



**Women, Water and Climate Emergency:
Art and Science hand in hand to approach ecofeminism to
society**

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Complete List of Authors:	Pastor, Ada; University of Girona, Institute of Aquatic Ecology; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Mendoza Lera, Clara; University of Koblenz-Landau Faculty 7 Natural and Environmental Sciences, Environmental Physics; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Agell, Gemma; CSIC-CEAB Anton-Pardo, Maria; Univ Valencia; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Bartrons, Mireia; Universitat de Vic - Universitat Central de Catalunya, Biosciences; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Bernal, Susana; CEAB-CSIC, Continental Ecology; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Cañedo-Argüelles, Miguel; IDAEA, Goesciences; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Cussó, Roser; Freelance illustrator Catalan, Núria; CEAB-CSIC, Resources and Ecosystems; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Carrau, Laura; Film maker, Mileva Films https://milevafilms.com/en/ Feio, M. J.; Marine and Environmental Sciences Centre, ARNET, University of Coimbra, Department of Life Sciences; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Džinović, Mak; Freelance animator Fernandes, Isabel; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Franco-Cisterna, Belén; Netherlands Institute of Ecology, Aquatic Ecology; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Freixa, Anna; Catalan Institute of Investigation of Water, Resources and ecosystems; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Genua-Olmedo, Ana; Tragsatec SA SME MP; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Hernández del Amo, Elena ; Universitat Autònoma de Barcelona, Departament de Genètica i Microbiologia; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Lecina-Diaz , Judit ; Technical University of Munich, TUM School of Life Sciences, Ecosystem Dynamics and Forest Management Group; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL)

	León-Palmero, Elizabeth; Princeton University, Geosciences; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL), Orrit González, Júlia ; CEAB-CSIC Ordoñez, Jaime ; Universidad de Barcelona Facultad de Biología, Revista Limnetica Departamento de Biología Evolutiva, Ecología y Ciencias Ambientales Pigem, Anna; Freelance graphic designer Poblador, Sílvia ; CREAF; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Rodríguez-Lozano, Pablo; Universidad Autónoma de Madrid, Departamento de Ecología, ; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Romaní, Anna; University of Girona, Department of Environmental Sciences and Institute of Aquatic Ecology Sánchez-Montoya, María Mar; University Complutense of Madrid, Department of Biodiversity, Ecology and Evolution; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Solórzano Ruiz, Ana Elena ; IDAEA, Freshwater Ecology, Hydrology and Management (FEHM); Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Suárez-Alonso, María Luisa; University of Murcia, Department of Ecology and Hydrology; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Valencia-Leguizamón, Juliana ; University of Girona, Group of Continental Aquatic Ecology Research (GRECO), Institute of Aquatic Ecology Vidal-Abarca Gutiérrez, María Rosario; University of Murcia, Department of Ecology and Hydrology; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL) Sala-Bubaré, Anna ; Universitat Ramon Llull, Facultat de Psicologia, Ciències de L'Educació I L'Esport Lupon, Anna; Centre for Advanced Studies of Blanes (CEAB-CSIC), Integrative Freshwater Ecology Group; Grupo Gender&Science, Asociación Ibérica de Limnología (AIL)
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Ada Pastor

Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920, Mislata (Valencia), Spain

Group of Continental Aquatic Ecology Research (GRECO), Institute of Aquatic Ecology, University of Girona, Girona, Spain

ada.pastor@udg.edu

***Clara Mendoza-Lera**

Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920, Mislata (Valencia), Spain

RPTU, iES, Forstr. 7, 76829 - Landau, Germany

*Corresponding author: clara.mendozalera@rptu.de

Gemma Agell

CEAB-CSIC C/ d'accés a la Cala St.Francesc, 14 Blanes – Girona – 17300 (ESPAÑA)

gemma@ceab.csic.es

Maria Anton-Pardo

Cavanilles Institute of Biodiversity and Evolutionary Biology, University of

Valencia, Valencia, Spain

Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920, Mislata (Valencia), Spain

anparma@uv.es

Mireia Bartrons

Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920, Mislata (Valencia), Spain

Biosciences Department, University of Vic - Central University of Catalonia, Carrer de la Laura, 13, 08500, Vic (Barcelona), Spain

mireia.bartrons@uvic.cat

31 Susana Bernal

32 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
33 Mislata (Valencia), Spain

34 CEAB-CSIC C/ d'accés a la Cala St.Francesc, 14 Blanes – Girona – 17300 (ESPAÑA)

35 sbernal@ceab.csic.es

36 Miguel Cañedo-Argüelles

37 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
38 Mislata (Valencia), Spain

39 Freshwater Ecology, Hydrology and Management (FEHM), SHE-2, Institut de Diagnòstic
40 Ambiental i Estudis de l'Aigua (IDAEA), CSIC, Barcelona, Spain

41 mcanedo.fem@gmail.com

42 Roser Cussó

43 Freelance illustrator

44 rsr.cusso@gmail.com

45 Núria Catalán

46 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
47 Mislata (Valencia), Spain

48 CEAB-CSIC C/ d'accés a la Cala St.Francesc, 14 Blanes – Girona – 17300 (ESPAÑA)

49 Laura Carrau

50 Filmmaker, Mileva Films, <https://milevafilms.com/en/>

51 lacarrau@gmail.com

52 Maria João Feio

53 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
54 Mislata (Valencia), Spain

55 Department of Life Sciences, Marine and Environmental Sciences Centre, ARNET,
56 University of Coimbra, Coimbra, Portugal

57 mjf@ci.uc.pt

58 Mak Džinović

59 Freelance animator

60 makdzinovic@gmail.com

61 **Isabel Fernandes**

62 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
63 Mislata (Valencia), Spain

64 isabelrodriguesfernandes@gmail.com

65 **Belén Franco-Cisterna**

66 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
67 Mislata (Valencia), Spain

68 Department of Aquatic Ecology, Netherlands Institute of Ecology (NIOO-KNAW),
69 Droevendaalsesteeg 10, 6708 PB, Wageningen, the Netherlands.

70 B.FrancoCisterna@nioo.knaw.nl

71 **Anna Freixa**

72 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
73 Mislata (Valencia), Spain

74 Catalan Institute for Water Research, (ICRA-CERCA), Carrer Emili Grahit 101, 17003
75 Girona, Spain

76 afreixa@icra.cat

77 **Ana Genua-Olmedo**

78 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
79 Mislata (Valencia), Spain

80 Tragsatec, Madrid, Spain.

81 agenuaolmedo@gmail.com

82 **Elena Hernández del Amo**

83 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
84 Mislata (Valencia), Spain

85 Departament de Genètica i Microbiologia, Universitat Autònoma de Barcelona, Spain.

86 elena.hernandez.delamo@uab.cat

87 **Judit Lecina-Díaz**

88 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
89 Mislata (Valencia), Spain

90 Technical University of Munich, TUM School of Life Sciences, Ecosystem Dynamics and
91 Forest Management Group, Hans-Carl-von-Carlowitz-Platz 2, 85354, Freising, Germany

92 **Elizabeth Leon-Palmero**

93 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
94 Mislata (Valencia), Spain

95 Department of Geosciences, Princeton University, 08544, Princeton, NJ, USA

96 el23@princeton.edu

97 **Carolina Olid**

98 UB-Geomodels Research Institute, Department of Earth and Ocean Dynamics, Universitat
99 de Barcelona, 08028 Barcelona, Spain

100 carolina.olid@ub.edu

101 **Júlia Orrit González**

102 CEAB-CSIC C/ d'accés a la Cala St.Francesc, 14 Blanes – Girona – 17300 (ESPAÑA)

103 julia.orrut.98@gmail.com; proyectoaugmenta@gmail.com

104 **Jaime Ordoñez**

105 *Revista Limnetica*

106 Departamento de Biología Evolutiva, Ecología y Ciencias Ambientales

107 Facultad de Biología, Universidad de Barcelona

108 jaimeordonezs@ub.edu

109 **Anna Pigem**

110 Freelance graphic designer

111 anna@annapigem.com

112 **Sílvia Poblador**

113 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
114 Mislata (Valencia), Spain

115 CREAM, Cerdanyola del Valles, Barcelona 08193, Catalonia, Spain. e-mail:

116 s.poblador@creaf.cat

117 **Pablo Rodríguez-Lozano**

118 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
119 Mislata (Valencia), Spain

- 120 Departamento de Ecología, Universidad Autónoma de Madrid, 28049 Madrid, Spain
121 pablorodriguezlozano@gmail.com
- 122 **Anna M. Romaní**
123 Group of Continental Aquatic Ecology Research (GRECO), Institute of Aquatic Ecology,
124 University of Girona, Girona, Spain
125 anna.romani@udg.edu
- 126 **María Mar Sánchez-Montoya**
127 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
128 Mislata (Valencia), Spain
129 msanch70@ucm.es
- 130 Department of Biodiversity, Ecology and Evolution, University Complutense of Madrid,
131 28040 Madrid, Spain
- 132 **Ana Elena Solórzano Ruiz**
133 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
134 Mislata (Valencia), Spain
135 Freshwater Ecology, Hydrology and Management (FEHM), Institut de Diagnòstic Ambiental i
136 Estudis de l'Aigua (IDAEA), CSIC, Barcelona, Spain ana.solorzano@idaea.csic.es
137 anasolel17@gmail.com
- 138 **María Luisa Suárez-Alonso**
139 Department of Ecology and Hydrology. University of Murcia. Campus Espinardo. 30100
140 Murcia (Spain). mlsuarez@um.es
- 141 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
142 Mislata (Valencia), Spain
- 143 **Juliana Valencia-Leguizamón**
144 Group of Continental Aquatic Ecology Research (GRECO), Institute of Aquatic Ecology,
145 University of Girona, Girona, Spain
- 146 **María Rosario Vidal-Abarca Gutiérrez**
147 Department of Ecology and Hydrology. University of Murcia. Campus Espinardo. 30100
148 Murcia (Spain). charyvag@um.es
- 149 Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
150 Mislata (Valencia), Spain

Anna Sala-Bubaré

Facultat de Psicologia, Ciències de L'Educació i L'Esport, Universitat Ramon Llull, 08022
Blanquerja Císter Barcelona, Spain

annasb4@blanquerna.url.edu

Anna Lupon

Grupo Gender & Science, Asociación Ibérica de Limnología, Calle El Porche, 2, 46920,
Mislata (Valencia), Spain

CEAB-CSIC C/ d'accés a la Cala St.Francesc, 14 Blanes – Girona – 17300 (ESPAÑA)

anna.lupon@gmail.com

The climate emergency and ecological crisis caused by humans is leading to more frequent and extreme heat waves, droughts and floods, together with increasing pollution, which negatively affect ecosystems, people, and infrastructure (IPCC, 2023; Gills and Morgan, 2020). Consequently, freshwater ecosystems like rivers, lakes, and wetlands, have suffered serious declines in water quality, habitat degradation, and damage to their biodiversity, structure, and functioning (IPBES, 2019).

The lack of access to clean water and other essential ecosystem services provided by freshwaters contributes to social inequalities and reinforces gender discrimination (i.e., climate/environmental injustice; Ravera et al. 2016; IPCC, 2022). Women and girls are disproportionately affected by climate change, especially those from indigenous and Afro-descendant communities, older women, LGBTIQ+ individuals, women and girls with disabilities, migrants, and those living in rural, remote, conflict-prone, and disaster-prone areas (Terry, 2009; UN-Women and DESA, 2024). Therefore, climate justice must integrate intersectional gender justice (Guedes et al., 2024). Ecofeminism, as an intersectional political movement, encompasses and articulates both climate and intersectional gender justice providing the conceptual necessary framework to alter climate/environmental injustice (Mallory, 2013).

Teaching ecofeminism adopting its conceptual tenets in education and knowledge dissemination and creation is key for triggering eco-social transformation (Cripss, 2025; Garcia et al., 2025). Collaborative transdisciplinary approaches, such as art-science collaborations, have the potential to trigger eco-social transformation by engaging diverse audiences, evoking emotions through embodied experiences, and inspiring innovative

solutions (Paterson et al. 2020). It is not surprising that arts–science projects often focus on the environment and climate change (Lesen et al. 2024). Rather than merely depicting problems, the arts are increasingly being called upon to define and conceptualize eco-social challenges (Tsing et al. 2024).

With these ideas in mind, we initially formed a transdisciplinary group comprising 22 scientists from the Gender and Science Group of Iberian Society of Limnology (<https://www.genderlimno.org>) and four artists: illustration artist Roser Cussó (<https://www.rosercusso.com/>), filmmaker Laura Carrau (<https://www.lauracarrau.com>, <https://milevafilms.com>), animation artist Mak Džinovic (<https://makdzinovic.com/>) and graphic designer Anna Pigem (<https://www.annapigem.com/>). Together, we developed an art-science educational initiative aimed at mapping how the climate emergency affects freshwater ecosystems and societies from an ecofeminist perspective. We articulated this work around three interrelated projects (stay tune for more!): the exhibition “MUAC - *Augmented Ecofeminisms: Climate, Water, Women*”, the children book “*Eco-children’s book AUMENTADOS - Climate, Water, Women*” and a short movie “*Soc Aigua*” [“I’m Water” in Catalan]. It is worth noting here that while the exhibition talks about women, we use this overarching term to address all groups that are unequally affected by climate emergencies.

Co-creation of the art-science exhibition “MUAC - Augmented Ecofeminisms: Climate, Water, Women”

Through a co-creative process, we translated key ecosocial concepts into eight visual narratives. The result was the exhibition “MUAC - Augmented Ecofeminisms: Climate, Water, Women”, with which we invite the audience to reflect on the interactions between climate change, freshwater ecosystems and ecofeminism. Through a journey that combined augmented reality with scientific, artistic, and audiovisual material, we question the current management of environmental problems related to water, and explore potential futures based on alternative views to current governance.

The exhibition features eight illustrations enhanced with augmented reality animations and videos (Fig. 1), including interviews with female activists involved in the cases presented, such as the laureate Teresa Vicente from Spain or Fatoumata Marong from Gambia. In doing so, we aim to present relatable role models (Catalán et al., 2022). The thread of each panel is a story involving the specific impact to the ecosystem together with the impact to women

and how female scientists and activists have contributed to mitigate it. The first two panels set the conceptual framework for understanding the intersectional eco-gender perspective of the exhibition: climate vulnerability and ecofeminism. The other six, address specific climate emergency topics directly impacting freshwater ecosystems (droughts and floods, salinization, eutrophication, water pollution, biodiversity loss, and water as energy resource) and with dissimilar consequences for different members of human societies.



Figure 1. Left, panel on “Droughts and floods” with a smartphone playing the corresponding augmented animation. Right, visitors at the inauguration of the exhibition MUAC at the University of Girona (Spain).

We inaugurated the exhibition in October 2023 at the University of Girona (Spain). Since then, it has been displayed at 13 universities, 6 research centers, 3 conferences, and presented in various public spaces such as a cafe or an art gallery all over Europe, reaching more than 17,000 views (Artivive statistics, May 2025). It is also permanently displayed at the Ecological Research Station Rees (University of Cologne, Germany) and at the University of Murcia (Spain), as well as online (<https://www.genderlimno.org/muac>). In most cases, the exhibition has been presented on site at a public event led by both members of the artistic and scientific team.

Tailoring the exhibition content for a young audience: “Eco-children’s book AUMENTADOS - Climate, Water, Women” and a short film “Soc Aigua”

We later adapted the content of MUAC (project AUMENTA; www.genderlimno.org/aumenta) into a children's book (currently available in Catalan and Spanish) aimed at children aged 10-12 years: “Ecocuentos aumentados - clima, agua, mujeres” [literal translation “Augmented

eco-stories: climate, water, women”]. This adaptation posed a considerable challenge, as the original exhibition content was complex for a younger audience and addressed multiple dimensions -including environmental issues, eco-social threats, and ecofeminism- often involving start and explicit examples of social and environmental injustices. Rather than simplifying or diluting the content, we opted to preserve its depth and complexity. We found that the evocative power of drawings and storytelling could make these topics accessible, meaningful, and appealing for young audiences. As a result, we created a book featuring eight short, illustrated stories around the exhibition’s themes. Each story concludes with an illustration to be animated through augmented reality and an open-end question for reflection (Fig. 2). The book was first printed in April 2024 in Catalan and Spanish (is currently under translation into Basque, Galician and English), and later presented in 28 schools across Spain. As a companion to the book, and to support educators and families, we developed an educational guide. This resource includes additional content and activities to further explore the themes presented in the stories and deepen understanding. The book and the educational guide are freely available under creative commons license on <https://www.genderlimno.org/aumenta.html>.

Additionally, MUAC and AUMENTA further served as inspiration for a short film by Roser Cussó, supported by all the group, which covers the main themes of the projects. In the film, entitled “Soc Aigua” [literal translation “I’m Water”], the heroine, a drop of water, experiences the journey through ecosystems and women. The film was presented in October 2024 in Girona (Spain) and it has been selected to be showcased in four film festivals (as of May 2025). It is available with English subtitles on <https://www.rosercusso.com/soc-aigua/>.

This initiative exemplifies how collaborative, transdisciplinary efforts can reveal the gendered and emotional dimensions of environmental research and highlights the transformative potential of such partnerships. The evolving life of the exhibition, *MUAC*, together with the children adaptation book and film, continues to foster personal reflection and public dialogue, underlining the role of art-science initiatives in driving eco-social change. For us as authors, this collaborative process has also been a personal journey—one that reshapes our

understanding of our collective practice and its potential to inspire and communicate meaningful change.

Do you want to display at your institution “MUAC - Augmented Ecofeminisms: Climate, Water, Women”? The exhibition is available on our website (<https://www.genderlimno.org/muac.html>) and can also be requested for permanent or temporal display.



Fig. 2. Left, from cover in Spanish of the “Eco-children’s book AUMENTADOS - Climate, Water, Women”. Right, a group of kids enjoying the augmented animation on the chapter about water pollution.

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