

PILAR ANDRÉS PASTOR

September 2025



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EDUCATION

Academic degrees

1990. *PhD 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).

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

1980 *Degree in Biology* (specializing in Zoology). University of Navarra (Pamplona, Spain).

Complementary studies

2022. *Training Workshop on Strategic Food Security Planning*. International Centre for Parliamentary Studies. 23rd – 25th November. On-line

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" (Drs. R. Sanders and M. Benedetti)

International research stays

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

2013-2016. Natural Resource Ecology Lab. Research (Fort Collins, Colorado, USA) stay with Dr. John Moore and Dr. Diana Wall as a Marie-Curie IOF fellow working on effects of livestock management and drought on soil food webs in the Great Plains (Colorado, USA)

1995 (August-October). Cuban Academy of Sciences. Institute of Ecology and Systematics. La Habana (Cuba). Diagnose of the soil quality of the Cuban grazelands. French Cuban cooperation. Cuban Academy of Sciences / CNRS cooperation agreement. Guest scientist.

1987-1990. Laboratoire Arago. CNRS. Banyuls-sur-Mer. France. Pre-doc period with Dr. F. Athias-Binche.

PRESENT POSITION

Senior Researcher (Staff member) Center for Ecological Research and Forest Applications (CREAF) Barcelona, Spain since 1989. <https://www.creaf.cat/>

PREVIOUS JOBS

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

2002-2018 *Research affiliate* at the Institute for Environmental Sciences and Technology (ICTA) at the Universitat Autònoma de Barcelona. Barcelona, Spain

2002-2006 *Member of the Board of Directors* of the Institute for Environmental Sciences and Technology (ICTA). 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)

OTHER PROFESSIONAL ACTIVITIES

Expert evaluation

2023-2025. Expert of the European Commission for the monitoring of a competitive research project under the Horizon 2020 program “SOCIETAL CHALLENGES - Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy”

2023 and 2025. Member of the Expert Panel evaluating the “[SONATA](#)” call in the [Life Sciences NZ9](#) Panel (Fundamentals of applied life sciences and biotechnology) of the National Science Centre, Poland (NCN).

2009-2014. Scientific Evaluator of Research and Development Projects for the *Autònoma Solidària Foundation*, Universitat Autònoma de Barcelona (Barcelona, Spain)

2007. Expert for the evaluation of the IV Call for Research Grants in Ecology and Conservation Biology (2006). BBVA Foundation.

From 2001 to the present. Scientific Evaluator for the Spanish National Agency of Evaluation and Prospective (ANEP). State Secretariat on Scientific Research, MINECO

Membership of scientific societies and collaboration with working groups

2023-2026. Member of the Catalan Community of Practices (CoP) of the EU LOESS project (<https://loess-project.eu/>)

From 2020 to the present. Active collaborator of EIP-AGRI.

- **2020.** Invited participant to the workshop *Shaping the EU mission ‘Caring for soil is caring for life’* (October 20-21 on-line) (<https://ec.europa.eu/eip/agriculture/en/event/eip-agri-workshop-shaping-eu-mission-soil>)
- **2021.** Invited participant to the Seminar on *Healthy soils for Europe: sustainable management through knowledge and practice* (April 13, on-line). <https://ec.europa.eu/eip/agriculture/en/event/eip-agri-seminar-healthy-soils-europe-sustainable>
- **2023.** Invited collaborator to the EU CAP Network Workshop 'Enhancing food security under changing weather patterns: farm adaptation. Bologna (Italy), March 14-15. https://eu-cap-network.ec.europa.eu/news-events/events/eu-cap-network-workshop-enhancing-food-security-under-changing-weather-patterns-farm-adaptation-2023-03-14_en

From 2023 to the present. Member of the *Consolidated Research Group* on Biodiversity Conservation Under Global Change (BIOCONS) of the Generalitat de Catalunya.

From 2022 to the present. Chair of SER-IAC, the Iberoamerican and Caribbean Chapter of the SER (Society for Ecological Restoration) <https://www.ser.org/page/Chapters>

From 2021 to the present. Member of the “Nature-Based Solutions” TaskForce 2 on “Integrated Assessment Framework” (<https://networknature.eu/task-force-2-integrated-assessment-framework>) of the EC Network Nature Project (<https://networknature.eu/>)

2021-2022. Chair of the SIACRE (Ibero-American and Caribbean Society for Ecological Restoration) <http://www.siacre.com.co/index.php/es/>

2021 Member of the working group on Soil Biological Analysis GLOSOLAN/NETSOB of the FAO <https://www.fao.org/global-soil-partnership/glosolan/en/>

From 2021 to the present. Member of the Editorial Board of the journal “Agriculture” <https://www.mdpi.com/journal/agriculture>

2019-2020. Member of the Expert working Group on Soil Biodiversity Evaluation for the report on ‘*The state of knowledge on soil biodiversity*’. FAO/CBD.

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>

2018-2019. 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)

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

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.faccejpi.com/>

2017-2021. Vice-chair of the SIACRE (Ibero-American and Caribbean Society for Ecological Restoration) <http://www.siacre.com.co/index.php/es/>

From 2016 to the present. Member of the Europe’s ecosystem research network *ALTER-Net: A Long-Term Biodiversity, Ecosystem and Awareness Research Network*.

From 2015 to the present. Member of the Spanish Society for Terrestrial Ecology <http://www.aect.org/>

2014-2018. Member of the Consolidated Research Group on Ecosystem Biodiversity and Evolution of the Generalitat de Catalunya

From 2014 to the present. Member of the International Soil Carbon Network, ISCN <https://iscn.fluxdata.org/>

From 2013 to the present. Member of the Global Soil Biodiversity Initiative, GSBI <http://www.globalsoilbiodiversity.org/>

2009-2014. Member of the Consolidated Research Group on Soil Protection of the Generalitat de Catalunya

2008-2011. Member of the Spanish Research Network on Agriculture & Development.

Reviewer for journals

- Member of the Editorial board of “Agriculture” since 2022
- Reviewer for *Nature Sustainability* (1 paper, 2025)
- Reviewer for *Science of the Total Environment* (2 papers, 2012-2018)
- Reviewer for *Restoration Ecology* (9 papers, 2007-2017)
- Reviewer for *Journal of Environmental Management* (3 papers, 2017-2020)
- Reviewer for *Frontiers, Geoderma, Insects, Environmental Toxicology and Chemistry, Environmental and Experimental Botany, Ecotoxicology and Environmental Safety* (1-2 papers per journal 2011-2015)

Environmental policy advisor

2025. Andrés, P. Guest speaker at two expert panels of the 2nd Edition of the WEF NEXUS Forum on Multi-Level Cooperation for Resilient Development Implementing the Nexus. (<https://nexus.crtta.ma/en/2nd-edition/>): “Solutions and Innovation” and “Think Tank Panel: Strategic Perspectives for the WEF Nexus”. The Regional Council of Tangier-Tetouan-Al Hoceïma. 5-6 January, Tangier, Morocco.

2025. Andrés P, Doblas-Miranda E, Aguilar JMA, Moinet L et al. How to avoid threats to food production and biodiversity and support positive synergies? CREDIBLE

Experts' report to the EC. Available via <https://zenodo.org/records/15441359>

- 2025. Andrés, P.** Invited facilitator of the debate on “Nature-Based Solutions & Ecosystem Restoration” in the conference on “Mitigating Climate Change, from Fieldwork to Policymaking: The Role of Living Labs” April 24-25, Barcelona, Spain. <https://agroreforest.eu/es/event/reforest-project-is-coorganiser-of-a-conference-on-mitigating-climate-change-from-fieldwork-to-policy-making-the-role-of-living-labs/>
- 2023** Invited author of the document “A deceiving transition from a Soil Health Law to a Directive for Soil Monitoring and Resilience”. Critical Analysis by the European Chapter of the Society for Ecological Restoration (SERE) <https://serchapter2018.wpenginepowered.com/europe/files/2023/11/SERE-Position-on-Soil-Monitoring-Law-final.pdf>

STUDY CONTRACTS

- 2021-2022.** “Agricultural potential in carbon sequestration, and humus content of land used for agriculture and CO₂ storage”. Report to the European Parliament. IP/B/AGRI/IC/2021-052. Coordinator of the drafting team.
- 2021.** A prospective study investigating the impact of intensive grazing and cattle ranching on soil quality, with a particular focus on carbon sequestration, in Menorca (Balearic Islands, Spain). Contract CREAM- ENFOCC Energia Forest i Canvi Climatic. IP of the project.
- 2005-2008.** Ecotoxicological characterisation of compost and other products from cattle manure composting for application to soil. Contract AGROTECH S.A.-CREAF. Coordinator of the working team.
- 2005-2007.** Technical support for using sewage sludge in quarry 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.** A strategic study of the Barcelona mountainside of the Collserola Range. Personal contract P. Andrés- Barcelona Council-Collserola Park Consortium. Member of a wider expert team.
- 2002.** Expert reports on the ecotoxicological assessment of veterinary drugs (Amoxicillin). Laboratorios Serra Pamies S.A. – CREAM. Coordinator of the working team.
- 2001.** Expert report on the environmental impact of the Horta Tunnel. Personal contract P. Andrés-ACESA.
- 2001.** Environmental diagnosis and deployment of the "Espacio Agroforestal de Levante". Contract Sabadell Council - CREAM. Member of the CREAM working team.
- 2000.** A quality evaluation of the restoration of opencast carbon mines at the Natural Site of National Interest, 'Macizo del Pedraforca'. Contract 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 region. Contract Diputació de Barcelona - CEA (UAB). Member of the CEA working team.

1999-2001. Improving 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. Providing technical advice and monitoring the use of sewage sludge in quarry restoration. Contract Junta de Sanjament (Generalitat de Catalunya) - IQS / CREAM. Member of the working team.

1998. Environmental Impact Study of a nautical service harbor and a fishing quay in the Cap de Creus Natural Park (Cala Calders, Alt Empordà Catalonia). Contract Cadaqués Council - Universidad de Barcelona. Responsible for the 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 the impact on terrestrial ecosystems.

1995-1996. Creating 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 the potential environmental consequences of expanding the Tarragona harbour for Salou. Contract Salou Council - Universidad de Barcelona. Responsible for the 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 the environment surveillance plan. Contract ACESA-CREAM. Coordinator of the working team.

1991. Revision of the Tarragona Urban Development Plan. Contract Tarragona Council-CREAM. Coordinator of the working team for planning open areas.

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-CREAF. 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

Participation and direction of competitive research projects

2025-2028. Does nitrogen addition enhance rhizosphere mechanisms that contribute to soil carbon accrual in forests? (NAMASTE). Spanish Ministry of Science, Innovation and Universities. 2024 call “Knowledge Generation Projects and actions for the training of pre-doctoral research staff associated with these projects”. PI: Angela Ribas (CREAF, Barcelona, Spain). Member of the research team.

2023-2027 *Climate Adaptation and Resilience Demonstrated in the MEDiterranean region* (CARDIMED) HORIZON-MISS-2022-CLIMA-01-06. PI: S. Malamis (National Technical University of Athens – NTUA, Greece). At charge of monitoring plans and carbon fluxes and crop yield modeling.

2023-2026. *Building Momentum and Trust to Achieve Credible Soil Carbon Farming in the EU* (CREDIBLE). HORIZON-MISS-2022-SOIL-01-06. PI: T. Bacchetti-De Gregoris (Innova, Spain). Leader of the Focus Group working on “How to improve synergies between C farming, crop yield and biodiversity”.

2023-2027. *REconciling negative and positive impacts of WEEDs in organic tomato crops: effects on soil ecosystem services and plant performance* (REWEEDING). Spanish Ministry of Science and Innovation. 2022 Call for Knowledge Generation Projects. IP: D. Verdaguer & L. Llorens (UdG, Spain). Member of the research team at charge of soil biodiversity studies.

2022- 2025. *Carbon Agriculture* (AgriCarboniCAT). Catalan Government. Climate Fund project. PI: J. Usall (IRTA, Spain). A member of the expert group working on a meta-analysis of the effects of regenerative agriculture on soil carbon and crop yield.

2022-2025. *Regenerative Agriculture in Catalonia* (AgriRegenCAT). Climate Fund project. Catalan Governement. Principal Investigator: J. Usall (IRTA, Spain). At charge of a technical report on the state of Regenerative Agriculture in Spain with emphasis in Catalonia.

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. PI: **P. Andrés** (CREAF, Spain).

2019-2022. *PRoMoting the Governance of Regional Ecosystem ServiceS* (PROGRESS). INTERREG Europe project. PI: Besnik Mehmeti (National Association of Italian Municipalities Tuscany, Italy Tuscany). Researcher at the project as a member of the

CREAF team.

- 2018-2023.** *Large-scale demonstrators on nature-based solutions for hydro meteorological risk reduction. PHUSICOS – 'According to Nature'.* H2020-SC5-2016-2017 call (Greening the Economy). PI: Amy Owen (MGI, Norway). 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.
- 2013-2016.** *Matching soil biodiversity with global biogeochemical cycles.* European Commission. PEOPLE program. Marie Curie (IOF). Experienced Researchers Modality (FP7-PEOPLE-2012- EC Horizon 2020 Program. IOF, PIOF-GA-2012-326361). PIs: D. H. Wall (Colorado State University), **P. Andrés** (CREAF, Spain).
- 2013-2015.** *Effect of biochar on carbon sequestration and belowground biodiversity in Mediterranean soils.* Spanish Ministry of Economy and Competitiveness. AGL2012-40037-C02-01. PI: J.M. Alcañiz (CREAF, Spain). Member of the research team.
- 2009-2012.** *Pyrogenic organic matter as a source of stable carbon in soil and its relationship with environmental toxicity.* Spanish Ministry of Science and Innovation. AGL200912343. PI: **P. Andrés** (CREAF, Spain).
- 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. PI: J.M. Espelta (CREAF, Spain). Member of the research team.
- 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. PI: **P. Andrés** (CREAF/ICTA, Spain)
- 2007-2009.** *Ecotoxicity, mycotoxins and nonylphenol degradation in sewage sludge and sludge amended soils.* Ministry of Economy and Competitiveness. CTM2006-14163-C0201/TECNO. PI: **P. Andrés** (CREAF, Spain)
- 2006-2007.** *European ring test for ecotoxicological characterisation 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 Wastewater Management. PI of the CREAM research team, **P. Andrés** (CREAF, Spain)
- 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). PI of the CREAM research team: **P. Andrés** (CREAF, Spain)
- 2005-2007.** *Integrated Action on Mediterranean Soil Ecotoxicology.* CREAM - Instituto do Ambiente e Vida (Universidade de Coimbra, Portugal). Ministry of Education and

Science. PI: **P. Andrés** (CREAF, Spain)

2005-2010. *Social multi-criteria evaluation for decision-making in the restoration and sustainable management of the agricultural systems of the Miraflor-Moropotente Protected Landscape (Nicaragua).* Project funded by the Catalan Agency for Development Cooperation in three competitive calls: Phase I (2005-2006): GAP/161/2006. U20040; Phase II (2007-2008): U2006O. PRE/2555/2006; Phase III: (2009-2010). PI: **P. Andrés** (CREAF/ICTA, Spain)

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

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

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. PI: **P. Andrés** (CREAF, Spain)

2002-2005. *Evaluation of the ecotoxicological risk of sewage sludge and pig slurry.* Spanish Ministry of Science and Technology – FEDER. AGL2002-0329. PI: J.M. Alcañiz (CREAF, Spain). Member of the research team.

2000-2001. *Retrospective environmental evaluation of restorative actions in opencast mines in Catalonia focusing on soil biological activity.* Spanish Ministry of Education and Culture. CICYTFEDER. 2FD97-1644-C03-03. PI: J.M. Alcañiz (CREAF, Spain). Member of the research team.

1999-2002. *The use of sewage sludge and its derived products (such as composted and thermally dried sludge) for the restoration of degraded land.* CIRIT-MMAGC. PI: L. Comellas (IQS, Spain). Member of the research team.

1995-1997. *Effect of high doses of sewage sludge on the restoration of degraded quarry soil.* CICYT. AMB95-0728. PI: J.M. Alcañiz (CREAF, Spain). Member of the research team.

Supervision of postgraduate research projects

2025, in process. *Runoff erosion reduction using conservation agriculture practices as Nature Based Solutions in sandy tropical soils in the Democratic Republic of Congo.* PhD Thesis. PhD Program in Terrestrial Ecology 1595 - Canvi Global 2024/2025. Autonomous University of Barcelona. Student: Arabela Vega Aguilar. Co-advisors: P. Andrés & Carles Raimat Quintana.

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

- 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 principles to practice*). PhD Thesis. Autonomous University of Barcelona. Student: José Ignacio Barrera Cataño.
- 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 Balmora Amaya.
- 2005.** *Evaluación de los recursos medicinales en el Área Protegida de Miraflores, Estelí, Nicaragua (Evaluation of medicinal resources in the Miraflores 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 Miraflores y Tisey-La Estanzuela, Estelí (Evaluation of Nicaraguan management tools: the case of Miraflores 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.

PUBLICATION

Books and book chapters

Andrés P (2025). El suelo: un viaje conceptual desde lo agronómico hacia lo ecosistémico (pp. 162-166); Restauración de suelos agrícolas mediterráneos en explotación por manejo regenerativo (pp. 628-630) In: Mola, I. (Ed.) Restauración Ecológica: ejemplos de bases técnicas y soluciones prácticas. Fundación Biodiversidad del Ministerio para la Transición Ecológica y Reto Demográfico. Madrid. ISBN: 978-84-931561-1-4

Andrés P, Doblas-Miranda E, Rovira P, Bonmatí A, Ribas À, Mattana S, Romanyà J (2022) Research for AGRI Committee – *Agricultural potential in carbon sequestration- Humus content of land used for agriculture and CO₂ storage*. European Parliament, Policy Department for Structural and Cohesion Policies, Brussels.

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.

FAO (2024). *Protocol for the assessment of sustainable soil management – Indicators and implementation manual*. Rome. Member of the reviewers' team.

FAO, ITPS, GSBI, SCBD and EC (2020). *State of knowledge of soil biodiversity - Status, challenges and potentialities, Report 2020*. Rome, FAO. Contributing author for chapters 4 (*Threats to soil biodiversity - global and regional trends*) and 5 (*Responses and opportunities*)

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 (2008) *Introducción a la cartografía*. In: Andrés P & Rodriguez 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, Rodríguez R (eds.) (2008). *Evaluación y prevención de riesgos ambientales en Centroamérica*. ISBN: Documenta Universitaria. Girona, Spain. 412 pp. ISBN: 978-8496742-37-6. <https://doi.org/10.4060/cb1928en>.

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) *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 (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

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Andrés P (2022) *Knowledge co-construction in an uncertain world. Lessons learned from landscapes in crisis*. Invited talk to the EIP-AGRI brokerage event “Get involved in the EU Mission: A Soil Deal for Europe” Brussels (Belgium) 8-9 June 2022

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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. 1st Meeting of the Iberian Ecological Society & XIV AEET Meeting “Ecology: an integrative science in the Anthropocene”. Barcelona (Spain), February 4-7.

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), September 9-13.

Andrés P (2018) *La restauración ecológica frente a la creciente incertidumbre global*. Invited key speaker. IV Congreso Colombiano de Restauración Ecológica; I International Amazonian Symposium on Ecological Restoration. Florencia (Colombia). July 30 – August 3.

Andrés P (2017) *Sport and Nature Conservation: friends or foes?* Plenary talk to the 4th Nature & Sports Euromeet. La Seu d’Urgell, Lleida (Spain). September 26-29

Andrés P (2017) *Post-restoration indicators of belowground communities’ structure and functionality: A 20-year journey across soil biodiversity*. Oral presentation. SER 7th World Conference on Ecological Restoration. Linking Science and Practice for a Better World. Iguassu (Brazil). August 27 - September 1.

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 présentation. 41^{èmes} Journées Scientifiques du GFHN. GFHN/ECCOREV/IMBE. Observatoire de Haute-Provence, St Michel l’Observatoire (France). January 23-25.

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

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Andrés P, Rosell-Melé A, Colomer F, Alcañiz JM, Denef 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. Prague, (Czech Republic), November 29th to December 3rd.

Andrés P, Moore JC, Simpson RT, Selby G, Cotrufo F, Denef 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 (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 (Barcelona, Spain). December 14-15

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

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". CREA/Generalitat de Catalunya/Universidad Autónoma de Barcelona. Barcelona (Spain), March 13-15.

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) *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) *¿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.

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 (Spain), September 3-6.

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- 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.
- 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.
- 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.
- 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.
- Andrés P**, Ortiz O (2011) *Soil restoration with urban wastes to improve soil environmental services*. Oral presentation. SER 4th World Conference on Ecological Restoration. Mérida (México). August 21th-25th
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- 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 19th Annual Meeting: Protecting ecosystem health: facing the challenge of a globally changing environment. Göteborg (Sweden), May 31- June 4.
- Andrés P**, Mateos E, Domene, X (2009) *Evaluación integrada de la calidad de suelos*

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- 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 (Spain), February 6-9.
- 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 (Spain), October 5-14.
- Andrés P** (2008) *Llueve 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** (2008) *Investigación para el Desarrollo en América Latina*. Oral presentation. Jornadas de Cooperación de la UAB. Fundación Autònoma Solidaria (UAB), Cerdanyola del Vallès, Barcelona (Spain). April 17.
- Ravera F, Tarrason D, Urrutia J, **Andrés P** (2007) *Understanding the agro-silvopastoral socio-ecological system of Mesas de Moropotente Reserve (Nicaragua). A participatory process of knowledge co-construction for sustainability evaluation and local governance*. Poster. Integrating Natural and Social Sciences for Sustainability. 7th International Conference of the European Society for Ecological Economics. Leipzig, (Germany), June 5-8.
- 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 (Spain), October 16-17.
- 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. 17th Annual Meeting of SETAC Europe. Porto (Portugal), May 20-24.
- Domene X, Alcañiz JM, **Andrés P** (2007) *Suitability of solid phase and eluate tests for the ecotoxicological risk assessment of organic wastes*. Poster. 17th Annual Meeting of SETAC Europe. Porto (Portugal), May 20-24.
- 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 (Spain), December 13-14.
- 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 (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) *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.

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. 16th Annual Meeting of SETAC Europe. The Hague (The Netherlands), May 7-11.

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. 16th Annual Meeting of SETAC Europe. The Hague (The Netherlands), May 7-11.

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 (Spain), March 3.

Domene X, **Andrés P** (2005) *A sewage sludge toxicity evaluation method with the collembolan Folsomia candida*. Oral presentation. 15th Annual Meeting of SETAC Europe. Lille (France), May 22-26.

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. 15th Annual Meeting of SETAC Europe. Lille (France), May 22-26.

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”. CREAM, Cerdanyola del Vallès (Barcelona, Spain).

ORGANIZATIONAL ACTIVITIES

2025. Member of the Organizing Committee and Scientific Committee of the *I Congreso Mexicano y VII Congreso Iberoamericano y del Caribe de Restauración Ecológica*. <https://congresorestauracion2025.com/inicio/>. October 26-30. Linares, Nuevo León (México).

2025. Chair of the session “Unlocking the Potential of Soil Biodiversity: Sustainable Land

- Management, Restoration, and Revenue Generation” in the 2025 European Carbon Farming Summit (<https://www.carbonfarmingsummit.eu/>). March 4-6, Dublin (Ireland).
- 2023.** Chair of the *III Symposium of the Working Group on Soil-Plant Interactions of the Spanish Society of Terrestrial Ecology (AEET)* (<http://plansoil.creaf.cat>). University of Barcelona, June 6-7. Barcelona (Spain).
- 2023.** Member of the Scientific Committee of the *VI Iberoamerican and Caribbean Conference on Ecological Restoration* (<https://chapter.ser.org/ser-iac/conferencias-y-simposios/>). June 16-16 Bogotá (Colombia).
- 2021.** Chair of the Symposium on “*Soil restoration strategies under Mediterranean conditions: from farming to engineering*” 12th SERE Conference 7th-10 September. On-line.
- 2018.** Member of the Scientific Committee of the *IV Congreso Colombiano de Restauración Ecológica*; I International Amazonic Symposium on Ecological Restoration. July 30 – August 3. Florencia (Colombia).
- 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”. 9-13 September. Reykjavik (Iceland).
- 2018.** Chair of the 43^{èmes} *Journées scientifiques GFHN*. Dégradation 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. November 19-21. IEC, Barcelona (Spain).
- 2017.** Member of the Scientific Committee of the SER 7th World Conference on Ecological Restoration. *Linking Science and Practice for a Better World*. August 27 - September 1. Iguassu (Brazil).
- 2017.** Chair of the seminar on “*Biological tools in soil restoration*”. SER 7th World Conference on Ecological Restoration. *Linking Science and Practice for a Better World*. August 27 - September 1. Iguassu (Brazil).
- 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*). November 22. Barcelona (Spain).
- 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). July 29-31. Santafé de Bogotá. (Colombia).
- 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. March 13-15. Barcelona (Spain).

- 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. March 15-17. Barcelona (Spain).
- 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. October 17-18. Madrid (Spain).
- 2007.** Member of the Scientific Committee of the International Meeting “*Soil and Wetland Ecotoxicology*”. UAB/UdG/UB/CREAF/IEC. November 26-27. Barcelona (Spain).
- 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 Mirafior-Moropotente Protected Area Nicaragua* UAB/CREAF/UNAN Managua/UAEM/MARENA. October 12-13. Estelí (Nicaragua).
- 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, September 8. Querétaro (Mexico).
- 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.** Co-coordinator (with T. Barahona, Nitlapan, Nicaragua) of the *Workshop on Ecotourism in Nicaragua*. CREAM (Barcelona)/ NITLAPAN (Nicaragua). 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 January-March. Barcelona (Spain).
- 1996-2005.** Co-organizer of the 1st to 10th editions of the *Aula de Ecología de la Ciudad de Barcelona*. Barcelona Council / UAB/CREAF (other co-organizers: J. Terradas and A. Ávila). Barcelona, Spain.

POST GRADUATE TEACHING

- 2021 and 2023.** Post-graduate course on “Soil restoration in post-mining landscapes”. Responsible for the module on *Soil biodiversity and its potential for soil conservation and restoration*. University of Barcelona, Faculty of Biology. First Edition: May 31 - July 29 (2021); Second Edition: January 20 - February 17.

- 2013.** Master's Program in Environmental Management and Restoration. Universidad de Alicante. Invited lecturer in the section *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 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/ CREA/ Universidad Politécnica de Cataluña. Invited lecturer. Santafé de Bogotá. Colombia.
- 2003.** Workshop on *Land-use planning in Nicaragua*. CREA (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 Landuse 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 Politécnica de Cataluña. 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 Politécnica de Cataluña. Lecturer in *Environmental Impact Assessment*. Barcelona, Spain.

OUTREACH & TRAINING OF ENVIRONMENTAL MANAGERS

2024. Participant in the round table about “New/Old solutions for sustainable food”. Working day on Food Sovereignty organized by the UAB, Sea Peoples, Inspira Gsstronomía, EmpowerUs, Roses Council, and Cap de Creus Natural Park. Gastronomic Classroom. Roses. October 26, 2024.

2024. “Agricultura de carbono, biodiversidad y seguridad alimentaria” (*C agriculture, biodiversity and Food Security*) Invited presentation to BCNspiracy 2024. Museo de la Ciencia, Barcelona, November 16. https://cosmocaixa.org/es/p/bcnspiracy-2024_a168984032

2023 “The future of the “Serralada Litoral” forests depend on soil conservation: Challenges and Opportunities” (“*El futur del bosc a la Serralada Litoral depèn del sòl: Vulnerabilitat i oportunitats*”). Casa Capell, Espai per a la sostenibilitat - Ajuntament de Mataró. December 14.

2023 “AgriRegenCat and AgriCarbonCat projects”. Invited talk in the Workshop “Regenerative Agriculture: concept, opportunities and referents” (“*Agricultura regenerativa: concepte, oportunitats i referents*”). Diputació de Tarragona/Consell Comarcal del Priorat, Falset, November 20.

- 2023** “Soil Biodiversity: the life machine under our feet”. Invited master class in the IV Edition of the online course of “La uni Climàtica” about Biodiversity. July 3-7.
(<https://kiosco.lamarea.com/producto/la-uni-climatica-2023-iv-edicion/>)
- 2023** “The soil-plant system: concepts and application to soil restoration” Invited talk in a designed seminar to the technical staff of “Naturalea” (<https://naturalea.eu/en/>) Castellar del Vallès, Barcelona, Spain. May 09.
- 2022** “*Regenerative viticulture: living soils for climate mitigation and wine production*”. Invited contribution to the on-line webinar on “Regeneration and Conservation of Viticultural Soils”. Wine Technological Platform & Interprofesional de Vino España & Agrobank. March 29.
- 2021**. Seminar series “Towards a fair and sustainable food system”. Invited speaker to the session “*Protecting the soil: the great challenge for agriculture*”. The Green European Foundation. Project GEF-21-10. On-line event, September 21.
<https://youtu.be/6kE81uRiRz8>
- 2021**. *Soil Biodiversity services in Agriculture*. Invited speaker to the 1st symposium in Regenerative Viticulture. Regenerative Viticulture Association. Vniseum. Vilafranca del Penedès. (Barcelona, Spain). July 17. Video available from <https://www.viticulturaregenerativa.org/en/conferences> and <https://youtu.be/QQ8I-TZTrfs>
- 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.
- 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 CO₂: natural climate solutions*”. College of Civil Engineers, Barcelona. February 20.
- 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.
- 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.
- 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
- 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.

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. Colet Museum, Barcelona, September 18.

2017. *Soil biodiversity and agricultural practices*. Invited talk to members of the “Llavors Orientals” agricultural association. Cardedeu, Barcelona. June 18.

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.

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.

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.

CITIZEN SCIENCE

2017- 2020. 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)