



## CURRICULUM VITAE (CVA)

### Part A. PERSONAL INFORMATION

CV date	Nov. 2021
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First name	Ametzaga		
Family name	Ibone		
Gender	Female	Birth date(dd/mm/yyyy)	16/01/1963
ID number	16034271M		
e-mail	Ibone.ametzaga@ehu.eus	<a href="http://www.montsevilla.org">URL Web: http://www.montsevilla.org</a> <a href="https://scholar.google.com/citations?user=HTWItgUAAAAJ&amp;hl=es">https://scholar.google.com/citations?user=HTWItgUAAAAJ&amp;hl=es</a>	
Open Researcher and Contributor ID (ORCID) (*)	<a href="https://orcid.org/0000-0003-0683-1190">0000-0003-0683-1190</a>		

#### A.1. Current position

Position	Agregated professor		
Initial date	2011		
Institution	Univeristy of the Basque Country UPV/EHU)		
Department/Center	Plant Biology and Ecology	Faculty of Science and Technology	
Country	Spain	Teleph. number	946012571/607408193
Key words	Forest ecology, biodiversity, landscape, mountain pastures, soil ecology, restoration, ecosystems and landscape management, and ecosystems services		

#### A.2. Previous positions (research activity interruptions, art. 14.2.b)

Period	Position/Institution/Country/Interruption cause
2008-2011	<b>Lecturer</b> in Ecology, Dept. Plant Biology and Ecology. UPV/EHU
2006-2008	<b>Vice-minister of Universities and Research</b> at the Basque Government
2005	<b>Secretary of the Campus of Bizkaia (UPV/EHU) (6 months)</b>
2003-2006	<b>Lecturer</b> in Ecology, Dept. Plant Biology and Ecology. UPV/EHU
2003	<b>Technician in NEIKER (partial) and Associate Professor (partial)</b> in Ecology, Dept. Plant Biology and Ecology. UPV/EHU.
2002-2002	<b>Technician in NEIKER</b>
2001	<b>Fellowship, (3 montsh) University of Oxford.</b>
2000-2001	<b>Associate Professor</b> in Ecology, Dept. Plant Biology and Ecology. UPV/EHU.
1999-2000	<b>Lecturer</b> in Ecology, Detp. Biología animal y Ecoloxía, University of Vigo
1999	<b>Associate Professor</b> in Ecology (1month), Dept. Plant Biology and Ecology. UPV/EHU
1997-1999	<b>Assistant Professor</b> in the Detp. Medio Natural, Public University of Navarra.



1997	<b>Researcher contract</b> in Ecology, Dept. Plant Biology and Ecology, UPV/EHU.
1996-1997	<b>Invited Professor</b> at the University of Vigo, Dept. Biología animal y Ecología. <b>(4 meses)</b>
1996	<b>Associate Professor</b> in Ecology (4hours), Dept. Plant Biology and Ecology. UPV/EHU.
1995-1996	<b>Postdoctoral scholarship (UPV/EHU)</b>
1992-1994	<b>Researcher contract</b> in Ecology, Dept. Plant Biology and Ecology, UPV/EHU.

### A.3. Education

B.S. Biology	University of the Basque Country	1986
MSc	Imperial College of Science and Technology (UK)	1987
PhD. Biology	Imperial College of Science and Technology (UK)	1993
Postdoctorate	University of the Basque Country	1992-1996

### Part B. CV SUMMARY (max. 5000 characters, including spaces)

As a PhD student at Imperial College of Science and Technology I started to be interested on forest ecology and specially on Pest and I did the first studies on *Tomicus piniperda* L. on *Pinus radiata* in the Iberian Peninsula. Later as a postdoc in the University of the Basque County, I continued with forest ecology, specially the effect of *P. radiata* plantations on the field-layer species, water cycle and nutrient cycling. Moreover, I continued researching on other ecosystems such as rivers, saltmarshes and mountain pastures. Reaching to the actual situation where we are mainly working on landscape and urban ecosystem management in order to improve the biodiversity and ecosystem services.

Our main recent contributions are in the following research areas:

**Forest management.** We have worked on the effect of conifer plantations on the nutrient cycle, flora and seedbank of native vegetation showing the negative effect to local biodiversity and now we are more concentrated on eucalyptus plantations, as these plantations are increasing very rapidly specially in Bizkaia, and there is a growing social concern about it. biodiversity (plants, birds, mesofauna and soil microbiota). Up to now, we have shown the effect of eucalyptus (an invasive species) on the biodiversity of plants, birds and soil mesofauna, in comparison to native vegetation, and soon we will have data on soil microbiota. These data hopefully will help to start a moratorium on these plantations in Bizkaia, and to improve the landscape management.

**Landscape management.** We have applied the Millennium Ecosystem methodology to the Basque Country and making the ecosystem services maps to the Basque Government. We have identified the trade-offs among ecosystem services in the landscape related to landcover/use and advised the sites to protect or improve their management. We have designed an indicator based on ecosystem management that can help to really “value” agricultural land, that usually municipal planners try to convert to urban-sites in order rise its “value”. Moreover, the work has helped to include the concept on ecosystem services on the revision of the Landscape management directive (*Directrices de Ordenación del Territorio*) and, nowadays this methodology is starting to be applied on compensation areas in road projects in Bizkaia. Moreover, our work has helped to protect mixed forest on the Biosphere Reserve of Urdaibai based on the ecosystem services they provide.

**Urban ecosystems.** Applying ecosystem services’ methodology we are working at urban level to detect the sites more vulnerable to climate change effects in order to try to improve those areas to mitigate its effect on local inhabitants. Moreover, we have designed an indicator that shows the areas at municipal level where there is a higher demand of ecosystem services and where there is a low provision of them in order to improve municipal planning.



Our research on ecosystem services and biodiversity makes us to be in the media, mainly in relation to the actual environmental problems: pest in plantations, urban ecosystems, landscape management and so on. On the other hand, we are in close contact with the local institutions: townhalls, County Councils and Basque Government in order to advise them in environmental management.

## Part C. RELEVANT MERITS (sorted by typology)

### C.1. Ten recent selected publications

- RODRÍGUEZ-LOINAZ G., I. AMEZAGA & M. ONAINDIA. 2013. Use of native species to improve carbon sequestration and contribute towards solving the environmental problems of the timberlands in Biscay, northern Spain. *Journal of Environmental Management* 120: 18-26.
- ONAINDIA, M., AMETZAGA-ARREGI, I., SAN SEBASTIÁN, M., MITXELENA, A., RODRÍGUEZ-LOINAZ, G., PEÑA, L., ALDAY, J.G. 2013. Can understory native woodland plant species regenerate under exotic pine plantations using natural succession? *Forest Ecology and Management* 308: 136-144.
- PALACIOS-AGUNDEZ I, FERNÁNDEZ DE MANUEL B, RODRÍGUEZ-LOINAZ G, PEÑA L, AMETZAGA-ARREGI I, ALDAY JG, CASADO-ARZUAGA I, MADARIAGA I, ARANA X, ONAINDIA O. 2014. Integrating stakeholders' demands and scientific knowledge for the inclusion of ecosystem services in landscape planning. *Landscape ecology* 29: 1423-1433.
- JOSU G. ALDAY, ELENE ETXEBERRIA e IBONE AMETZAGA-ARREGI 2017. Conversion of *Pinus radiata* plantations to native forest after harvest operations: a north Iberian Peninsula case study. *European Journal of Forest Research* DOI 10.1007/s10342-017-1017-2.
- GLORIA RODRÍGUEZ-LOINAZ, LORENA PEÑ, IGONE PALACIOS-AGUNDEZ, IBONE AMETZAGA-ARREGI, MIREN ONAINDIA 2018. Identifying Green Infrastructure as a Basis for an Incentive Mechanism at the Municipality Level in Biscay (Basque Country). *Forests* 9; 22 doi 10.3390/f9010022
- ONAINDIA, M., PEÑA, L., FERNÁNDEZ DE MANUEL, B., RODRÍGUEZ-LOINAZ, G., MADARIAGA, I., PALACIOS-AGUNDEZ, I., AMETZAGA-ARREGI, I. 2018. Land use efficiency through analysis of agrological capacity and ecosystem services in an industrialized region (Biscay, Spain). *Land Use Policy* 78: 650-661.
- PEÑA, L., ONAINDIA, M., FERNÁNDEZ DE MANUEL, B., AMETZAGA-ARREGI, I., CASADO-ARZUAGA, I. 2018. Analysing the Synergies and Trade-offs between Ecosystem Services to Reorient Land Use Planning in Metropolitan Bilbao (Northern Spain). *Sustainability*, 10: 4376; DOI: 10.3390/su10124376.
- SPYRA, M., KLEEMANN, J., IPEK CETIN, N., VÁZQUEZ NAVARRETE, C.J., ALBERT, C, PALACIOS-AGUNDEZ, I., AMETZAGA-ARREGI, I., LA ROSA, D., ROZAS, VÁSQUEZ, D., ADEM ESMAIL, B., PICCHI, P., GENELETTI, D., KÖNIG, H.J., KOO, H., KOPPEROINEN, L., FÜRST, C. 2019. The ecosystem services concept: a new Esperanto to facilitate participatory planning processes? *Landscape Ecology*. 34 (7): 1715-1735. DOI 10.1007/s10980-018-0745-6.
- PEÑA, L., FERNÁNDEZ DE MANUEL, B., MÉNDEZ, L., VIOTA, M., AMETZAGA-ARREGI, I., ONAINDIA, M., 2020. Co-creation of knowledge for ecosystem services approach to spatial planning in the Basque Country. *Sustainability* 12 (13), 5287; doi:10.3390/ su12135287.
- URKIJO-LETONA, A., S. CÁRCAMO, L. PEÑA, B. FERNÁNDEZ DE MANUEL, MIREN ONAINDIA AND IBONE AMETZAGA-ARREGI. 2020. Key Elements of the White-Backed Woodpecker's (*Dendrocopos leucotos lilfordi*) Habitat in Its European South-Western Limits. *Forest*. 831; doi:10.3390/f11080831.
- FERNANDEZ DE MANUEL; L. MÉNDEZ-FERNÁNDEZ, L. PEÑA, I. AMETZAGA-ARREGI. 2021. A new indicator of the effectiveness of urban green infrastructure based on ecosystem services assessment. *Basic and Applied Ecology* 53 (2021). ISSN: 1439-1791.

### C.2. Selected recent invited presentations to international conferences

2015. *IWOBI 2015 International Work Conference on Bioinspired Intelligence (IWOBI)* (Donostia, Gipuzkoa).
2015. *EGU General Assembly, Copernicus Meetings* in Viena.
2017. *IUFRO 8.01.02 Landscape Ecology Conference*, 24-29 September Halle Germany



2018. ESP congress, Europe 2018 Regional Conference: Ecosystem services in a changing world: moving to theory to practice.

### C.3. Recent participation in Research, Development and Innovation Projects

2018-2021. Citizen Science for Education for Sustainable Development. Reference number: 2018-1-UK01-KA201-048161. IP **I. Ametzaga** (2020-2021)

2019-2023. Improving regional policies to better protect natural heritage of peri-urban open spaces. IP in the Basque Country **I. Ametzaga**.

2020-2023. Development of urban green infrastructure and improvement of ecosystem services for adaptation to climate change of Salamanca City Heritage. LIFE VIA DE LA PLATA SALAMANCA. PI in Ecosystems services: **I. Ametzaga**.

### C.4. Recent contracts

2021-2023. Ecosystems services in the Basque Country. Contract with the Basque Government. PI: **I. Ametzaga-Arregi**

2021. Economic valuation of ecosystem services in Natura 2000 in Araba. County Council of Araba. PI: **I. Ametzaga-Arregi**

2021. Ecosystems services in the Igeldo southside in Donostia-San Sebastian. Contract Cristina Enea Foundation. PI: **I. Ametzaga-Arregi**

2020. Scientific basis for the design of the Green Infrastructure in Bizkaia. Contract County Council of Bizkaia. PI: **I. Ametzaga-Arregi**

2020. Ten-year report for the scientific council of the Mab Program of the Urdaibai Biosphere Reserve. Contract EUROMAB. PI: **I. Ametzaga-Arregi**

### C.5. Recent institutional service

2020-present. Coordinator of the UNESCO Chair of Sustainable Development and Environmental Education of the University of the Basque Country.

### C.6. Recent international service

### C.7. Editorial service

Editora del MONOGRAFICO: Interfaz ciencia-gestión-sociedad en el ámbito de la conservación: avances conceptuales y metodológicos. Ecosistemas 29 (1): 1-3 [Enero-Abril 2020] junto con M.D. López-Rodríguez, **I. Ametzaga-Arregi**, M. Viota, J. Cabello 2020. Doi.: 10.7818/ECOS.1965

### C.8. Recent organization of international meetings and conferences

2020 Organization of the XII<sup>th</sup> ECOFLOR Meeting in Bilbao.

2019. Organization of the *I International congress: building bridges between science and management in the Biosphere Reserves*. Urdaibai (Busturia, Bizkaia).

2017. Organization of the IUFRO 8.01.02 Landscape Ecology Conference, 24-29 September Halle Germany

### C.9. Recent proposal evaluation and committees

Member of the Quarry Life Award 2022.