CURRICULUM VITAE MANUEL QUIRÓS

INDEX *Updated October 2026*

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1. PERSONAL DATA

Manuel Quirós Galdón. Málaga 1962. Married, two children.
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Mobile: +619 90 15 58

Links to more information:
Biomimicry blog : https://natureinspireus.com/blog/
Biomimicry Consulting : www.natureinspireus.com
Development and Innovation in the Amazon: https://www.natureinspireus.com/pbe-2/
Wild art: www.manuelquiros.com

2. CURRENT PROFESSIONAL SITUATION . 2026

1. Associate Professor at **Instituto de Empresa University** and responsible for various subjects:

· Teacher *Biodiversity & Conservation in Master in International Development* MDI. 3 p.m. 2020-

· Teacher *Biomimicry: innovation inspired by nature* in Master for Sustainability & Business Transformation. 10 a.m. 2023-

· Director and teacher of *Sustainability Lab* Madrid (3 ECTS) of the *Labs & Entrepreneurship program* . Collaborations with companies. 2018-

· Director *Capstone projects Master in International Development* with company . 2019-

2. Professor in the Master's Program in Environment, Sustainability and SDGs. UNESCO Chair, University of the Basque Country. 2020-

3. Professor of Biomimicry at the Faculty of Design and Architecture at the University of Navarra. 2020-

4. Professor of Sustainability in the Executive MBA Master's Program. Esic university . 2026-

5. Professor of Sustainability Management at EWA Duale Europäische Wirtschaftsakademie . Course for the ADE degree. 2026-

3. ACADEMIC TRAINING

1997 Doctor in Biological Sciences ETSIA UPM *CUM LAUDE*
Higher Technical School of Agricultural Engineers of the Polytechnic University of Madrid

1992 Master in Aquaculture Stirling Institute of Aquaculture, Great Britain
Master's thesis at the Institute of Aquaculture in Stirling, Great Britain

1991 I Postgraduate Course in Aquaculture Higher School of Agriculture -Autonomous University of Barcelona .

1989 Bachelor of Science in Biology (Zoology) Complutense University of Madrid

4. RESEARCH FIELDS

2019 - Sustainable ESG Financing: Natural Capital

	Regenerative design
2018 -	New economies, Donut Economics
2016 -	Cooperation in sustainable innovation for development
2010-	Biomimicry
2009 -	Methodological innovation in didactics for higher and school education
2003 -	Sustainable development . Deep ecology
1997-	Aquaculture & conservation of threatened fish species

5. PROFESSIONAL EXPERIENCE

· Co-creator of the *Manigua* program on YouTube , which focuses on disruptive and regenerative themes related to biodiversity in social and economic matters. Season 1, 7 episodes.
[https://natureinspireus.wordpress.com/manigua/]. 2023

· Executive Director of the *DoTank* Climate Consensus Forum affiliated with the Independent Foundation. 2019.

· Founder and promoter of the Planeta Biomimetico Spain Foundation, an international platform for Amazonian Biomimetic Studies . 2016-

· Founder of the Biomimicry RI+3 Network. A platform for disseminating biomimicry worldwide. 2016-

· Co-founder and President of *Greensigns* , a non-profit pro-development association Sustainable in the fields of ecology and design. National Register of Associations No. 597031. 2008-2014

· Co-founder and Treasurer of *Biomimicry Iberian Association* (National Registry No. 603.335) 2013-
www.biomimicryiberia.com 2006-2019

· Contributing editor of the publication *Zygote Quarterly Journal* (Spanish edition) 2013-present
www.zqjournal.org

· Accreditation by the Agency for Quality, Accreditation and Foresight of the Universities of Madrid (ACAP) for the positions of PhD holder at private universities, tenured lecturer, and assistant lecturer. File number 2009/14599/1/0111. Oct 2009

· Author of the blog natureinspireus.wordpress.com about academic biomimicry 2011-present

· Postdoctoral research contract ETIMontes . 2004

· Research and Teaching at the ETSIA of the UPM 1994-1999

· Specialist in areas related to Ichthyology:

- Fish reproduction. Seminars at CUADEX 2001, Cáceres
- Predoctoral researcher at MAFF in studies with sole . 1992, Wales
- Collaborator at a gilthead seabream and European seabass farm, Cupimar , 1991, Cadiz
- Assistant in eel fish farming, 1991, Valenciana de Acuicultura, Valencia

· Artistic activity related to wildlife. 2004-present **www.manuelquiros.com**

6. OTHER PROFESSIONAL ACTIVITIES

- Member of the *Think Tank* international CBID (Center for Biologically Inspired Design) bioinspired.sinet.ca

- Participation in RTVE and C+ on topics of Environmental Conservation and Biomimicry

- Writer of scientific and environmental outreach articles, promoting sustainable development and biomimicry

- Active attendance and participation in national and international scientific conferences

- Guest lecturer in areas related to biomimicry

- Director and creator of the aquaculture magazine Culticomar , the first in Spain in the sector. 1997

7. SCHOLARSHIPS

· Predoctoral grant in Management and conservation of fish species, awarded by merit competition by the General Subdirectorate of Agricultural Research of the Community of Madrid.
Duration 3 years (1994-1997).

8. RESEARCH ACTIVITY PERFORMED (Programs and Positions)

11. · European Project: *Biomimicry for Entrepreneurs* . Project 2015-3TR01-KA205-024900 Leader Turkey Consumer & Environment Education Foundation (Türçev). Participation as a member of the Biomimicry Iberia Association (€27,875/TOTAL €199,385) 2016-2019.

10. · Project 07M/0007/2002 (Ministry of Education): Management strategies for fish species and their habitat for the conservation of the *Chondrostoma frigatefish lemmingii* , endangered in the waters of the Community of Madrid. Postdoctoral contract. 2003. ETSIMontes . UPM

9. CAM (Regional Ministry of the Environment) Project-Agreement for the acclimatization and reproduction of threatened fish species in rivers of the Community of Madrid. Contracted Postdoctoral Researcher. 2002-March 2003. ETSIMontes . UPM

8. · PETRI Project 95-0424-OP: Integrated tench production using the heat from a tobacco drying facility. Postdoctoral researcher contract. 2000-2001. Dept. of Animal Production ETSIAUPM

7. · CAM Project 07B/0013/1999: *In vitro reproduction* of the comiza barb, *Barbus comiza* and the *Rutilus pard Lemmingii* , an endangered species, present in rivers of the Community of Madrid. Dept. of Animal Production, ETSIA. Research team, PhD contract. 2000-2001

6. · CICYT Project C97 0977: Lag production and nutritional determination of tench. Department of Animal Production , ETSIA. Postdoctoral scientific collaborator contract. 1999-2000

5. · CICYT Project 97-0250 01 Controlled production of tench fry. Dept. of Animal Production ETSIA PETRI Contract for scientific collaborator 1998-1999

4. · CDTI Project AGF94-0222 C02 Controlled production of tench fry. Dept. of Animal Production ETSIA. Predoctoral Fellow. 1995-1997

3. INIA Project: Population dynamics and production of brown trout in the center of the Iberian Peninsula. Agricultural Research Service of CAM. Predoctoral Fellow. 1994-1995

2. · Sturgeon Farming Project for Repopulation Purposes. CRIAP Milan. Research Assistant. 1992-1993

1. · Project on size dispersion in common sole fry. British Ministry of Fisheries (MAFF), Wales. Thesis. 1992.

9. STAYS IN FOREIGN RESEARCH CENTERS

· Institute of Aquaculture , University University of Stirling, Scotland, Great Britain . Postgraduate student and research assistant. 1991-1992

· Ministry of Agriculture , Fisheries & Food (MAFF). Directorate of fisheries and aquaculture research. Conwy, Wales, G.Britain . Research and completion assistant for thesis and publications on sole *Solea solea* . 1992

· Center for Hydrobiological Research Applied to Fisheries (CRIAP), Brescia, Italy. Research assistant in studies with sturgeons. 1992-1993.

10. COMMUNICATIONS AND PAPERS PRESENTED AT CONGRESSES AND SEMINARS

47. Opening address at the XXVII EUPRERA International Congress. *Regenerative communication : learning from living organisms* . Malaga. September 2026.

46. Invited lecture: Science and Biodiversity: Nature as a source of inspiration. By the Pamplona City Council/ Civivox Iturrama. November 2024.

45. Exhibition in Marine biomimicry at the 6th Regenerative Tourism Innovation Forum. Ibiza, October 2024.

44. Biomimicry at Sea Workshop. Balearic Marine Cluster & Superyacht Club. May 24. Palma Mallorca. Invited presentation.

43. Practical workshop on Biomimicry at the V Forum on Innovation in Regenerative Tourism. Ibiza, October 23, 2023.

42. Speaker at the IV Innovation Forum for a purposeful recovery of the tourism sector. Ibiza, October 6, 2022. Presentation: Tourism and Natural Capital: necessary interdependence. *https://www.hic.travel*

41. Speaker at the International Summer Course of the University of the Basque Country UPV/EHU: *The SDGs in Education from the paradigm of ecological economics, biomimicry and the rights of nature* . 7-8 September 2022. Online and in person.
https://www.uik.eus/en/activity/ods-educacion-paradigma-economia-ecologica-biomimesis-derechos-naturaleza

40. Madrid Design Festival, 2022. Madrid. Invited by the University of Navarra at the Instituto de Libre Enseñanza for the " Material Conversations" event . Presentation: Circularity of Materials: Emulating Nature. *https://www.lafabrica.com/madriddesignfestival/2022/02/03/transformacion-economia-y-prosperidad-madrid-design-festival-mira-al-futuro-en-su-quinto-aniversario-2/*

39. Animal Painting in the History of Art. Chapter I, pp. 21-24. In the book "Entrepreneurship and Innovation in Biomimetic and Bio-inspired Art." April 2021. UPV/EHU. University Library. ISBN : 978-84-1319-322-9. 244 pp.

38. Presentations on Natural Capital: a socioeconomic and ecological approach to biodiversity regeneration. In the Program of the International Course on Biomimicry at the Ibero-American level. December 13, 2021.

37. Presentation on Degrowth: A Biomimetic Strategy in the Face of Disaster? Co-authored with D. Becerra . III International Symposium on Biomimicry . Xalapa, Veracruz, Mexico. October 5-8, 2021.

36. Coordinator in Entrepreneurship and Innovation in Biomimetic and Bio-inspired Art. April 2021. UPV/EHU. University Library. ISBNa : 978-84-1319-322-9. 244 pp.

35. Summer Course at the UPV/EHU, Bilbao 8-9 July 2021. Biomimicry : methodology in higher education and reconnection with nature.
https://www.uik.eus/es/biomimesis-una-propuesta-multidisciplinar-para-afrontar-los-retos-de-sostenibilidad-post-covid

34. Presentation: Can a crustacean help your company? In Biomimicry , Building Ecocivilization . December 7-12, 2020. Amazonian University of Pando, Bolivia

33. Invited to 3 presentations on *Biomimicry and its applications* within the virtual Conference on Opportunities of the Circular Economy of the Institute of Sustainability. April 2020 [https://institutodesostenibilidad.es/jornada-economia-circular/].

32. Invited to COP 25 panel on Nature Based Solutions . Cibeles Palace, Madrid. December 2019

31. Invited by the UN- Habitat Office in Spain on UN World Cities Day, October 31, 2019 in Bilbao.

30. Biomimicry in Urban Greening . Conference at the ETIAAB (Agricultural Engineering) Campus of Excellence. Pronatur . May 2019.

29. Speaker on Biomimicry as an innovation for Higher Education. II International Congress of Biomimetic Studies . Amazonian University of Pando, Bolivia. April 2019.

28. Sustainability and territory. VII Sustainable Fashion Congress. Slow Fashion Next. Madrid. April 2019.

27. Biomimicry : Sustainable and Regenerative Innovation Inspired by Nature. Sessions on Bioeconomy and Timber and Non-Timber Forest Products. National Environmental Congress, Madrid, November 27, 2018
http://www.conama2018.org/web/generico.php?idpaginas=&lang=es&menu=386&op=view&id=5234

26. Bioeconomies. III Madrid Cities Forum. IFEMA. June 2018

25. Biomimicry as an educational and scientific strategy for the conservation of Biodiversity in the 21st Century . International Congress . Biodiversity and Sustainable Development of the Amazon. National Education Service SENA Leticia, Colombia. November 2017. Opening presentation.

24. Biomimicry in design: beyond sustainability in the 21st century. National Environmental Congress. CONAMA. 2016

23. Biomimicry in design: beyond sustainability in the 21st century. I International Symposium on Biomimicry Studies . Leticia-Amazonas, Colombia. May 2016. Invited presentation, inaugural session.

22. Biomimicry: challenges and opportunities in a Design School in Spain. Preliminary results . I Symposium Biomimicry Practicioners Conference. Majorca. European Biomimicry Alliance. 2015

21. Biomimicry in Design. Ibero-American Design Biennial BID. DIMAD, Matadero Madrid. 2015

20. Biomimicry : Bio-inspired sustainable innovation. VI Edition of Screenings and Debates for citizen empowerment. Despierta Association and La Casa Encendida of Madrid. June 2015.

19. Biomimicry and Sustainability. Conference on Biomimicry in Defense and Security Environments. Organized by the Spanish Institute for Strategic Studies of the Higher Center for National Defense Studies of the Ministry of the Army. Nov 2014.

18. Biomimicry and Fashion. II Slow Fashion Spain Conference. At the Costume Museum, Madrid, June 2014

17. Biomimicry as a sustainable catalyst for 3D printing. DIMAD Matadero Centre Conference "Where are objects going?". July 2013.

16. National Environmental Congress. Poster: Biomimicry or how Nature designs sustainable products and services. 2013.

15. Conference on Biology, Building and Energy Efficiency. General Directorate of Industry. Community of Madrid. Presentation: Biomimicry and Energy. What Nature Teaches Us. July 2012. Invited Speaker

14. Conference on Sustainability and Ecological Respect. Tomillo Foundation. Oral presentation: Education for Sustainability. Madrid, May 2011. Invited speaker

13. Conference on Social Responsibility as a Social Commitment. Presentation: Educating in Sustainability. University of Jaén, La Carolina. July 2008. Presentation guest

12. · II International Congress of the European Malacological Societies. Vigo, Spain. Presentation of 1 poster: · Laboratory propagation and culturing of juveniles of the engaged freshwater mussel *Margaritifera auricularia* . Sept 2002

11. · IX National Aquaculture Congress. Santander. Presentation of an oral communication: · Growth and survival of the Chondrostoma pardilla lemmingii , fed three different diets . June 2001

10. · III International Workshop on the Biology and Culture of Tench (*Tinca tinca* L.). Berlin , Germany. International. Presentation of 1 oral communication :
· Survival and growth of juvenile tench (*Tinca tinca*) fed different diets under water recycled systems.
3- panel presentation :
· Survival and growth of juvenile tench (*Tinca tinca*) fed different diets under water recycled systems.
·Characterization of the spermatozoa of the tench and its systematic implications in fishes.
· Effects of melatonin implants in male and female tench reared in natural or controlled conditions. Sept 2000.

9. Congress on *Freshwater Fish Conservation* . Algarve, Portugal. International. 2 oral presentations:

· Preliminary experiences on induced spawning and larval culture of Pardilla roach *Chondrostoma lemmingii* , cyprinid in danger of extinction in central Spain.
· RAPD markers as diagnostic keys for Cyprinidae identification.
Presentation of 3 posters :
·Aquaculture, a new challenge for recovering threatened fish species.
· Fitness of laboratory reared pardilla roach to seminatural environments previous to restoration.
· Preliminary results of a protection project of conservation of *Barbus comiza and Chondrostoma lemmingii* threatened of extinction in central Spain. November 2000

8. · II Iberian Congress of Animal Reproduction. National. Lugo. National. 1 oral communication: · Growth and survival of tench larvae fed under different strategies and types of Artemia nauplii. July, 1999

7. 7th National Aquaculture Congress. Las Palmas de Gran Canaria. National. 1 oral communication:
· Production of cladocerans (*Daphnia magna*) under suboptimal cultivation conditions.
2 posters:
· Influence of feed and live food (*Daphnia magna*) on the lipid composition of tench.
· Growth and survival of juvenile tench under controlled culture conditions maintained at different densities and fed with [specific] supplemental feed. September 1997

6. · II International Workshop on the Biology and Culture of Tench (*Tinca tinca* L.). Badajoz. 2 communications oral :
· Growth of juvenile tench (*Tinca tinca* , L.) under controlled conditions and semi-extensive culture.
· Compared growth among tench , (*Tinca tinca* , L.) fed with and without the addition of the cladocera genus *Daphnia* .
· 1 poster: · Fatty acids content in muscle tissue of tenchs , *Tinca tinca* L., cultures under intensive and extensive conditions. Sept 1997.

5. 6th National Aquaculture Congress, Cartagena. Presentation of a poster *awarded second prize* : Size dispersion in farmed tench (*Tinca tinca L.).* July 1997

4. ·Future Trends of Aquaculture Development in Eastern Europe. Budapest, Hungary.. International. Presentation of a poster: Weaning of the tench (*Tinca tinca* L.). Sept 1996

3. · *International Congress of Ichthyology and Fisheries.* Hull, Great Britain. Poster: · Effects of physical habitat on the populations of wild brown trout (*Salmo trutta* L.) in rivers of central Spain. April 1994 .

2. World Congress *of Ichthyology* . Oviedo, Spain. Presentation of a oral communication : · Population dynamics, density and biomass of brown trout (*Salmo trutta* L.) in relation to stream habitat and angling pressure in central Spain. Sept 1994.

1. · *World Aquaculture Congress* . Torremolinos, Malaga. Poster presentation: Size variation in cultured Dover sole (*Solea solea* L.). May 1993.

11. TEACHING ACTIVITY

38. Professor of Sustainability Management at EWA Duale Europäische Wirtschaftsakademie . Course for the ADE degree. 20 hours. 2026-

37. Professor of Sustainability in the Executive MBA Master's program. 10 hours. ESIC University . 2026-

36. Professor *Biomimicry: innovation inspired by nature* in Master for Sustainability & Business Transformation. 10 a.m. 2023-

35. Professor of *Environment, Climate & Development at Master in International Development MDI and Master International Relations* MIR. 7 a.m. 2024-2026

34. Associate Professor of Biomimicry and Systems Thinking at the Official School of Design, University of Navarra. Dec. 2019-

33. Sustainability Director Lab . IE University . 3 credits. 2018-

32. Professor of the IE Challenge subject . *Bachelor in Business Administration* . 6 ucts . IE University. 2024-2026

31. Professor of the subject Disruptive Innovation Ecosystems . *Bachelor in Business Administration* . 6 ucts . IE University. 2024-2025

30. Professor of the subject Animal Biodiversity . *Bachelor in Environmental Sciences for Sustainability*. 6 ucts . IE University. 2024-2026

29. Disruptive Innovation Ecosystems. Certificate Sustainability Management. IE University. 15 ECTS. Academic year 2022-2023.

28. Environmental Challenges. Higher Degree in Sustainability Management. 2nd year. 30 credits. ESIC University , Madrid.

27. Lecturer in the 1st Course on Sustainability in Sport. Spanish Olympic Committee. Biodiversity and Sport 12 h. 2022-2023.

26. Academic Director of Capstone projects in the Master's in International Development with the institutions Interface_floor ; Crowdfarming ; Ecoacsa : Biodiversity Reserve; Ocean Born Foundation ; and other companies. 2020-

25. Contracted Professor in the official subject of *Biodiversity & Conservation* of the Master in *International Development* at IE University . 2021-2026

24. Professor responsible for 6 sessions of *Advanced Seminars in Biomimicry innovation inspired by nature* within the special programs of IE University . 2020-2023

23. Teacher contracted by the Biodiversity Foundation for the Blue Economy training plan_ Regeneration Blue Life. European Social Fund Plan, October 2021

22. Permanent contract as Tenured Professor at ESIC, Department of Business Management. Pozuelo Campus. 2 subjects: CSR 2nd year and Global Challenges in Higher Degree in Sustainability Management.

21. Collaboration with the University of Girona. UN SDG Courses.

20. Visiting Professor at the Summer Courses: Biomimicry : A multidisciplinary proposal to address the challenges of post- Covid sustainability . University of the Basque Country/EHU. July 2021

https://www.uik.eus/es/biomimesis-una-propuesta-multidisciplinar-para-afrontar-los-retos-de-sostenibilidad-post-covid

19. Professor in the Master's Program in Environment, Sustainability and SDGs. UNESCO Chair, University of the Basque Country. Academic Year 2020-
http://www.ehu.eus/cdsea/web/index.php/master_propio/direccion-y-profesorado/

18. Seminar and conference on Biomimicry as a driver of sustainable innovation. Master's Degree in Design, Complutense University of Madrid. Academic Year 2020-2021

17. Lecturer in the international course Biomimicry , Construction of Ecocivilization . December 7-12, 2020. Amazonian University of Pando, Bolivia.

16. Biomimicry and Systems Thinking course for the School of Design at the University of Navarra. Pamplona, December 2020-2021

15. Biomimicry Workshop for Innova & Acción and Blue Red, a Foundation belonging to the Valencian Community. October 2020 (https://ceeivalencia.emprenemjunts.es/?op=14&n=17734)

14. Workshop on Biomimicry and Sustainability for the School of Design of the University of Navarra. Pamplona December 2019-2020.

13. Workshop: *Biomimicry sustainable innovation inspired by nature* for university students visiting Spain from the University of Maryland Robert H. Smith School of Business. Dimad , Madrid. December. 2018-2020.

12. Associate Professor at Instituto de Empresa, for the School of Design & Architecture , IE University, Sustainability course. 6 credits, 2nd year. Academic year 2018-

11. Director of the Slow Fashion Lab within the IEU Labs programs at IE Business School. Academic Year 2018-2024 https://ieulabs.ie.edu/ieu-labs/slow-fashion-lab/

10. Freelance lecturer at IED Madrid in the subject of Ecodesign-Education for Sustainability (4 ECTS credits). All first-year specializations . Academic year 2006-2019

Some projects with students:

2019 Women and Sustainability : https://issuu.com/manuelquirosgaldon/docs/m_s_vol1

Women and Sustainability : https://issuu.com/manuelquirosgaldon/docs/m_s_vol2

2017 Resilient Urban Fauna:

https://issuu.com/manuelquirosgaldon/docs/pfinal_issuu_design2016

2016 Solar_On : https://issuu.com/manuelquirosgaldon/docs/solar_on

2014 Ephemeral Biodiversity: https://issuu.com/manuelquirosgaldon/docs/biodiv_ied14

9. Freelance lecturer at IED Madrid in the subject of Bionics and Proportion - Biomimicry (4 ECTS). Specializations in Product Design. Academic Year 2006-2019

8. Freelance lecturer at IED Madrid in Masters Design & Innovation (Product & Strategic) 20h. in the subject of INTRODUCTION TO BIOMIMICRY. Academic year 2009-2019

7. External collaborating professor in Open Learning: How do I use Programming and Robotics in the Classroom? Academic Year 2015/2016. 150 hours/6 ECTS credits. UNED 2015-17

6. Teaching for schoolchildren and students of Forestry Vocational Training for the S.Diego Group 2014-2016

5. Seminar at ETSIMontes on Wastewater Treatment (8h). January 2003

4. Agroaquaculture subject (45h) at ETSIAgronomists . Feb-Jun 2000 and 2002

3. Teacher and Coordinator in Fauna subject (45 h) ETSIAgronomists . Feb-Jun 2000

2. Lectures in Doctoral Courses in Ichthyology (10h) ETSIAgrónomos . Academic Year 1999-2000

1. Lectures in Doctoral Courses in Physiology (6h) ETSIAgrónomos . Academic Year 1994-1996

12 SCIENTIFIC PUBLICATIONS (Articles)

32. Schanke, E., Mead, T ., Carlsen, A. & Quirós, M . (2026). How about the fish ?: how nature drives a regenerative agenda. Publ .: Academy of Management Discoveries . Under Review. November 2026.

31. Quirós, M. (2026). Regenerative Communication : Lessons from Living Systems for Strategic Communication . *Accepted for publication Euprera Congress book . November 2026. Accepted for publication.*

30. Who controls Whom ? Part 2. Zygote Quarterly Jornal 40. Vol.2, August 2026. ISSN 1927-8314

29. Interview with M. Quirós . Base 8. Monograph on Biodesign and Nature-Based Inspiration. Universidad del Desarrollo, Chile. September 2025. ISSN 0719-515X

28. Who controls who ? The Marvelous Evolutionary Alliance Between Flowers and Pollinating Insects . Part 1. Zygote Quarterly Jornal 38. Vol.2, August 2025. ISSN 1927-8314

27. Nature as a model for regenerative urban development. In the book: Green infrastructure, climate change and sustainable development . change and sustainable Development . Editorial Agrícola Española , May 2024. Ppp. 53-61. ISBN: 978-84-17884-35-2 | ISBN (Digital): 978-84-17884-35-2

26. Don't blame bats. Zygote Quarterly Journal No. 34. December 2023. Pages 64-75. https://zqjournal.org/editions/zq34.html

25. Biomimicry : Sustainable and regenerative innovation inspired by nature. ESADE-Banco Santander. January 2023 (Spanish/English). https://www.santander.com/content/dam/ladócero-com/es/contenido-paginas/landing-pages/ladócero-x-xperts/do-xperts-Whitepaper-Biomimesis-en.pdf1313

24. Biomimicry : An Opportunity for Innovation in Higher Education (pp. 27-39). In the book BIOMIMICRY, Entrepreneurship and Innovation, Consciousness and Technology 2020. Ed. Hernando Bernal
Zamudio, Gloria Marlene Díaz Muñoz and Unai Tamayo Orbegozo. Basque Ekintzailetzaren Behatokia – Basque Entrepreneurship Observatory, EEB-OVE, 2020. 439 pages . ISBN: 978-84-1222389-9-0.

23. How Life Works. Prologue to the book BIOMIMESIS, Entrepreneurship and Innovation, Consciousness and Technology 2020. Ed. Hernando Bernal Zamudio, Gloria Marlene Díaz Muñoz and Unai Tamayo Orbegozo. Basque Ekintzailetzaren Behatokia – Basque Entrepreneurship Observatory, EEB-OVE, 2020. 439 pages . ISBN: 978-84-1222389-9-0.

22. Circularity of Materials: Emulating Nature. RA Architecture Magazine (print and digital). ISSN: 1138-5596; ISSNe : 2254-6332. October 2020. In:
https://revistas.unav.edu/index.php/revista-de-arquitectura/article/view/40484
In English : https://revistas.unav.edu/index.php/revista-de-arquitectura/article/view/40484/34549

21 . Biomimicry: an inspired way to regenerative design in cities based on nature. Pp 79-92. In book Multifunctional Urban Green infrastructure. Editors J.Briz , M.Köhler & I.de Felipe. 347 pp. ISBN: 978-84-92928-96-5. Digital ISBN: 978-84-17884-00-0- Dep.Legal _ M-11856-2019

20. Biomimicry for social innovation and environmental regeneration. In the book *Rediscovering the Natural World: Biomimicry in Perspective*. Published by the National Open and Distance University (UNAD) of Colombia. 428 pp. January 2019. ISBN: 978-958-651-641-9 e-ISBN: 978-958-651-631-0

19. Biomimicry in design : beyond sustainability in the 21st century. Publications of the Colombian UNAD. In Proceedings of the 1st International Symposium on Biomimicry Studies . Aug 2017. ISSN 2590-8502. ISBN 978-84-617-7390-9

18. · Laboratory propagation and culturing of juveniles of the endangered freshwater mussel *Margaritifera 14Ladocerans 14*(Spengler, 1793). Journal of Conchology 38(1): 53-60. September 2003

17. · Survival and changes in growth of juvenile tench fed defined diets commonly used to culture non-cyprinid species. Journal of Applied Ichthyology 19 (2003) 149-151. June 2003

16. ·Dry diet -influenced growth, size distribution, condition coefficient and body deformities in juvenile crucian carp C *arassius 14ladóceros* , L. reared under controlled conditions (Archives of Polish Fisheries, 10, 1:51-61, 2002)

15. ·Growth and survival of tench larvae *Tinca tinca* L. fed under different feeding strategies. Journal of Applied Ichthyology 16. 2000 32-35

14*. · Aquaculture, a new challenge for recovering threatened fish species
13*. · RAPD markers as diagnostic keys for Cyprinidae identification
12*. · Preliminary results of a protection Project of conservation of *Barbus comi* za and *Rutilus lemmingii* threatened of extinction in Central Spain
11*. · Fitness of laboratory-reared pardilla roach, *Chondrostoma lemmingii* , to semi-natural environments previous to restocking
10*. · Preliminary experimented on induced spawning and larval culture of pardilla roach, cyprinid in danger of extinction in Central Spain

* *All (10-14) in* Book of Abstracts FWFish Conservation, options for the future , *nov. 2000 Albufeira , Portugal*

9. Production of 14ladocerans (*Daphnia magna*) under suboptimal cultivation conditions. In: Abstract of the VII National Aquaculture Congress, Las Palmas de Gran Canaria. 1999.

8. · Influence of feed and live food (*Daphnia magna*) on the lipid composition of tench. In: Abstract of the VII National Aquaculture Congress, Las Palmas de Gran Canaria . 1999.

7. Growth and survival of juvenile tench under controlled culture conditions maintained at different densities and fed with food supplement.
In: Abstract of the VII National Aquaculture Congress, Las Palmas de Gran Canaria . 1999.

6. Productive response of tench (*Tinca tinca)* fry fed with feeds of different fat and protein contents. In: Abstract of the VII National Aquaculture Congress, Las Palmas de Gran Canaria . 1999.

5. · Major fatty acid composition and lipid content of tench . A comparison between two different culture systems. Polish Archives of Hydrobiology vol 45 n 3. 1998. 347-351

4. · Growth of tench (*Tinca tinca* L.) fed with and without the addition of the cladoceran Daphnia. Polish Archives of Hydrobiology vol 45 n 3. 1998. 447-451.

3. · Population dynamics, density and biomass of brown trout (*Salmo trutta* L.) in relation to stream habitat and angling pressure in central Spain. *In* : Abstracts of the VIII Congress Societatis Europaea Ichthyologorum , Oviedo. 1994.

2. · Effects of physical habitat on the populations of wild brown trout (*Salmo trutta* L.) in rivers of central Spain In: Abstracts of International Congress of Ichthyology and Fisheries. Hull International. Fisheries Institute, Hull, 1994

1.· Size variation in cultured Dover sole (*Solea solea* L.) In: *Abstracts of the World Aquaculture Conference, Torremolinos* . 1993

12. SCIENTIFIC PUBLICATIONS (Books)

11. Green infrastructure , climate change and sustainable development . change and sustainable Development . Editorial Agrícola Española , May 2024. Chapter 2, pp. 53-61. ISBN: 978-84-17884-35-2 I ISBN (Digital): 978-84-17884-35-2

10. Education for Sustainability & Regeneration . Chapter 5. In book: Shaping a Sustainable Future. Innovative teaching practices for educating responsible leaders. Berlin School of Economics & Law. Vol. 72. ISBN 978-3-8487-8515-5 (Print); 978-3-7489-3309-0 (ePDF). 2022 (first edition). Pp 273-284.

9. Scientific Committee and the Artistic Design and Communication Committee of Volume I of the Thesaurus: Biomimicry , a holistic and transdisciplinary science in harmony with Nature. April 2022 ISBN: 978-84-09-40465-0

8. Chapter in Multifunctional Urban Green Infrastructure. Chapter 5: Biomimicry: an inspired way to regenerative design in cities based on nature. Pp. 79-92. Editors: Julián Briz, Manfred Köhler and Isabel de Felipe. 352 pp , 2019. Editorial Agrícola Española SA ISBN: 978-84-92928-96-5 II ISBN (Digital): 978-84-17884-00-0 . Legal Deposit: M-11856-2019

7. Chapter in *Rediscovering the Natural World. Biomimicry in Perspective.* Biomimicry for social innovation and environmental regeneration. Published by the National Open and Distance University (UNAD) of Colombia. 428 pp. January 2019. ISBN: 978-958-651-641-9 II e-ISBN: 978-958-651-631-0

6. Biomimicry for social innovation and environmental regeneration. In Monographic Book on

Biomimicry . International Network of Biomimicry Studies. ISBN: 978-958-651-641-9. E-book: e-ISBN: 978-958-651-631-0 2019

5. Biomimicry : Creative inspiration from nature and potential sustainability scenarios. Proceedings of the International Symposium on Biomimetic Studies (Leticia-Amazonas, April 27-29, 2016). Sierra, Sierra and Bernal (Eds .). RI+3 Biomimicry Network. Pp. 35-36 ISSN: 2590-8502

4.· E-book: *Guide to the best websites on sustainability 2010. Vol. 1* 2010
174pp ISBN 978 84 614 3333 9

3. Monographs Notes Subject: *Agro-aquaculture* STDs IA- UPM 174 pp 2001

2. **Monograph Notes for the** *Fauna* Subject . ETS IA- UPM 225 pp. 2000

1. *Aquatic Animal Production. Animal Science.* Mundiprensa 1997. *Animal Production Fundamentals. Volume XII* . Chapter II. **XXVI** Agricultural Book Award 1997. Pages: 32-49

13. OTHER PUBLICATIONS (dissemination)

38. Project Mochuelo. Quercus notebook (under review).
37. Project Mochuelo. Quercus notebook 459. May 2024. Nature Observatory in May.
36. It looks like an accident. ESIC University *Alumni Magazine* . March 2022.
35. Life in two worlds. The intertidal zone (part II). ZQJ no. 30 vol 2 December 2021.
34. The Fashion and Textile Sector in Spain. Innovation, Training, Legislation and other topics. July 2021. 85 pp. Provincial Council of Gipuzkoa .
33. Life in two worlds. The intertidal zone (part I). Zygote Quarterly Journal # 29 , Vol. 1 May 2021. pp.33-43.
32. Biomimicry as a strategic ally for innovation. Bluered . November 2020
31. Trains with bird-like beaks and photosynthetic cars. La Verdad. Vocento Group. November 2020
30. Nature as a source of inspiration. SBN. October 2020
29. The doughnut economy for Spain. The Sustainable City. July 2020. No. 40. Pp 50-55. Print edition
28. Nature's Strategies for a New Post-Globalization Business Era. Atalayar. May 20, 2020.
27. Green Campus at IE University . In the publication El Adelantado (June 19, 2019).
26. This is how we copy nature . El Ideal (Correo group). March 2019.
2.5 . Sustainable development . El País. March 2019
24. Biomimicry at the Ceuta Lighthouse. March 2019
23. Biomimicry : technologies inspired by nature. In Conéctate . June 2018
22. Bioeconomies in the FSMS Summary Book. FSMS Environment and Sustainability Forum. 2018
21. Look, learn, nature does it best. The Sustainable City. 2nd quarter, no. 31 May 2017. pp15-17
20. *cited in* Your consumption can change the world . Brenda Chávez, Ed Península. May 2017 Pages 68-69.
19. Nineteen things inspired by nature that remind us how wise it is . La Vanguardia. May 2016
18. Biomimicry and Entrepreneurship . The Sustainable City, June 2017

17. Album Biomimicry : Solutions inspired by Nature. CICAT. Univ. Valparaiso 2016

16. Biomimicry : notes from nature in NOW Oct 2015

15. cited in Biomimicry in Defense and Security Environments . Research Paper, University Center for Defense. Nov 2014

14. Bioinspired wave turbine CONAMA 2014

13. Biomimicry and II in The Sustainable City 2013 pp 82-85

12. Biomimicry I in The Sustainable City 2013 pp 50-53

11. We are ignorant in Ethic 2012

10. Greensigns in The Sustainable City 2012 pp86

9. 5 Kingdoms in The Sustainable City 2011 pp 74-79

8. Ecoconsciousness I in Ecoticias 2010 pp 3

7. Eco-consciousness II in Open Your Eye 2010 pp 3

6. A Spanish eye for wildlife Wildscape (cover and article) 2008 pp8-10

5. Art and conservation at National Geographic May 2007

4. Animal painting. Venatoria, Mar 2007

3. Aquaculture in Quercus May 2000

2. Conservation in the World April 2000

1. Fish conservation in National Geographic Nov 2000

14. COURSES AND SEMINARS ATTENDED

Only the most relevant and recent ones are included.

13.· Introduction to Nature-Positive Economy. Global Program on Nature for Development. UNDP. Nature for Life Hub. October 2026. Official certificate .

12 · Introduction to Nature, Business and Finance. Global Program on Nature for Development. UNDP. January 2025. Official certificate .

11. Introduction to Conservation Finance by the Conservation Strategy Fund's Numbers for Nature Training Institute. September 2023. Official diploma

10. · **Biodiversity Fundamentals: the business case for action. United Nations Global Compact Academy.** 2023. Official diploma

9. · **Foundations of Sustainability Instituto de Empresa University.** 2023

8. · **Circular Economy and the 2030 Agenda** of the United Nations System Staff College (UNSSC) and Knowledge Center for Sustainable Development, Bonn, Germany. May 2020

7. · **Think Resilience** from the Post Carbon Institute, USA. May 2020.

6. · Introduction to Sustainable Finance . Partnership for Action Green Economy & Deutsche Gessellchaft für Internationale Zusammernarbeit (GIZ) GmbH. 2020

5. · Introduction to Biomimicry . Biomimicry Institute, Missoula, MO, USA. 2014

4. · Quantitative Research Methodology and Statistical Techniques CSIC 1995
Criteria for Analysis, Assessment and Conservation of Fauna in Environmental Impact
CEDEX 1994

3. · English Language Programme University of Berkeley, USA 1990

2. · Data Processing on PC Coronado High School, USA 1990

1. Marine resources UIMP 1986

15. ACTIVITY IN COMPANIES AND FREELANCE PROFESSION

2023 - Regenerative Tourism Advisory Team. Ibiza Government. Hospitality Innovation Council. 5th edition .

2022 Research team in Regenerative Agriculture and Natural Capital on a private farm.

2021 Researcher, Provincial Council of Gipuzkoa. Sustainable Fashion Project and GK Fashion Cluster.

2019 - Executive Director of the *Think -Do Tank* Consensus for the Climate

- Conferences (only the most recent ones are listed):

Euprera Annual Congress	2026Regenerative Communication
Hospitality Inspiration Council	2022 -27 Natural Capital and Tourism
Institute of Applied Economics	2021 Ec.Donought . UPV/EHU
Sustainability Institute	2020: Opportunities in the Circular Economy
Cities Forum. IFEMA.2020 The city becomes natural	
COP 25	2019 Conference of the Parties, Madrid
UN_Habitat	2019 World Cities Day, Bilbao
Biomimicry 2019 II	International Symposium on Biomimicry , Cobija, Bolivia
	2019 Urban Greening Conference , UPM, Madrid
	2019VII Slow Fashion Next Day
Bioeconomies	2018I National Environmental Congress
Bioeconomies	2018 III Cities Forum, IFEMA Madrid

https://www.youtube.com/watch?v=7rL3i2vlcZQ&t=0s&list=PLDrJ-vkfwn9Y8pDK6j6hVUejn-RSoaHI1&index=23 [MINUTE 50]

Biomimicry & Social Innovation	2018	students University Maryland, USA
Biomimicry for Entrepreneurs	2017	100 attendees Erasmus+ Program

https://www.eventbrite.co.uk/e/taller-de-biomimesis-para-emprendedores-biomimicry-workshop-for-entrepreneurs-tickets-31319186530

Casa Encendida	2015
Ministry of Defense	2014
Slow Fashion Spain	2014
Community of Madrid	2013
DIMAD-Design Center	2012
Tomillo Foundation	2011
University of Jaén	2011

- Contract as a *freelance researcher* with the Higher Technical School of Forestry Engineers (UPM). February-December 2002

- Training module for the CUADEX fish farm on reproduction in aquaculture. 30 hours. June 2001

- Collaboration in the fish farm Cupimar in hatchery and nursery of sea bream, prawns and clams . Cadiz . 1991.

- Practical assistance at the Valencian eel aquaculture fish farm . Valencia. 1991.

- Director and co -creator of the magazine CULTICOMAR specializing in the area of aquaculture.

- 2002-present. Multidisciplinary artist specializing in Wildlife : www.manuelquiros.com More than 10 solo exhibitions.

- Solo art exhibition ***Re-connection*** at the Europe-Ibero-America Foundation. Works featuring wildlife and bio-inspired installations. May 2017 http://www.fundacionfie.org/

16. COLLABORATION WITH MEDIA

28. Guest on RNE's program Futuro Abierto: Topic: Biomimicry . April 2024.
27. Cited in Natural Capital and Tourism: In EFE Sta.Cruz Tenerife and Diario de Ibiza. 5-7 October 2022
26. Biomimicry for the Colpisa Agency , part of the Vocento Group. 15 regional print newspapers. October 2020
25. 2100: An Odyssey on Earth. Onda Cero Radio. August 2020
24. Imitating Nature to Survive . EFE Green Newsroom. August 22, 2020
23. Biomimicry . The Earth already had a patent . ABC Natural. Print edition. June 5, 2020. No. 143
22. Understanding the value of nature is the first step . The Sustainable City. Pp: 36-42. April 2020. Print and digital edition.

21. Former politicians and academics call on political parties to reach consensus on the climate challenge . El Confidencial. March 20, 2020
20. Is the future in cities ? October 31, 2019
19. *Designs that mimic nature for a more sustainable future* . El Mundo. Energy Efficiency Supplement. October 2, 2019. Print edition
18. Biomimicry on Radio Ecogestiona of Intereconomía. June 2017
17. Interview in the EFE Green Agency about Reconecta, student design projects on Design and Biodiversity. June 2017.
16. Radio appearance at the National Open and Distance University in Bogotá, Colombia. April 2016, *awaiting publication*
15. Publication in La Vanguardia digital. May 2016
14. Article in the newspaper AHORA, Science: Biomimicry , notes from Nature. Sep -Oct 2015
13. Radio appearance at the National University of Distance Education in Madrid, Spain (28 min). March 2015
12. Interview on RTVE, Para Todos La 2. (14 min) Mar 2014
11. Debate on RTVE, Para Todos La 2. (14 min) Jan 2014
10. Interview at IED Madrid, Higher Center for Design. Jan 2014
9. The dance of the kisses. Column by J. Montojo . El Mundo, Dec 2011
8. Interview in the Diario de Ibiza, Aug 2011
7. Interview. Magical Nature. Jara y Sedal. Jul 2009
6. News item about the animal exhibition. Hunting and fishing. Dec 2008
5. Realisms. The Point of the Arts, May 2008
4. Environmentalist. News about animal exhibition. Nov 2007
3. Birds in mixed technique. *National Geographic* , May 2007
2. Art in nature. La Nueva España, Apr 2007
1. Endangered endemic species. *National Geographic* , Nov 2000

17. OTHER TEACHING OR RESEARCH MERITS

· Award for **teaching excellence** at IE University courses: 2020-2021; 2021-2022; 2022-2023; 2024-2025; 2025-2026.

· IE Tower Hall Sustainability Award: Little Owl Project [installation of a *webcam* permanent in box nest for the species ; diffusion by *YouTube* .

· Recognition from the Ministry of Education of the Plurinational State of Bolivia for a discussion on Biomimicry broadcast live at the Amazonian University of Pando with the **attendance of 8,350** teachers. Oct 2019.

· Member in Biomimicry of:

- RI+3 Biomimicry Network (Ibero-America, Europe, USA). Co-founder and member
- European Biomimicry Alliance (Europe)
- Global Biomimicry Network (USA and worldwide)

· **Distinguished guest** of the Honorable Municipal Council of Cobija in the Amazonian Department of Pando, Bolivia. Oct 2019

· **III** GSD Foundation National **Award for Educational Innovation** through Biomimicry for the GSD Buitrago Center, Madrid. 2016

· **Finalist for** the Repsol Foundation Entrepreneurship Award with the startup project *:* Energy production using a bidirectional tidal turbine bio-inspired by the beak of the red flamingo *(Phoenicopterus ruber).* **Received a mention** from **Climate-Kic,** *an* EU accelerator.

· Member of the **Doctoral Thesis Tribunal** at the ETSIArquitectura of the UPM 2015

· **Accreditation** by the Agency for Quality, Accreditation and Foresight of the Universities of Madrid (ACAP) for the positions of PhD holder at private universities, tenured lecturer, and assistant lecturer. File number 2009/14599/1/0111. Oct 2009

· **Prize** for the poster on *Size Dispersion in Cultured Tench* at the VI National Aquaculture Congress. Cartagena, June 1997.

· **Award** for The scientific outreach video on the *controlled production of tench fry* at the V National Aquaculture Congress, Tarragona, Spain, 1995.

· Practical assistance to the IPESCON Fish Farm within the framework of a PETRI project (Spanish Project on Transfer of Research Results)

· Coordinator and Co-creator of the Fauna Subject at the ETSIA of the Polytechnic University of Madrid

· Design and management of the pilot fish farm of the Animal Production Dept. of the ETSIAgronomos of the UPM.

· Training of interns in aquatic research.

· Volunteer collaborator in the organization of the VIII European Congress of Ichthyology. Oviedo, 1994.

18. NGO COLLABORATION

· 2026 Academic collaboration with the FairTrade Spain certification

· 2025 Academic collaboration with the Healthy Seas Foundation.
Academic collaboration with the Global Nature Foundation.

· 2024- Collaboration with GREFA academic project on the biological control of the common vole in Castilla y León.

· 2023 - Collaboration with the Directo Natura Association

· 2019- Collaboration with ARBA (Association for the Repopulation of Native Forests).

· 2016- Co-founder of the International Network for Biomimicry Studies

· 2017 - Co-founder and President of Planeta Biomimetico España

· 2017- Co-founder of the Biomimetic Planet Foundation , Colombia

· 2018- Member of Amassunu *https://amassunu.org/amassunu-2020/*

· 2016 - Collaboration with the Omacha Foundation , Amazonas, Colombia. Strategic partners.

· 2014- Volunteer at BRINZAL

· 2013-2018 Co-founder and Treasurer of the Biomimicry Iberia Association

· 2013 - Volunteer at GREFA

· 2008- Volunteer at Asociación Despierta.