala de paisaje en el Paisaje Terrestre Protegido de Mirafior – Moropotente, Nicaragua (Monitoring pasture productivity with satellite imagery for land management in the Terrestrial Protected Landscape Mirafior-Moropotente, Nicaragua)* MSc Thesis. Autonomous University of Barcelona. Student: Virginia García Millán.

**2007.** *Evaluación de la ecotoxicidad de diferentes residuos aplicados al suelo como abonos orgánicos. Nuevas propuestas metodológicas (Ecotoxicological evaluation of*



*several wastes when applied to soil as organic fertilizer. New methodological proposals*). PhD Thesis. Autonomous University of Barcelona. Student: Xavier Domene.

**2005.** *Los Medios de Comunicación Social y Gestión de Riesgo en El Salvador: una aproximación al caso de la parcelación “El Ángel” (Social Media and Risk Management in El Salvador: the case of “El Ángel” allotment)* MSc Thesis. Autonomous University of Barcelona / University of Girona. Student: Luis Balmore Amaya.

**2005.** *Evaluación de los recursos medicinales en el Área Protegida de Mirafior, Estelí, Nicaragua (Evaluation of medicinal resources in the Mirafior Protected Landscape, Estelí, Nicaragua)*. MSc Thesis. National Autonomous University of Nicaragua (CURN Estelí) / Autonomous University of Barcelona. Student: Julio Cesar Gómez.

**2005.** *Evaluación de las herramientas de gestión en Áreas Protegidas de Nicaragua: los casos de Mirafior y Tisey-La Estanzuela, Estelí (Evaluation of Nicaraguan management tools: the case of Mirafior and Tisey-La Estanzuela, Estelí)*. MSc. National Autonomous University of Nicaragua (CURN Estelí) / Autonomous University of Barcelona. Student: Delia Moreno.

**2005.** *Evaluación de la utilidad del bioensayo con el colémbolo *Folsomia candida* en la estimación del potencial ecotoxicológico de los lodos de depuradora para los suelos (Evaluation of a bioassay with the springtail *Folsomia candida* to measure sewage sludge toxicity to soil)*. MSc Thesis. Autonomous University of Barcelona. Student: Xavier Domene.

**2004.** *Dinámica de los bancos de semillas de *Ulex europaeus* en los cerros orientales de Bogotá (Colombia) (*Ulex europaeus* seed bank dynamics in Bogotá Eastern Hills, Colombia)*. MSc Thesis. Autonomous University of Barcelona. Student: Camilo de los Ángeles Cárdenas.

**2002.** *Indicadores urbanos de sostenibilidad aplicados a la integración metropolitana pre- y postolímpica de Barcelona (Urban sustainability indicators applied to Barcelona pre- and post-olympic metropolitan integration)* Graduation thesis. Autonomous University of Barcelona. Students: Marga Rodríguez Asenjo & Adriano-Bruno Chaves. Co-advisors: G. Munda & P. Andrés.

**1995-1996.** *Efecto de la aplicación de lodos de depuradora sobre las poblaciones de *Allolobophora chlorotica* y *Nicodrilus caliginosus meridionalis* en suelos de canteras restaurados (Effect of sewage sludge application to restored quarry soils on populations of *Allolobophora chlorotica* and *Nicodrilus caliginosus meridionalis*)* MSc. Autonomous University of Barcelona. Student: Ignacio Barrera. Co-advisors: P. Andrés & J.M. Alcañiz.

## **PUBLICATIONS**

### *Books and Book chapters*

- Acebillo J, Folch R, París A (eds.) (2000) *Atlas Ambiental de l'Àrea de Barcelona. Balanç de recursos i problemes*. Ariel Ciencia, Barcelona, 444 pp. ISBN. 84-344-8025-5. Contributing author.
- Andrés P (2002) *L'espai metropolità de Barcelona: reptes i limitacions ambientals*. In: Ávila A & Terradas J (eds.) *Aula d'Ecologia. Cicle de Conferències 2001*: 63-68. Servei de Publicacions de la UAB. Sèrie: Ciència i Tècnica. Barcelona. Barcelona, Spain, 78 pp. ISBN: 84-490-2274-6
- Andrés P (2008) *Construcción de un espacio integrado de investigación en medio ambiente y desarrollo en América Central*. In: *Actas del IV Congreso de Universidad y Cooperación al desarrollo*. Universidad Autónoma de Barcelona, Barcelona, Spain, ISBN: 978-84-490-2571-6.
- Andrés P (2008) *La planificación del territorio: conceptos y herramientas básicas*. In: Andrés P & Rodríguez R (eds.) *Evaluación y Prevención de Riesgos Ambientales en Centroamérica*. Documenta Universitaria. Girona, Spain, pp. 377-400. ISBN: 978-8496742-37-6
- Andrés, P (2008) *Introducción a la cartografía*. In: Andrés P & Rodríguez R (eds.). *Evaluación y Prevención de Riesgos Ambientales en Centroamérica*. Documenta Universitaria. Girona, Spain, pp. 339-357. ISBN: 978-84-96742-37-6
- Andrés P, Mateos E, Ascaso C (1999) *Soil Arthropods In: Rodà, Retana, Gracia & Bellot (eds.) Ecology of Mediterranean Evergreen Oak Forests*. Springer-Verlag, New York. pp. 341-354. ISBN 3-540-65019-9.
- Andrés P, Rodríguez R (eds.) 2008. *Evaluación y prevención de riesgos ambientales en Centroamérica*. ISBN: Documenta Universitaria. Girona, Spain. 412 pp. ISBN: 978-8496742-37-6.
- FAO, ITPS, GSBI, SCBD and EC. 2020. *State of knowledge of soil biodiversity - Status, challenges and potentialities, Report 2020*. Rome, FAO. Colaboradora para los capítulos 4 (*Threats to soil biodiversity - global and regional trends*) y 5 (*Responses and opportunities*) <https://doi.org/10.4060/cb1928en>.
- Fisher J, Cortina-Sagarra J, Grace M, Moreno-Mateos D, Rodríguez-González P, Baker S, Frouz J, Klimkowska A, Andrés P, Kyriazopoulos A, Bullock C, Sarkki S, García-Sánchez I, Porras Gómez J (2020). What is hampering current restoration effectiveness? An EKLIPSE Expert Working Group report. UK Centre for Ecology and Hydrology, Wallingford, UK. ISBN 978-1- 906698-67-6.
- Orgiazzi A, Bardgett RD, Barrios E, Behan-Pelletier V, Briones MJI, Chotte J-L, De Deyn GB, Eggleton P, Fierer N, Fraser T, Hedlund K, Jeffery S, Johnson NC, Jones A, Kandeler E, Kaneko N, Lavelle P, Lemanceau P, Miko L, Montanarella L, Moreira FMS, Ramirez KS, Scheu S, Singh BK, Six J, van der Putten WH, Wall DH (eds.) (2016) *Global Soil Biodiversity Atlas*. European Commission, Publications Office of the European Union, Luxembourg. 176 pp. Contributing author.

- Andrés P (1999) Ecological risks of the use of sewage sludge as fertilizer in soil restoration: Effects on the soil microarthropod populations. *Land Degradation & Development* 10:67-77
- Andrés P, Athias-Binche F (1998) Décomposition de la matière organique dans le sol de deux écosystèmes forestiers (Parc naturel de Montseny, Espagne). I. Abondance, biomasse et distribution des microarthropodes. *Vie et Milieu* 48:215-225
- Andrés P., Colomer F, Deneff K, Cotrufo F, Rosell A (2019). Belowground biota responses to maize biochar addition to the soil of a Mediterranean vineyard. *Science of the Total Environment* 660, 1522-1532.
- Andrés P, Doblas-Miranda E, Mattana S, Molowny-Horas R, Vayreda J, Guardiola M, Pino J, Gordillo J (2021). A battery of soil and plant indicators to evaluate the contribution of nature-based solutions for risk reduction to climate change mitigation and biodiversity promotion". *Sustainability* (In press)
- Andrés P, Domene X (2005) Ecotoxicological and fertilizing effects of dewatered, composted and dry sewage sludge on soil mesofauna: a TME experiment. *Ecotoxicology* 14, 545-557
- Andrés P, Jorba M (2000) Mitigation strategies in some motorway embankments. Catalonia, Spain. *Restoration Ecology* 8(3): 268-275.
- Andrés P, Mateos E (2006) Soil mesofaunal responses to post-mining restoration treatments. *Applied Soil Ecology* 33: 67-78.
- Andrés P, Mateos E, Tarrasón D, Cabrera, C, Figuerola B (2011) Effects of fresh, composted, and thermally dried sewage sludge on soil microbiota and mesofauna. *Applied Soil Ecology* 48, 236-242.
- Andrés P, Moore JC, Cotrufo F, Deneff K, Haddix ML, Molowny-Horas R, Riba M, Wall DH (2017). Grazing and edaphic properties mediate soil biotic response to altered precipitation patterns in a semiarid prairie. *Soil Biology & Biochemistry* 113, 263-274.
- Andrés P, Moore JC, Simpson RT, Selby G, Cotrufo F, Deneff K, Haddix ML, Shaw EA, Milano de Tomasel C, Molowny-Horas R, Wall DH (2016). Soil food web stability in response to grazing in a semi-arid prairie: the importance of soil textural heterogeneity. *Soil Biology & Biochemistry* 97, 131-143.
- Andrés P, Salgado C, Espelta JM (2011). Optimizing cost-effective nursery and plantation methods to grow *Cedrela odorata* seedlings in tropical dry agroecosystems. *Agroforestry System* 83, 225–234
- Andrés P, Zapater V, Pamplona M (1996) Stabilization of motorway slopes with herbaceous cover, Catalonia, Spain. *Restoration Ecology* 4:51-60
- Barrera I, Andrés P, Alcañiz JM (2001) Sewage sludge application on soil: effects on two earthworm species. *Water, Air and Soil Pollution*. 129: 319-332

- Chelinho S, Domene X, Campana P, Natal-da-Luz T, Scheffczyk A, Römbke J, Andrés P, Sousa JP (2011) Improving ecological risk assessment in the Mediterranean area: selection of reference soils and evaluating the influence of soil properties on avoidance and reproduction of the oligochaetes *Eisenia andrei* and *Enchytraeus crypticus*. *Environmental Toxicology and Chemistry* 30 (5): 1050–1058
- Chelinho S, Domene X, Andrés P, Natal-da-Luz T, Norte C, Rufino C, Lopes I, Cachada A, Espíndola E, Ribeiro R, Duarte AC, Sousa JP (2014) Soil microarthropod community testing: A new approach to increase the ecological relevance of effect data for pesticide risk assessment. *Applied Soil Ecology* 83, 200-209
- Chelinho S, Domene X, Campana, Andrés P, Römbke J, Sousa JP (2014) Toxicity of phenmedipham and carbendazim to *Enchytraeus crypticus* and *Eisenia andrei* (Oligochaeta) in Mediterranean soils. *Journal of Soils and Sediments*. 14: 584–599.
- Cortina-Segarra, J., García-Sánchez, I., Grace, M., Andrés, P., Baker, S., Bullock, C., Decler, K., Dicks, L.V., Fisher, J.L., Frouz, J., Klimkowska, A., Kyriazopoulos, A.P., Moreno-Mateos, D., Rodríguez-González, P.M., Sarkki, S., Ventocilla, J. L. (2021) Barriers to ecological restoration in Europe: expert perspectives. *Restoration Ecology*. <https://doi.org/10.1111/rec.13346>
- Domene X, Alcañiz JM, Andrés P (2007) Ecotoxicological assessment of organic wastes using the soil collembolan *Folsomia candida*. *Applied Soil Ecology* 35: 461-472.
- Domene X, Alcañiz JM, Andrés P (2008) Comparison of solid-phase and eluate assays to gauge the ecotoxicological risk of organic wastes on soil organisms. *Environmental Pollution* 151: 549-558.
- Domene X, Chelinho S, Campana P, Natal-da-Luz T, Alcañiz JM, Andrés P, Römbke J, Sousa JP (2011) Influence of soil properties on the performance of *Folsomia candida*: implications for its use in soil ecotoxicology testing. *Environmental Toxicity and Chemistry* 30 (7): 1497–1505
- Domene X, Natal-da-Luz T, Alcañiz JM, Andrés P, Sousa JP (2007) Feeding inhibition in the soil collembolan *Folsomia candida* as an endpoint for the estimation of organic waste ecotoxicity. *Environmental Toxicology and Chemistry* 26(7): 1538–1544.
- Domene X, Ramírez W, Mattana S, Alcañiz JM, Andrés P (2008) Ecological risk assessment of organic waste amendments using the species sensitivity distribution from a soil organisms test battery. *Environmental Pollution* 155 (2): 227-236.
- Domene X, Ramírez W, Solà L, Alcañiz JM, Andrés P (2009) Soil pollution by nonylphenol and nonylphenol ethoxylates and their effects to plants and invertebrates. *Journal of Soils and Sediments* 9:555–567.
- Domene X, Solà L, Ramírez W, Alcañiz JM, Andrés P (2011) Soil bioassays as tools for the sludge compost quality assessment. *Waste Management*. 31(3) 512-522.
- Pauli N, Abbott LK, Negrete-Yankelevich S, Andrés P. (2016) Farmers' knowledge and use of soil fauna in agriculture: a worldwide review. *Ecology and Society* 21(3):19.

- Pioli S, Sarneel J, Thomas HJD, Domene X, Andrés P, Hefting M, Reitz T, Laudon H, Sandén T, Piscová V, Aurela M, Brusetti L (2020). Linking plant litter microbial diversity to microhabitat conditions, environmental gradients and litter mass loss: Insights from a European study using standard litter bags, *Soil Biology and Biochemistry* 144, 107778. doi: <https://doi.org/10.1016/j.soilbio.2020.1077>
- Ramírez W, Domene X, Andrés P, Alcañiz JM (2008) Phytotoxic effects of sewage sludge extracts on the germination of three plant species. *Ecotoxicology* 17(8): 834-844.
- Ravera F, Tarrasón D, Andrés P, Grasa R (2009) Proceso y métodos de evaluación integrada participativa de degradación en agroecosistemas semiáridos. Un caso de estudio en un área protegida en el trópico seco nicaragüense. *Revista Iberoamericana de Economía Ecológica* 13: 79-99.
- Tarrasón D, Urrutia JT, Ravera F, Herrera E, Andrés P, Espelta JM (2010) Conservation status of tropical dry forest remnants in Nicaragua: Do ecological indicators and social perception tally? *Biodiversity and Conservation* 19: 813-827

#### *Science dissemination publications*

- Andrés P (1993) Impacte ambiental de les vies de transport. *Apunts de silvicultura* 2: 1517
- Andrés P (2008) El abonado de suelos con purines: buscando la reducción de riesgos. [www.3tres3.com](http://www.3tres3.com).
- Andrés P (2010) Degradación y restauración de los ecosistemas terrestres latinoamericanos. *Ambienta* 92: 58-70.

#### *Conference Books*

- Alcañiz, JM, Ortiz O, Carabassa V, Andrés P (2011). Enmiendas orgánicas y biosólidos para la rehabilitación de terrenos denudados. In: Ortiz Silla y Navarro Sánchez (ed.) *Control de la degradación y uso sostenible del suelo*. ISBN: 978-84-615-1679-7
- Andrés P (2012) *Recrear suelos captando carbono: la restauración de suelos mineros dentro de una estrategia ambiental global*. In: Domínguez-Haydar, Y., Boom, Y., Lamadrid, F. *Simposio Internacional de Restauración Ecológica. Retos y Estrategias de Restauración en el Caribe Colombiano*. ISBN: 978-958-8742-28-1
- Andrés P (2016) Response of the soil food web and its functions to increasing drought duration: an integrative approach from lab data and modeling. In: *Actas del I Simposio sobre relaciones planta-suelo*. AETT. DOI: 10.13140/RG.2.1.4997.0963
- Andrés P, Moore JC, Simpson RT, Selby G, Cotrufo F, Deneff K, Haddix ML, Shaw EA, Milano de Tomasel C, Molowny-Horas R, Wall DH (2015) Soil food web stability is affected by grazing in the short grass steppe. In: *2015 US Soil Ecology Society Meeting* p. 23 (available at <http://www.soilecologysociety.com/wp-content/uploads/2016/04/2015-Meeting-Program.pdf>)

- Andrés P, Ortiz O (2011) Soil restoration with urban wastes to improve soil environmental services. In: *SER 2011 World Conference on Ecological Restoration Abstracts*, p. 15 (available at [www.metla.fi/hanke/8547/pdf/ser2015-oral-abstracts.pdf](http://www.metla.fi/hanke/8547/pdf/ser2015-oral-abstracts.pdf))
- Andrés P, Santamaría S, Palacios-Vargas JG, Mejía Recamier BE, Iglesias R, Espadaler X (2015) *Heterogeneidad del territorio y biodiversidad en la restauración de pastizales*. In: *IV Congreso Iberoamericano y del Caribe de Restauración Ecológica. Libro de resúmenes*, p. 40 (available at [www.siacre2015.com.ar/libro-resumenes.pdf](http://www.siacre2015.com.ar/libro-resumenes.pdf))
- Andrés P, Tarrasón D, Ravera F, Espelta JM, López K, Urrutia, JT, Rocha J (2012) *La construcción de conocimiento complejo para la restauración de territorios económica y ambientalmente degradados. Un caso de aplicación a áreas ganaderas del trópico seco*. In: Domínguez-Haydar Y, Boom Y, Lamadrid F. Simposio Internacional de Restauración Ecológica. Retos y Estrategias de Restauración en el Caribe Colombiano. Book of abstracts, p.14. ISBN: 978-958-8742-28-1
- Andrés P, Tarrasón D, Ravera F (2011) Matching rural and scientific perceptions to improve environmental quality in livestock regions: The case of the "Mesas de Moropotente" Protected Area (Nicaragua). In: *SER 2011 World Conference on Ecological Restoration Abstracts*, p. 16 (available at [www.metla.fi/hanke/8547/pdf/ser2015-oral-abstracts.pdf](http://www.metla.fi/hanke/8547/pdf/ser2015-oral-abstracts.pdf))
- Barrera JI, Andrés P (2011) Effect of biosolids in the restoration of soils affected by opencast mining in highland forests of Bogotá (Colombia). In: *SER 2011 World Conference on Ecological Restoration Abstracts*, p. 25 (available at: [www.metla.fi/hanke/8547/pdf/ser2015-oral-abstracts.pdf](http://www.metla.fi/hanke/8547/pdf/ser2015-oral-abstracts.pdf))
- Barrera JI, Riba M, Ríos F, Andrés P (2011) Andean tropical forest restoration affected by invasion of *Ulex europaeus* L. In: *SER 2011 World Conference on Ecological Restoration Abstracts*, p. 26 (available at: [www.metla.fi/hanke/8547/pdf/ser2015-oralabstracts.pdf](http://www.metla.fi/hanke/8547/pdf/ser2015-oralabstracts.pdf))
- Chelinho S, Domene X, Natal-da-Luz T, Andrés P, Norte C, Rufino C, Lopes I, Cachada A, Espindola E, Ribeiro R, Duarte AC, Sousa JP (2012) Using soil microarthropod community testing to increase ecological relevance of effect data in pesticide risk assessment. In: *6th SETAC World Conference Abstracts*, p. 89 (available at: [https://c.ymcdn.com/sites/www.setac.org/resource/resmgr/Abstract\\_Books/SE-abstractbook-2012.pdf](https://c.ymcdn.com/sites/www.setac.org/resource/resmgr/Abstract_Books/SE-abstractbook-2012.pdf))
- Domene X, Colon J, Ojeda G, Ortiz O, Andrés P, Alcañiz JM (2007) *Ecotoxicological assessment of the use of sewage sludge in the restoration of degraded land*. In: Sierra et al. (eds.) *Procs. of the International Meeting on Soil and Wetland Ecotoxicology SOWETOX*. Universitat Barcelona, Barcelona, Spain. ISBN 978-84-475-3247-6.
- Ojeda G, Domene X, Mattana S, Sousa JP, Ortiz O, Andrés P, Alcañiz JM (2012). Soil biochar amendments: type and dose effects. In *EGU General Assembly Conference Abstracts* (Vol. 14, p. 11763).
- Ravera F, Tarrasón D, Grassa R, Herrera A, Andrés, P (2008) *Evaluación social multicriterios para la gestión sostenible de sistemas silvopastoriles semiáridos de*

*Nicaragua: un ejemplo de investigación y cooperación interuniversitaria*. In: Actas del IV Congreso de Universidad y Cooperación al desarrollo. Universidad Autónoma de Barcelona, Barcelona, Spain, ISBN: 978-84-490-2571-6.

## CONTRIBUTION TO CONFERENCES

Alcañiz JM, Andrés P, Domene X, Paco D, Ortiz O (2013) *Efectos de dos tipos de biochar de pino sobre propiedades físicas del suelo y el desarrollo de la cebada*. Oral presentation. Jornada sobre Evaluación de Ecotoxicidad para la Protección de Suelos. 29th Reunión de la Sociedad Española de la Ciencia del Suelo. Universitat de les Illes Balears / SECS. Mallorca September 3-6.

Alcañiz, JM, Ortiz O, Carabassa V, Andrés P (2011). *Enmiendas orgánicas y biosólidos para la rehabilitación de terrenos desnudados*. Oral presentation. V Simposio Nacional sobre Control de la Degradación y Uso Sostenible del Suelo. Universidad de Murcia/ Universidad Politécnica de Cartagena/ CEBAS-CSIC. Murcia, June 27-30.

Andrés P (2005) *Diferentes enfoques en los ensayos de toxicidad con fauna edáfica*. Oral presentation. Jornada sobre Evaluación de Ecotoxicidad para la Protección de Suelos”.

CREAF, Cerdanyola del Vallès (Barcelona).

Andrés P (2006) *Riesgo ambiental asociado a la aplicación al suelo de lodos de depuradoras urbanas*. Invited speaker. Jornadas sobre Riesgo Químico en suelos contaminados. Intexter / Laboratorio de Toxicología Ambiental (UPC). Intexter. Terrassa. March 3.

Andrés P (2007) *Catástrofes naturales y desarrollo: Nicaragua en el ojo del huracán*. Invited speaker. Primer Encuentro de Escritores por la Tierra. Asociación para el desarrollo de Solentiname (APDS). Granada (Nicaragua). March 06-12.

Andrés P (2007) *La difícil relación entre parques naturales y ciudades: el caso del parque de Collserola (Barcelona, España)*. Invited speaker. Seminario Internacional de Montañas Periurbanas. Santafe de Bogotá (Colombia).

Andrés P (2007) *Restauración de cuencas degradadas: sugerencias para el manejo de la complejidad territorial*. Invited plenary speaker. I Simposio Nacional de Experiencias de Restauración Ecológica “Entre la sucesión y los disturbios”. Universidad Javeriana. Santafe de Bogotá (Colombia). July 31- August 3.

Andrés P (2008) *Investigación para el Desarrollo en América Latina*. Oral presentation. Jornadas de Cooperación de la UAB. Fundación Autónoma Solidaria (UAB), Cerdanyola del Vallès, Barcelona. April 17.

Andrés P (2008) *Lluvia en Centroamérica: de la gestión del agua a la gestión de la sequía*. Invited speaker. Jornadas de trabajo de la Red de Escritores por la Tierra. Santa Tecla, El Salvador. March 5-8.

Andrés P (2011) *Matching rural and scientific perceptions to improve environmental quality in livestock regions: the case of the Mesas de Moropotente Protected Area*

(Nicaragua). Oral presentation. SER 4th World Conference on Ecological Restoration. Mérida (México). August 21-25.

Andrés P (2012) *Recrear suelos captando carbono: la restauración de suelos mineros dentro de una estrategia ambiental global*. Invited speaker. Simposio Internacional de Restauración Ecológica. Retos y Estrategias de Restauración en el Caribe Colombiano. Universidad del Atlántico. Barranquilla (Colombia). July 25-27.

Andrés P (2013) *¿Restauración de suelos o eliminación de residuos?* Invited plenary speaker. III Congreso Iberoamericano y del Caribe de Restauración Ecológica, II Congreso Colombiano de Restauración Ecológica y III Simposio Nacional de Restauración Ecológica. RIACRE/REDCRE. Santafé de Bogotá. Colombia. July 29-31.

Andrés P (2013) Cuando la restauración ecológica enfrenta la urgencia económica. Invited speaker. III Congreso Iberoamericano y del Caribe de Restauración Ecológica, II Congreso Colombiano de Restauración Ecológica y III Simposio Nacional de Restauración Ecológica. RIACRE/REDCRE. Santafé de Bogotá. Colombia. July 29-31

Andrés P (2013) *Estado actual de la restauración de actividades extractivas en Cataluña*. Invited speaker. III Congreso Iberoamericano y del Caribe de Restauración Ecológica, II Congreso Colombiano de Restauración Ecológica y III Simposio Nacional de Restauración Ecológica. RIACRE/REDCRE. Santafé de Bogotá. Colombia. July 29-31.

Andrés P (2013) *Soil Biodiversity: Drivers, Functions and Threats*. Invited plenary speaker. International Workshop on "Soil biodiversity functions and environmental services in Mediterranean forests - Effects of land use on soil trophic webs under an uncertain climate". CREAM/Generalitat de Catalunya/Universidad Autónoma de Barcelona. Barcelona. March 13-15.

Andrés P (2015) *Climate change and carbon cycle in the Rocky Mountains NP. The amazing machinery under our feet*. Invited talk to the monthly seminar series of the Colorado Mountain Club "Shining Mountains" Group. Rocky Mountains NP headquarters. Estes Park. Colorado, USA. May 9.

Andrés P (2015) Soil food web stability is affected by aboveground herbivory. Plenary session of the seminar "Improving our knowledge on the taxonomy and functional roles of soil fauna (SOILDIVFUN). CSIC/UB. University of Barcelona. December 14-15

Andrés P (2016) Response of the soil food web and its functions to increasing drought duration: an integrative approach from lab data and modeling. I Symposium on plant-soil interactions. AETT. Madrid, February 25-26.

Andrés P (2016) Soil biodiversity: the bewitching life machine under our feet. Opening lecture of the XIII CREAM-SCB-ICHN day work on "The role of soil in nature conservation" (*El paper dels sòls en la conservació de la natura*). SCB-ICHN-CREAM. Barcelona, November 22.

Andrés P (2017) La texture du sol détermine la réponse des réseaux trophiques aux changements du régime de pluie (*Soil texture determines soil trophic web response to*



- shifts in the rainfall regime*). Oral presentation. 41<sup>èmes</sup> Journées Scientifiques du GFHN. GFHN/ECCOREV/IMBE. Observatoire de Haute-Provence, St Michel l'Observatoire (France). January 23-25.
- Andrés P (2017) Post-restoration indicators of belowground communities' structure and functionality: A 20-year journey across soil biodiversity. Oral presentation. SER 7<sup>th</sup> World Conference on Ecological Restoration. *Linking Science and Practice for a Better World*. Iguassu, Brazil. August 27 - September 1.
- Andrés P (2017) Sport and Nature Conservation: friends or foes? Plenary talk to the 4<sup>th</sup> Nature & Sports Euromeet. La Seu d'Urgell, Lleida, Spain. September 26-29
- Andrés P (2018) La restauración ecológica frente a la creciente incertidumbre global. Invited key speaker. IV *Congreso Colombiano de Restauración Ecológica*; I International Amazonic Symposium on Ecological Restoration. Florencia, Colombia. July 30 – August 3.
- Andrés P, Doblas-Miranda E, Mattana S, Silva A, Font F, Madeo N (2021): Ecological intensification of Mediterranean vineyards: effects on soil conservation and economic viability. Poster. Global Symposium on Soil Biodiversity. FAO. On-line symposium. 10-12 march 2020, Postponed to April 19-22, 2021.
- Andrés P, Doblas E, Pino J, Vayreda J, Molowny-Horas R (2019) Nature-based solutions for hydro-meteorological risk reduction in European mountain regions. Oral presentation. 1<sup>st</sup> Meeting of the Iberian Ecological Society & XIV AEET Meeting "*Ecology: an integrative science in the Anthropocene*". Barcelona, Spain. February 4-7.
- Andrés P, Mateos E, Domene, X (2009) *Evaluación integrada de la calidad de suelos restaurados: el uso de bioindicadores basados en los microartrópodos edáficos*. Oral presentation. Congresso Iberoamericano e do Caribe sobre Restauração Ecológica. Soil restoration with urban wastes to improve soil environmental services. SER 4<sup>th</sup> World Conference on Ecological Restoration. MériCuritiba, Brasil. November 11-13.
- Andrés P, Moore JC, Simpson RT, Selby G, Cotrufo F, Deneff K, Haddix ML, Shaw EA, Milano de Tomasel C, Molowny-Horas R, Wall DH (2015) Soil food web stability is affected by grazing in the short grass steppe. Oral presentation. 2015 Soil Ecology Society Meeting. Colorado Springs, Colorado, USA. June 9th-12th
- Andrés P, Moore JC, Cotrufo F, Deneff K, Molowny-Horas R, Wall DH (2016) Soil food web response to land use intensification and climate change: integrating field evidence and modeling. Oral presentation. ECOSUMMIT. Montpellier, France. August 28-September 1.
- Andrés P, Ortiz O (2011) *Soil restoration with urban wastes to improve soil environmental services*. Oral presentation. SER 4<sup>th</sup> World Conference on Ecological Restoration. Mérida (México). August 21<sup>th</sup>-25<sup>th</sup>
- Andrés P, Rosell-Melé A, Colomer F, Alcañiz JM, Deneff K (2015) Effect of biochar on soil microbial community- A field experiment in Mediterranean soils. Poster.

International Conference on Ecology of soil Microorganisms. Microbes as Important Drivers of Soil Processes. November 29th to December 3rd. Prague, Check Republic.

Andrés P, Santamaría S, Palacios-Vargas JG, Mejía Recamier BE, Iglesias R, Espadaler X (2014) *Tropical pasture heterogeneity and soil arthropod biodiversity: "Bad plants" also help*. Ponencia. The First Global Soil Biodiversity Conference. Dijon, France. December 2th-5th

Andrés P, Santamaría S, Palacios-Vargas JG, Mejía Recamier BE, Iglesias R, Espadaler X (2015) *Heterogeneidad del territorio y biodiversidad en la restauración de pastizales*. Oral presentation. IV Congreso Iberoamericano de Restauración Ecológica. SIACRE. Buenos Aires, Argentina. 12-16 de abril de 2015

Andrés P, Tarrasón D, Ravera F, Grasa R, Contreras T, Espelta JM (2008) *Sistemas silvopastoriles en trópico seco: construcción participativa del conocimiento para evaluar sostenibilidad y gobernanza locales*. Oral presentation. IUCN World Conservation Congress. Pabellón de Cataluña. Barcelona. October 5-14.

Andrés P, Tarrasón D, Ravera F, Grasa R, Contreras T, Espelta JM, Rodríguez R (2007) *Gestión integrada de recursos en los sistemas agrosilvopastoriles de las Mesas de Moropotente (Nicaragua). Una aproximación desde la Evaluación Social Multicriterios*. Oral presentation. Jornadas sobre Investigación en Agricultura para el Desarrollo. Escuela Superior de Agricultura. UPC. Castelldefels December 13-14.

Andrés P, Tarrasón D., Ravera F, Espelta JM, López K., Urrutia, JT, Rocha J (2012) *La construcción de conocimiento complejo para la restauración de territorios económica y ambientalmente degradados. Un caso de aplicación a áreas ganaderas del trópico seco*. Invited speaker. Simposio Internacional de Restauración Ecológica. Retos y Estrategias de Restauración en el Caribe Colombiano. Universidad del Atlántico. Barranquilla (Colombia). July 25-27.

Andrés P, Villalobos R, Bonfil C (2018) *Ecological restoration and the social construction of the territory*. Oral presentation. SER Europe Conference on "Restoration in the Era of Climate Change". Reykjavik, Iceland. 9-13 September

Barrera JI, Andrés P (2011) *Effect of biosolids in the restoration of soils affected by opencast mining in highland forests of Bogotá (Colombia)*. Oral presentation. SER 4th World Conference on Ecological Restoration. Mérida (México). August 21-25.

Barrera JI, Riba CM, Ríos EF, Andrés P (2011) *Andean tropical forest restoration affected by invasion of *Ulex europaeus* L*. Oral presentation. SER 4th World Conference on Ecological Restoration. Mérida (México). August 21-25.

Chelinho S, Domene X, Natal-da-Luz T, Andrés P, Norte C, Rufino C, Lopes I, Cachada A, Espindola E, Ribeiro R, Duarte AC, Sousa JP (2012) *Using soil microarthropod community testing to increase ecological relevance of effect data in pesticide risk assessment*. Oral presentation. SETAC World Congress/SETAC Europe 22nd Annual Meeting. Berlin, Germany, May 20-24.

- Chelinho S, Domene X, Natal-da-Luz T, Campana P, Andrés P, Römbke J, Sousa, JP (2006) *Effects of phenmedipham on the reproduction of Enchytraeus crypticus (Oligochaeta) and Folsomia candida (Collembola) in twelve Mediterranean Soils*. Poster. 16<sup>th</sup> Annual Meeting of SETAC Europe. The Hague, The Netherlands. May 7-11.
- Chelinho S, Domene X, Natal-da-Luz T, Lopes I, Espíndola E, Andrés P, Ribeiro R, Sousa JP (2009) *Soil microarthropod community testing: a new approach to increase the ecological relevance of effect data for pesticide risk assessment*. Oral presentation. SETAC Europe 19<sup>th</sup> Annual Meeting: Protecting ecosystem health: facing the challenge of a globally changing environment. Göteborg, Sweden. May 31- June 4.
- Chelinho S, Natal-da-Luz, T Campana P, Domene X, Andrés P, Römbke J, Sousa JP (2005) *Selection of natural reference soils for the Mediterranean Basin -avoidance and reproduction tests with oligochaeta and collembolan*. Poster. 15<sup>th</sup> Annual Meeting of SETAC Europe. Lille (France). May 22-26.
- Doblas-Miranda E, Andrés P, Mattana S, Guardiola M (2020) *Plant composition and micro-arthropod density relationships in a meadow to alpine forest succession*. Oral presentation. III Symposium on Plant-Soil Interactions of the PlanSoil Working Group of the Spanish Association of Terrestrial Ecology (AEET). UB, Barcelona. Spain. March 19-20. (Postponed due to COVID restrictions)
- Domene X, Alcañiz JM, Andrés P (2007) *Suitability of solid phase and eluate tests for the ecotoxicological risk assessment of organic wastes*. Poster. 17<sup>th</sup> Annual Meeting of SETAC Europe. Porto. Portugal. 20-24 May.
- Domene X, Andrés P (2005) *A sewage sludge toxicity evaluation method with the collembolan Folsomia candida*. Oral presentation. 15<sup>th</sup> Annual Meeting of SETAC Europe. Lille (France). May 22-26.
- Domene X, Natal-da-Luz T, Alcañiz JM, Andrés P, Sousa JP (2006) *A new method for the ecotoxicological evaluation of organic wastes based on the feeding inhibition of Folsomia candida*. Poster. 16<sup>th</sup> Annual Meeting of SETAC Europe. The Hague, The Netherlands. May 7-11.
- Domene X, Ramírez W, Mattana E, Andrés P, Alcañiz JM (2007) *Estimation of organic waste safe amendment rates from the species sensitivity distribution of a soil test battery*. Poster. 17<sup>th</sup> Annual Meeting of SETAC Europe. Porto. Portugal. May 20-24.
- Domene X, Ramírez W, Mattana S, Ojeda G, Andrés P, Ortiz O, Alcañiz JM (2008) *Evaluación ecotoxicológica de composts de lodos de depuradora*. Oral Presentation. I Jornadas de la Red Española de Compostaje (REC). Barcelona. February 6-9.
- Domene X, Ramirez W, Mattana S, Ortiz O, Andrés P, Alcañiz JM (2007) *Avaluació de la qualitat dels fangs de depuradora mitjançant assaigs ecotoxicològics*. Poster. III Jornades tècniques: tractament i valorització de fangs. Agència Catalana de l'Aigua. Barcelona. October 16-17.

- Molowny-Horas, R., Andrés, P., Doblás-Miranda, E., Vayreda, J., Pino, P., Caroppi, G., Pugliese, F., Giugni, M., Del Seppia, N (2019). *Evaluation of a Nature-Based Solution to reduce water pollution in the Massaciucoli Lake*. Oral presentation. MUSLOC (Multi-scale analysis of the slopes under climate change. A cross-disciplinary workshop) Barcelona, Spain. September 19-20.
- Ojeda G, Domene X, Mattana S, Sousa JP, Ortiz O, Andrés P, Alcañiz JM (2012) *Soil biochar amendments: type and dose effects*. Poster. European Geosciences Union (EGU) General Assembly 2012. Vienna, Austria. April 22–27. Published in Geophysical Research Abstracts Vol. 14, EGU2012-11763-1, 2012. EGU General Assembly 2012.
- Palacios-Vargas JG, Mejía Recamier BE, Iglesias R, Andrés P, Bach C (2011) *Nuevos datos de Collembola (Hexapoda) neotropicales*. Oral presentation. XX Congreso Nacional de Zoología, México. Cuernavaca, México. November 14-18.
- Ravera F, Tarrason D, Urrutia J, Andrés P (2007) *Understanding the agro-silvopastoral socio-ecological system of Mesas de Moropotenté Reserve (Nicaragua). A participatory process of knowledge co-construction for sustainability evaluation and local governance*. Poster. Integrating Natural and Social Sciences for Sustainability. 7<sup>th</sup> International Conference of the European Society for Ecological Economics. Leipzig, Germany. June 5-8.

## ORGANIZATIONAL ACTIVITIES

- 2020.** Chair of the III Symposium on Plant-Soil Interactions of the PlanSoil Working Group of the Spanish Association of Terrestrial Ecology (AEET). UB, Barcelona. March 19-20 (Postponed due to COVID restrictions)
- 2018.** Chair of the 43<sup>èmes</sup> Journées scientifiques GFHN. Dégénération et restauration des sols naturels, agricoles et urbains en climat aride et semi-aride: mesure, caractérisation et modélisation des processus hydriques. GFHN-CREAF-University of Barcelona. IEC, Barcelona, November 19-21.
- 2018.** Chair of the seminar on “Ecological restoration under complex socio-environmental conditions: the Latin-American experience”. SER Europe Conference on “Restoration in the Era of Climate Change”. Reykjavik, Iceland. 9-13 September
- 2018.** Member of the Scientific Committee of the *IV Congreso Colombiano de Restauración Ecológica*; I International Amazonic Symposium on Ecological Restoration. Florencia, Colombia. July 30 – August 3.
- 2017.** Member of the Scientific Committee of the SER 7<sup>th</sup> World Conference on Ecological Restoration. *Linking Science and Practice for a Better World*. Iguassu, Brazil. August 27 - September 1.

- 2017.** Chair of the seminar on “Biological tools in soil restoration”. SER 7<sup>th</sup> World Conference on Ecological Restoration. *Linking Science and Practice for a Better World*. Iguassu, Brazil. August 27 - September 1.
- 2016.** Member of the Organizing Committee of the XXII CREAM-SCB-ICHN seminar on “Soils, a pending subject in nature conservation” (*El sòl, una assignatura pendent en la conservació de la natura*). Barcelona, November 22.
- 2013.** Member of the Scientific Committee and Organizing Committee of the *III Congreso Iberoamericano y del Caribe de Restauración Ecológica, II Congreso Colombiano de Restauración Ecológica* and *III Simposio Nacional de Restauración Ecológica*. Red Iberoamericana y del Caribe de Restauración Ecológica (RIACRE) y Red Colombiana de Restauración Ecológica (REDCRE). Santafé de Bogotá. Colombia. July 29-31.
- 2013.** Chair of the *International Workshop on Soil biodiversity functions and environmental services in Mediterranean forests - Effects of land use on soil trophic webs under an uncertain climate*. CREAM / Generalitat de Catalunya / Universidad Autónoma de Barcelona. UAB Campus, Barcelona, Spain. March 13-15.
- 2012.** Chair of the *International seminar on effects of land use on soil trophic webs under an uncertain climate*. CREAM / Generalitat de Catalunya / Universidad Autónoma de Barcelona. UAB Campus, Barcelona, Spain. March 15-17.
- 2011.** Member of the Scientific Committee of the *I Congreso en Investigación en Agricultura para el Desarrollo. Research Network on Agriculture for Development*. ETSI Agrónomos. Madrid, Spain. October 17-18.
- 2007.** Member of the Scientific Committee of the International Meeting “Soils and Wetlands Ecotoxicology”. UAB/UdG/UB/CREAM/IEC. Barcelona, Spain, November 26-27.
- 2006.** Facilitator of the International Workshop for the redaction of the *Training Program in Environmental Management and Sustainable Development in Central America and Dominican Republic*. Araucaria XXI Program, Agencia Española de Cooperación Internacional (AECI). La Antigua, Guatemala.
- 2005.** Chair of the *Workshop on Joint decision-making for restoration and sustainable management of the silvopastoral ecosystems at the Miraflores-Moropotente Protected Area (Nicaragua)* UAB/CREAM/UNAN Managua/UAEM/MARENA. Estelí, Nicaragua. October 12-13.
- 2005.** Chair of the *International Workshop for Joint Research on Integrated Management of Dry Tropical Watersheds*. CREAM / Red Mesoamericana de Recursos Bióticos (REDMESO)/ UAEM (México) / UAQ (México) / UNAN (Nicaragua)/ UCA/ (Nicaragua)/ ICTA (UAB). AUQ Campus, Querétaro, Mexico. September 8.
- 2004-2005.** Chair of the *I and II Meetings of the International Network for Environmental Risk Prevention and Mitigation in Central America*. EU ALFA Program/CREAM/ICTA. Campus UAB, Barcelona, Spain. April 17-19, 2004 and April 15-16, 2005.

**2003-2011.** Chair of the *International Network CENTRALRISK for Environmental Risk Prevention and Mitigation in Central America*, founded by the EU in the framework of the ALFA II Program.

**2003.** *Workshop on Ecotourism in Nicaragua*. CREAM (Barcelona)/ NITLAPAN (Nicaragua). Co-coordinator of the Workshop together with T. Barahona (Nitlapan). León, Nicaragua.

**2001.** Member of the Scientific Committee of the *I International Virtual Congress on Urban Ecology* (CIEC). Red Temática de Ecología y Ciudad. Virtual headquarters in Barcelona, Spain. January-March.

**1996-2005.** Co-organizer of the 1th to 10th editions of the *Aula de Ecología de la Ciudad de Barcelona*. Barcelona Council / UAB/CREAF. Barcelona, Spain. (Co-organizers: J. Terradas and A. Ávila)

## POST GRADUATE TEACHING

**2013.** Master's Program in Environmental Management and Restoration. Universidad de Alicante. Invited lecturer in *Integrated Landscape Restoration*. Alicante, Spain.

**2009-2012.** Master's Program in Renewable Energy Integration in Architecture. ETSAB, Universidad Politécnica de Cataluña. Coordinator and lecturer in *Urban Environment*. Barcelona, Spain.

**2009.** Researchers' Training Course on *Soil Ecology*, in the framework of the project "Desarrollo de un programa de capacitación científico-técnica y creación de una estación experimental en trópico seco en la Facultad Regional Multidisciplinar de Estelí/UNAN/Managua (Nicaragua)". Universidad Autónoma de Barcelona/ UNAN-Managua. General coordinator and teacher. Estelí, Nicaragua.

**2007-2009.** Master's Program in Architecture and Urban Environment. ETSAB, Universidad Politécnica de Cataluña. Coordinator and teacher in the module *Urban Microecology*. Barcelona, Spain.

**2007-2008.** Inter-University Master's Program in Environment and Natural Resources. Universidad Autónoma de Barcelona/ UNAN-Managua/ Universidad Autónoma de Querétaro. Lecturer in *Land Planning* and *Urban Ecology*. Estelí, Nicaragua.

**2007.** Short Course in Environmental Quality and Quality of Life. Universidad Rovira i Virgili / Fundació Mediterrània. Invited lecturer in *Environmental Risks of Biosolid Reuse as Fertilizers*. Conference Hall of the Tarragona Port Authority. Tarragona, Spain.

**2005.** International Postgraduate Course in Evaluation, Prevention and Mitigation of Environmental Risks caused by urban and industrial activities. CentralRisk Network. EU ALFA Program. General Coordinator of the course and lecturer in *Land Planning*. UdG/UAB, Girona, Spain.

**2005.** Master's Program in Ecological Economics and Environmental Management. Universidad Autónoma de Barcelona. Lecturer in *Urban Ecology*. Barcelona, Spain.

- 2004-2006.** International Master's Program in *Environmental Risk Assessment and Prevention in Central America*. CentralRisk Network. EU ALFA Program. General Coordinator of the Program. Estelí (Nicaragua)/ Girona (Spain/ Barcelona (Spain).
- 2004.** International Postgraduate Course in *Evaluation, Prevention and Mitigation of Environmental Risks of Natural Origin*. CentralRisk Network. EU ALFA Program. General Coordinator of the course and lecturer in *Introduction to Environmental Cartography*. CURN Estelí, Nicaragua.
- 2004.** International Course on *Urban Ecology*. Pontificia Universidad Javeriana/ CREAM/ Universidad Politécnica de Cataluña. Invited lecturer. Santafé de Bogotá. Colombia.
- 2003.** Workshop on *Land-use planning in Nicaragua*. CREAM (Barcelona)/ NITLAPAN (Nicaragua). Co-coordinator of the Workshop together with T. Barahona (Nitlapan). Siuna, Nicaragua.
- 2003.** International course on *Ecological Restoration of Quarries and Biosolid Use*. Pontificia Universidad Javeriana/ DAMA/ CREAM. Invited lecturer. Santafé de Bogotá. Colombia.
- 2002.** Master's Program in Public Sector Management and Sustainable Development. Universidad Autónoma de Barcelona. Lecturer in the module *Action Techniques*. Barcelona, Spain.
- 2002.** Master's Program in Environmental Management and Natural Resources. Universidad Autónoma de Barcelona /UNAN-Managua. Lecturer in the module *Environmental Impact and Land-use Planning*. Estelí, Nicaragua.
- 2002.** Doctorate course in *Soil in Environmental Studies*. Universidad Autónoma de Barcelona. Invited Lecturer in *State of the Soils in the EU* and in *Soil Ecotoxicology*. Barcelona, Spain.
- 2001.** Master's Program in Ecological Economics and Environmental Management. Universidad Autónoma de Barcelona. Lecturer in *Urban Ecology*. Barcelona, Spain.
- 2001.** Master's Program in Development, Population and Environment with emphasis on the rural sector. Universidad Autónoma de Barcelona/Universidad Politécnica de Nicaragua. Lecturer in *Environmental Impact studies*. Managua. Nicaragua.
- 2000.** International Workshop on Urban Ecology. Universidad Nacional de Colombia. Invited lecturer in *Urban Ecology*. Santafe de Bogotá. Colombia.
- 1999–2006.** Postgraduate Course in Architecture and Urban Environment. ETSAB, Universidad Politécnica de Cataluña. Teacher in *Urban Ecology*. Barcelona, Spain.
- 1999.** First International Course in Restoration Ecology. Universidad Autónoma de Barcelona/ Fundación de Restauración de Ecosistemas Tropicales/ Universidad Nacional de Colombia. Lecturer in *Vegetation Tools in Soil Restoration, Restoration Planning and Environmental Monitoring Plans*. Santafé de Bogotá Colombia.
- 1999.** Master's Program in Environment and Natural Resources. Universidad Autónoma de Barcelona/ Universidad Nacional de El Salvador/ Asociación Catalana de

Profesionales para la Cooperación. Lecturer in *Environmental Impact Studies* and *Land-use Planning*. San Salvador, El Salvador.

**1999.** Master's Program in Environment and Natural Resources. Universidad Autónoma de Barcelona/ Universidad Nacional Autónoma de Managua/ Asociación Catalana de Profesionales para la Cooperación. Lecturer in *Environmental Impact Assessment* and *Land-use Planning*. Managua, Nicaragua.

**1998.** Postgraduate Course on Soil Conservation and Restoration. Universidad Autónoma de Barcelona. Lecturer in *Regional Planning of Soil Conservation*, *Soil Restoration after motorway construction* and *Quarry Restoration Monitoring*. Barcelona, Spain.

**1998.** Doctorate Course in Natural Resource Management. Universitat Autònoma de Barcelona. Invited lecturer in *Urban Ecology* and *Forests and Greenhouse Effect*. Barcelona, Spain.

**1997-1999.** Postgraduate Program in Environmental Education, First and Second Editions. Universidad Autónoma de Barcelona. Lecturer in *Environmental Impact Assessment* and *Land-use Planning*. Barcelona, Spain.

**1996-1997.** Postgraduate Program in Environmental Education. Universidad Politècnica de Catalunya. Lecturer in *Environmental Impact Assessment* and *Land-use Planning*. Barcelona, Spain.

**1996.** Postgraduate Course in Soil Conservation and Restoration. Universidad Autónoma de Barcelona. Lecturer in *Regional Planning of Soil Conservation* and *Revegetation Plans*. Barcelona, Spain.

**1994.** Monographic Courses at the Barcelona Botanic Garden. Lecturer in *Native Plant Heritage Inventories* and *Vegetation in Environmental Impact Assessment*. Barcelona, Spain.

**1992.** Environment Technicians' Training Course. Técnicos para la iniciativa. Invited Lecturer in *Environment Conservation*. Barcelona, Spain.

**1992.** Postgraduate Course in Soil Conservation and Restoration. Universidad de Barcelona. Lecturer in *Use of vegetation in Ecological Restoration* Barcelona, Spain.

**1991-1993.** Postgraduate Course in Econometrics and Environmental Management. First, Second and Third Editions. Universidad de Barcelona. Lecturer in *Environmental Impact Assessment* and *Physical Planning*. Barcelona, Spain.

**1991-1992.** First Inter-University Postgraduate Course in Environmental Management for the Rural Sector. Universidad Autónoma de Barcelona, Universidad de Barcelona, Universidad Politècnica de Catalunya. Lecturer in *Environmental Impact Assessment*. Barcelona, Spain.

## **OUTREACH & TRAINING OF ENVIRONMENTAL MANAGERS**

Andrés P (2017) Multifunctional land planning to face uncertain scenarios. Invited talk to the BIO4ECO Interreg Europe Thematic Workshop “The Energy-food-water land use



- nexus: possible equilibriums for the low carbon transition. Smart land use for low carbon economy. Riga, Latvia. June 13-15.
- Andrés P (2017) *Soil biodiversity and agricultural practices*. Invited talk to members of the “Llavors Orientals” agricultural association. Cardedeu, Barcelona. June 18.
- Andrés P (2017) *Belowground biodiversity and agricultural soil fertility*. Invited talk in the VIII Fira del Tomàquet del Vallès. Centre Cívic i Cultural La Fàbrica. Santa Eulàlia de Ronçana, Barcelona. July 23.
- Andrés P (2017) *Environmental services provided by soil biodiversity*. Invited talk as a part of the Training program for technicians in Ecosystem Services. Generalitat de Catalunya. Department of Territory and Sustainability. Museum Colet, Barcelona. September 18.
- Andrés P (2017) *Consequences of over-fertilization with phosphorus for agricultural soil metabolism*. Invited contribution to the technical seminar “Soil fertilization under Phosphorus criteria”. Waste Agency of Catalonia. Barcelona, November 24.
- Andrés P (2017) *Soil biodiversity and ecosystem services*. Work meeting as a part of the technical staff training in Environmental Services (140119-1). Generalitat de Catalunya. Department of Territory and Sustainability. Barcelona, September 18.
- Andrés P (2018) *Below-ground biodiversity in agricultural soils: functions and conservation*. Invited talk to the Bages Farmers’ Group for Plant Protection. Pla de Bages (Barcelona), February 16.
- Andrés P (2018) *Soil Ecology and Belowground Biodiversity Management*. Invited contribution to the technical workshop on “Management of soil fertilization: a key to improving crop health”. 2018 Annual Plan on Technology Transfer. Generalitat de Catalunya. Department of Agriculture, Cattle, Fishing and Food. Vilabertran (Girona), February 20.
- Andrés P (2018) *Soil biodiversity restoration to restore agricultural lands*. Invited contribution to the technical workshop on “Soil management is the Great Ignored in intensive farming”. 2018 Annual Plan on Technology Transfer. Generalitat de Catalunya. Department of Agriculture, Cattle, Fishing and Food. Escola Politècnica Superior de la UdG. Girona, November 29
- Andrés, P. (2019). "Biological indicators of soil ecological quality ". Theoretical session for the training course “Interpretation of the Fertility of Agricultural Lands through”. College of Agriculture and Forestry Technical Engineers of Catalonia. UdG, Girona, November 14-15.
- Andrés P (2020) Invited speaker to the First Workshop on Energy Transition of the Energy Transition Chair Network of the UB-REPSOL Foundation. “Capture, use and storage of CO<sub>2</sub>: natural climate solutions”. College of Civil Engineers, Barcelona. February 20.

Andrés, P. (2020) Webinar “La restauración de suelos en un contexto de cambio climático” (*Soil restoration in a climate change context*). On-line workshop for the Red Colombiana de Restauración Ecológica (*Colombian Network for Ecological Restoration*) (*REDCRE*) (<https://twitter.com/redcre>) October 16, 2020.

## **CITIZEN SCIENCE**

**2017** (active). Responsible in Spain for the Global Tea Bag Index Project. 75 Spanish schools and higher education institutions are generating data about litter decomposition rates across ecosystems)