

MIREIA VALLE

Researcher **AZTI Marine Research, Basque Research and Technology Alliance (BRTA)**

Visiting scholar **National Center for Ecological Analysis and Synthesis- NCEAS-UCSB**

IPBES Fellow & Alumni network coordinator

ResearchGate: https://www.researchgate.net/profile/Mireia_Valle/info

Google Scholar: <https://scholar.google.es/citations?user=3CKhWRoAAAAJ&hl=en>

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BIO

Mireia Valle's research focuses on **variation and changes in ecosystems, species distribution modelling, future projections and mapping of marine species and habitats**. She was graduated in **Environmental Science** in the University of Girona and she got her **PhD** in the University of the Basque Country (UPV-EHU) in **Biodiversity and Ecosystem Functioning and Management** with **International Mention distinction** in 2014, which was awarded with an **excellent-Cum Laude** and the **PhD. Extraordinary Award 2016/2017**.

CURRENT POSITION

Institutions	AZTI Marine Research, Basque Research and Technology Alliance (BRTA)
Position	Researcher
Dates	Since May 2021
Tasks	Working on the URBAN KLIMA2050 project for the deployment of the Basque Climate Change Strategy 2050, project approved by the European Union within the Integrated Projects Area for mitigation and/or adaptation to climate changes; and the MISSION ATLANTIC Project , funded by Horizon 2020, a project that will better our understanding of Atlantic Ocean ecosystems and drivers of change that impact marine biodiversity and ocean resources, through the development of the Integrated Ecosystems.

EDUCATION

Title	Ph.D. in Biodiversity and Ecosystem Functioning and Management
Organization	Faculty of Science and Technology. University of the Basque Country.
Title obtaining date	October 2014
Thesis title	<i>Seagrass meadows under a changing climate: habitat modelling, restoration and monitoring</i>
Mention	Excellent-Cum laude and International Doctor distinction
Award	PhD Extraordinary Award 2016/2017
Title	M.Sc. in Biodiversity and Ecosystem Functioning and Management
Master thesis title	<i>Habitat suitability for Zostera noltii and its modification under a climate change scenario in the Oka estuary.</i>
Supervisor	Dr. Ángel Borja (h-index 78)
Organization	Faculty of Science and Technology. University of the Basque Country.
Title obtaining date	September 2009
Title	B.Sc. in Environmental Science
Organization	Faculty of Science. University of Girona. 4th year of Environmental Science in Sweden, University of Uppsala, ERASMUS internship at the Department of Ecology and Evolution from the Uppsala University (Sweden) <i>Algae influence flocculation of dissolved organic carbon in Boreal Lakes.</i> Supervisor: Prof. Lars Tranvik (h-index 86)
Title obtaining date	June 2007
Title	Associate Degree in Management and Organization of Natural and Landscape Resources
Organization	Secondary Education School of Murgia (Araba)
Title obtaining date	June 2002

PROFESIONAL EXPERIENCE

Institutions	BC3, Basque Centre for Climate Change & National Center for Ecological Analysis and Synthesis- NCEAS
Position	Postdoctoral researcher
Dates	March 2018- May 2021
Tasks	Developing own research project of 3 years under collaboration with BC3 and NCEAS. FutureSea- Envisioning the social-ecological future of seascapes under climate change: Integrating an ecological trait-based approach and social participatory scenario . The project aims to envision the social-ecological futures of seascapes under climate change using a functional trait-based ecosystem approach and a participatory modelling and scenarios approach in order to provide new insight for adaptive ecosystem management and analyse ways to improve policies to help vulnerable societies that depend on marine ecosystems to transit towards more resilient social-ecological systems recommendations.
Institution	Fundación Lurgaia Fundazioa - NGO for the Conservation and Management of the Natural Heritage of the Basque Country
Position	Researcher and management
Dates	October 2016-January 2018
Tasks	Coordination of the activities involving the work of volunteers. Writing projects for CO2 compensation. Responsible for the NGO's technical and logistical needs. Organization of monthly talks. Community communication manager of the NGO's activities and leader of a successful (187% funded) crowdfunding campaign.
Institution	Universidad Laica Eloy Alfaro de Manabí
Department	Central Research Department
Position	Project leader: Functional ecology of rocky reef ecosystems ecosystems along the Ecuadorian coast
Funds	300.000 USD
Dates	October 2014 – April 2016
Tasks	Integral monitoring of the benthic components of rocky reef ecosystems (corals, macroalgae, equinoderms). Habitat mapping and modelling. Laboratory analysis. Data processing. Writing of reports and scientific papers. Participation in international conferences. Supervision of undergraduate thesis. Teaching Aquatic ecosystem conservation course.
Institution	AZTI-Tecnalia
Department	Marine Research Division
Position	Ph.D. Scholarship: " Seagrass meadows under a changing climate: habitat modelling, restoration and monitoring ". Funded by: Iñaki Goenaga Foundation.
Supervisors	Dr. Guillem Chust (h-index 33) and Dr. Joxe Mikel Garmendia (h-index 15)
Dates	October 2009 – October 2014
Awards	Excellent-Cum laude and International Doctor distinction and PhD Extraordinary Award
Tasks	Habitat suitability modelling. Climate change projections. Restoration of intertidal habitats and monitoring. Habitat mapping. Image classification. Laboratory analysis. Data processing. Writing of reports and scientific papers. Participation in international conferences.
Visiting periods	from 02/05/2011 to 07/08/2011: Department of Environmental Science of Radboud University Nijmegen (The Netherlands) Aim: to increase knowledge about seagrass ecology and restoration Supervisor: Dr. Marieke van Katwijk (h-index 40) from 01/03/2012 to 15/04/2012: Department from the Laboratoire d'Ecologie Alpine in the University of Grenoble (France) . Aim: to broaden my expertise in habitat distribution models and their applications in ecology, evolutionary ecology and conservation, Supervisor: Dr. Wilfried Thuiller (h-index 117)

INTERNATIONAL PRESENCE

February 17-18, 2021	Selected as one of 100 participants that will take part in the Future of Synthesis in Ecology Workshop Hosted by the National Center for Ecological Analysis and Synthesis (NCEAS) Workshop that aims to build on the current status of synthesis science; explore emerging needs, opportunities and frontiers in ecology and environmental science by facilitating expansive and convergent discourse; and produce a forward-looking agenda for synthesis for the next decade
Since 24/02/2020	Participant researcher Science for Nature and People Partnership (SNAPP) Working Group Climate Resilient Fisheries . Principal investigators: Katherine Mills, Kristin Kleisner, Patrick Sullivan
Since 24/03/2018	Main coordinator IPBES Fellows and Alumni Network together with Dr. Odirilwe Selomane. Network created under the IPBES Capacity-building Rolling Plan
20/07/2015 to 24/03/2018	Fellow of the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES)

Selected between more than 400 applicants as an early career fellow to participate in the IPBES Regional Assessment for the Americas Chapter 5 of the "Current and Future Interactions between Nature and Society"

Coordinating Lead Authors Dr. Jean Pierre Ometto, Dr. Brian J. Klatt and Dr. Jaime García Marquéz

Attended meetings by invitation (chronological order):

1. **First author meeting of the Regional Assessment on Biodiversity and Ecosystem Services for the Americas.** Bogotá (Colombia), from 20 to 24 July 2015
2. **IPBES Fellows Pilot Programme: Training workshop.** Bonn (Germany), from 7 to 10 December 2015
3. **Contribution of Scenarios and Modelling and Capacity Building to the Regional Assessments and the Assessment for Land Degradation and Restoration workshop** (where she participated with an oral presentation). De Bilt (The Netherlands), from 25 to 27 January 2016
4. **Workshop on Multiple Values of Biodiversity and Ecosystem Services.** Cali (Colombia), from 16 to 17 October 2016
5. **Second Workshop on Scenarios and Modelling for IPBES.** Hayama (Japan), from 15 to 18 November 2016
6. **IPBES Fellowship Programme-Capacity Building workshop.** Bilbao (Spain), from 17 to 20 January 2017
7. **Fifth session of the Platform's Plenary (IPBES-5).** Bonn (Germany), from 7 to 10 March 2017
8. **Third author meeting of the Regional Assessment on Biodiversity and Ecosystem Services for the Americas.** Cartagena de Indias (Colombia), from 5 to 9 July 2017
9. **IPBES Fellowship Programme - Capacity-building workshop.** Medellín (Colombia), 17-20 March 2018
10. **Sixth session of the Platform's Plenary (IPBES-6).** Medellín (Colombia), 17-24 March 2018

Scientific impact

Bibliometrics (November 2022)

Google Scholar: Citations = 779, h-index = 15; i10-index = 18

Short summary of scientific contributions

I have published 22 papers in peer-reviewed journals, 5 of which I am the first author. I have presented my research at 12 international conferences as first author (10 oral presentations, 2 travel grant, 2 posters), I have been session chair in on conference and contributed as co-author to other 17 international conferences.

Publications in peer-reviewed journals (ISI)

1. Garnier R, Townend I, Monge-Ganuzas M, de Santiago I, Liria P, Abalia A, Epelde I, del Campo A, Chust G, Valle M, González M, Mader J, Gómez M, Castillo C, Uriarte A, accepted. **Modelling the morphological response of the Oka estuary (SE Bay of Biscay) to climate change.** Estuarine Coastal and Shelf Science.
2. Halpern, B. S., Boettiger, C., Dietze, M. C., Gephart, J. A., Gonzalez, P., Grimm, N. B., Groffman, P. M., Gurevitch, J., Hobbie, S. E., Komatsu, K. J., Kroeker, K. J., Lahr, H. J., Lodge, D.M., Lortie, C. J., Lowndes, J. S. S., Michelli, F., Possingham, H. P., Ruckelshaus, M. H., Scarborough, C., ..., Valle M, ..., Lancaster, L. accepted. **Priorities for synthesis in ecology and environmental science.** Ecosphere.
3. Mason JG, Eurich JG, Lau JD, Battista W, Free CM, Mills KE, Tokunaga K, Zhao LZ, Dickey-Collas M, Valle M, Pecl GT, Cinner JE, McClanahan TR, Allison EH, Friedman WR, Silva C, Yáñez E, Barbieri MA, Kleisner KM, 2022. **Attributes of climate resilience in fisheries: From theory to practice.** Fish and Fisheries 23: 522-544. <https://doi.org/10.1111/faf.12630>
4. Maasri A, Jähnig SC, Adamescu MC, Adrian R, Baigun C, Baird DJ, Batista-Morales A, Bonada N, Brown LE, Cai Q, Campos-Silva JV, Clausnitzer V, Contreras-MacBeath T, Cooke SJ, Datry T, Delacámara G, Meester LD, Dijkstra CDB, ..., Valle M, Vitule J, Volk M, Wang D, Wolter C, Worischka S, 2022. **A global agenda for advancing freshwater biodiversity research.** Ecology Letters: 25: 255-263. <https://doi.org/10.1111/ele.13931>
5. Alcívar-Mendoza LJ, Arellano-Verdejo J, Valle M, Cabanillas-Terán N, 2021. **Algae on coral rocky reefs as indicators of 1 disturbances along the Ecuadorian coast.** Regional Studies in Marine Science, 46: 101899. <https://doi.org/10.1016/j.rsma.2021.101899>
6. Garmedia JM, Valle M, Borja A, Chust G, Rodriguez GJ, Franco J, 2021. **Estimated footprint of shellfishing activities in Zostera noltei meadows in a northern Spain estuary: Lessons for management.** Estuarine Coastal and Shelf Science, 254: 107320 <https://doi.org/10.1016/j.ecss.2021.107320>
7. Rana S, Ávila-García D, Dib V, Familia L, Cavaleri Gerhardinger L, Martin E, Isla Martins P, Pompeu J, Selomane O, Tauli JI, Tran DHT, Valle M, von Below J, Pereira LM, 2020. **The voices of youth in building positive future scenarios for nature and people.** Ecosystems and People, 16: 326-344.
8. Coscieme L, da Silva Hyldmo H, Fernández-Llamazares A, Palomo I, Heita Mwampamba T, Selomane O, Sitas N, Jaureguiberry P, Takahashi Y, Lim M, Barral MP, Farinaci JS, Diaz-José J, Ghosh S, Ojino J, Alassaf A, Baatuwue BN, Balint L, Basher Z, Boeraeve F, Budiharta S, Chen R, Desrousseaux M, Dowo G, Febria C, Ghazi H, Harmackova ZV, Jaffé R, Kalemba MM, Lambini CK, Lasmana FPS, Mohamed AAA, Niamir A, Plissock P,

- Sabyrbekov R, Shrestha UB, Samakov A, Sidorovich AA, Thompson L, Valle M, 2020. **Multiple conceptualizations of nature are key to inclusivity and legitimacy in global environmental governance.** *Environmental Science and Policy*, 104: 36-42. DOI: <https://doi.org/10.1016/j.envsci.2019.10.018> Cited by 1
9. Sitas N, Harmáčková ZV, Anticamara JA, Arneth A, Badola R, Biggs R, Blanchard R, Brotons L, Cantele M, Coetzer K, DasGupta R, den Belder E, Ghosh S, Guisan A, Gundimeda H, Hamann M, Harrison PA, Hashimoto S, Hauck J, Klatt B, Kok K, Krug RM, Niamir A, O'Farrell PJ, Okayasu S, Palomo I, Pereira LM, Riordan P, Santos-Martín F, Selomane O, Shin Y, Valle M, 2019. **Exploring the usefulness of scenario archetypes in science-policy processes: experience across IPBES assessments.** *Ecology and Society* 24(3):35. <https://doi.org/10.5751/ES-11039-240335> Cited by 3
 10. Muñoz MC, Valle M, White RL, Jaffé R, 2019. **How can we all help conserve nature?** *Frontiers of Young Minds* 7:84. Doi: 10.3389/frym.2019.00084 Cited by 0
 11. Soissons L, Haanstra EP, van Katwijk MM, Asmus R, Auby I, Barillé L, Brun FG, Cardoso PG, Desroy N, Fournier J, Ganthy F, Garmendia JM, Godet L, Grilo TF, Kadel P, Ondiviela B, Peralta G, Puente A, Recio M, Rigouin L, Valle M, Herman PMJ, Bouma TJ, 2018. **Latitudinal Patterns in European Seagrass Carbon Reserves: Influence of Seasonal Fluctuations versus Short-Term Stress and Disturbance Events.** *Frontiers in Plant Science* 9, 88. <https://doi.org/10.3389/fpls.2018.00088> Cited by 4
 12. Soissons LM, van Katwijk MM, Peralta G, Brun FG, Cardoso PG, Grilo TF, Ondiviela B, Recio M, Valle M, Garmendia JM, Ganthy F, Auby I, Rigouin L, Godet L, Fournier J, Desroy N, Barillé L, Kadel P, Asmus R, Herman PM, Bouma TJ, 2017. **Seasonal and latitudinal variation in seagrass mechanical traits across Europe: The influence of local nutrient status and morphometric plasticity.** *Limnology and Oceanography* 63, 37-46. <https://doi.org/10.1002/lno.10611> Cited by 9
 13. Garmendia JM, Valle M, Borja A, Chust G, Dae-Jin L, Rodríguez JG, Franco J, 2017. **Effect of trampling and digging from shellfishing on *Zostera noltei* (Zosteraceae) intertidal seagrass beds.** *Scientia Marina* 81, 121-128. Doi: <http://dx.doi.org/10.3989/scimar.04482.17A> Cited by 8
 14. van Tussenbroek B, Soissons L, van Katwijk MM, van der Heide T, Brun F, Peralta G, Cardoso P, Grilo T, Ondiviela B, Valle M, Garmendia JM, Ganthy F, Godet L, Fournier J, Kadel P, Asmus R, Bouma T, 2016. **Pollen limitation may be a common Allee effect in marine hydrophilous plants: implications for decline and recovery in seagrasses.** *Oecologia* 182, 595-609. <https://doi.org/10.1007/s00442-016-3665-7> Cited by 9
 15. Valle M, Palà V, Lafon V, Dehouck A, Garmendia JM, Borja A, Chust G, 2015. **Mapping estuarine habitats using airborne hyperspectral imagery, with special focus on seagrass meadows.** *Estuarine, Coastal and Shelf Science* 164: 433-442. <https://doi.org/10.1016/j.ecss.2015.07.034> Cited by 16
 16. Valle M, Garmendia J, Chust G, Franco J, Borja A, 2015. **Increasing the chance of a successful restoration of *Zostera noltii* meadows.** *Aquatic Botany* 127: 12-19. <https://doi.org/10.1016/j.aquabot.2015.07.002> Cited by 10
 17. Reiss H, Birchenough S, Borja A, Buhl -Mortensen L, Craeymeersch J, Dannheim J, Darr A, Galparsoro I, Gogina M, Neumann H, Populus J, Rengstorf AM, Valle M, van Hoey G, Zettler ML, Degraer S., 2014. **Benthos distribution modelling and its relevance for marine ecosystem management.** *ICES Journal of Marine Science* 72: 297-315. <https://doi.org/10.1093/icesjms/fsu107> Cited by 89
 18. Valle M, Chust G, del Campo A, Wisz MS, Olsen SM, Garmendia JM, Borja A, 2014. **Projecting future distribution of the seagrass *Zostera noltii* under global warming and sea level rise.** *Biological Conservation* 170: 74-85. <https://doi.org/10.1016/j.biocon.2013.12.017> Cited by 60
 19. Chust G, Albaina A, Aranburu A, Borja A, Diekmann OE, Estonba A, Franco J, Garmendia JM, Iriondo M, Muxika I, Rendo F, Rodríguez JG, Ruiz-Larrañaga O, Serrão EA, Valle M, 2013. **Connectivity, neutral theories, and the assessment of species vulnerability to global change in temperate estuaries.** *Estuarine Coastal and Shelf Science* 131: 52-63. <https://doi.org/10.1016/j.ecss.2013.08.005> Cited by 28
 20. Valle M, van Katwijk MM, de Jong DJ, Bouma T, Schipper AM, Chust G, Benito BM, Garmendia JM, Borja A, 2013. **Comparing the performance of species distribution models of *Zostera marina*: implications for conservation.** *Journal of Sea Research* 83: 56-64. <https://doi.org/10.1016/j.seares.2013.03.002> Cited by 25
 21. Chust G, Borja A, Caballero A, Irigoien X, Saenz J, Moncho R, Marcos M, Liria P, Hidalgo J, Valle M, Valencia V, 2011. **Climate change impacts on coastal and pelagic environments in the southeastern Bay of Biscay.** *Climate Research* 48:307-332. <https://doi.org/10.3354/cr00914> Cited by 35
 22. Valle M, Borja A, Chust G, Galparsoro I, Garmendia J, 2011. **Modelling suitable estuarine habitats for *Zostera noltii*, using Ecological Niche Factor Analysis and Bathymetric LiDAR.** *Estuarine Coastal and Shelf Science* 94: 144-154. <https://doi.org/10.1016/j.ecss.2011.05.031> Cited by 63 * Sciencedirect top 25 list of most downloaded articles ranked 13th on the top 25 for estuarine, coastal and shelf science (2011)

Book chapters and articles in other journals

1. Rubio I, Salgueiro-Otero D, Ruíz-Díaz R, Norte M, Valle M, Ojea E, (2020). **Capítulo 6 Impactos del Cambio Climático en el Medio Marino y Adaptación. In Impactos del cambio climático en España. In press**
2. Ometto J.P.; Gadda T.; Toledo P.; Pires A.P.F.; Amaral A.G.; Siqueira M.F.; Gondim L.; Affe H.M.J.; Carnaval A.C.; Anjos L.; Lapola D.M.; Valle M.; Randow C.; Tejada G.; Domingues T.F.; Loyola R.D. **Capítulo 4: Interações entre Natureza e Sociedade: trajetórias do presente ao futuro.** In Joly C.A.; Scarano F.R.; Seixas C.S.; Metzger J.P.; Ometto J.P.; Bustamante M.M.C.; Padgurschi M.C.G.; Pires A.P.F.; Castro P.F.D.; Gadda T.; Toledo P. (eds.) (2019). 1º Diagnóstico Brasileiro de Biodiversidade e Serviços Ecossistêmicos. Editora Cubo, São Carlos, pp. 214-262.
3. Klatt B, García Márquez JR, Ometto JP, Valle M, Mastrangelo ME, Gadda T, Pengue WA, Ramírez Hernández W, Baptiste Espinosa MP, Wilson S, Acebey Quiroga SV, Blanco MV, Agard J, Guezala Villavicencio MC. **Chapter 5: Current and future interactions between nature and society.** In IPBES (2018): The IPBES regional assessment report on biodiversity and ecosystem services for the Americas. Rice, J., Seixas, C. S., Zaccagnini,

- M. E., Bedoya-Gaitán, M., and Valderrama, N. (eds.). Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany, pp. 437-521.
4. Garmendia, JM., Chust G, Valle M, Borja A, Franco J, 2015. **Praderas de angiospermas marinas del País Vasco**. In: Ruiz, J.M., Guillén, J.E., Ramos Segura, A. & Otero, M.M. (Eds.). Atlas de las praderas marinas de España. IEO/IEL/UICN, Murcia-Alicante-Málaga, pp 595-624.
 5. Zorrozuza N, Bald J, Chust G, Galparsoro I, Valle M, 2015. **Análisis de la idoneidad del hábitat de la almeja fina (*Ruditapes decussatus*) y el berberecho (*Cerastoderma edule*) en el estuario del Oka (País Vasco, norte de España)**. Revista de Investigación Marina, AZTI-Tecnalia, 22: 1-14.
 6. Garmendia J.M., Valle M., Borja A., Chust G, Franco J, 2013. **Cartografía de *Zostera noltii* en la costa vasca: cambios recientes en su distribución (2008-2012)**. Revista de Investigación Marina, AZTI-Tecnalia, 20: 1-22.
 7. Gorostiaga JM, Irigoien X, Borja A, Fernandes JA, Chifflet M, Gonzalez M, Revilla M, Bald J, Valle M, Garmendia JM, Valencia V, Fontán A, Chust G., 2011. **Biodiversidad, ecosistemas y recursos marinos**. In: Servicio Central de Publicaciones del Gobierno Vasco (Eds.) Cambio climático, impactos y adaptación en la Comunidad Autónoma del País Vasco, Vitoria-Gasteiz, pp 53-63.
 8. Valle M., Borja A., Galparsoro I., Garmendia J.M., Chust G., 2010. **Estudio del hábitat idóneo para *Zostera noltii* y su modificación bajo un escenario de cambio climático en el estuario del Oka**. Revista de Investigación Marina 17: 1-12.

Presentations

Presentations at international conferences

1. Valle M, Martínez Díaz-Caneja B, Lezama-Ochoa N, Ibaibarriaga L, Citores L, Ramirez-Romero E, Chust G. "Species distribution models in a changing climate: Methods and applications". ECSA 59: Using the best scientific knowledge for the sustainable management of estuaries and coastal seas, Donostia-San Sebastian, Spain. 05-09 September 2022. Session chair and communication: Oral.
2. Valle M, Ramirez-Romero E, Ibaibarriaga L, Citores L, Chust G. "3D Species Distribution Models of the main commercial Fish in the Atlantic". Ocean Sciences Meeting 2022, Hawaii (virtual), EEUU. 24-02 to 04-03-2022. Communication: Oral.
3. Valle M, Halpern BS, O'Hara C, Kaschner K. "Mapping global functional diversity of marine fish and its redistribution under global environmental change". ICES Annual Science Conference, Gothenburg, Sweden. 9-12 September 2019. Communication: Oral. AWARDED TRAVEL GRANT (600€).
4. Valle M., Figueroa-Guzmán J., Alcivar-Mendoza L., Trujillo-Silva M., Zambrano-Pilay V., Cabanillas-Terán, N. "Comunidades de fondos rocosos y arrecifes de coral de la costa ecuatorial: estado actual y proyecciones futuras". Segundo Congreso de Biología Marina y Ambiente PUCE-Manabí, Bahía de Caráquez, Ecuador. 24-27 November 2015. Communication: Oral.
5. Valle M, Palà V, Lafon V, Dehouck A, Garmendia JM, Borja A, Chust G. "Cartografiado de hábitats costeros mediante imágenes hiperespectrales aerotransportadas". Primer Congreso de Biología Marina y Ambiente PUCE-Manabí, Bahía de Caráquez, Ecuador. 26-28 November 2014. Communication: Oral.
6. Valle M, Chust G, del Campo A, Wisz MS, Olsen SM, Garmendia JM, Borja A. "Projecting future distribution of the seagrass *Zostera noltii* under global warming and sea level rise". Seagrasses in Europe: Threats, Responses and Management, Olhão, Portugal. 4-6 March 2014. Communication: Poster.
7. Valle M, Chust G, del Campo A, Garmendia JM, Borja A, Wisz MS, Olsen SM. "Modelling the response of *Zostera noltii* seagrass and saltmarshes to climate change". ICES Annual Science Conference 2013, Reykjavík, Iceland. 23-27 September 2013. Communication: Oral. AWARDED TRAVEL GRANT (600€).
8. Valle M, Chust G, del Campo A, Garmendia JM, Borja A, Franco J. "Coupling hydromorphologic and habitat models to project changes in seagrass distribution under two sea level rise scenarios" GEOHAB 2013, Marine Geological and Biological Habitat Mapping, Rome, Italy. 6-10 May 2013. Communication: Oral.
9. Valle M, Benito B, van Katwijk MM, de Jong D, Borja A, Chust G. "Modelling spatial and temporal variability of intertidal *Zostera marina* on the Ems estuary, Dutch Wadden Sea". SIEBM, XVII Simposio Ibérico de Estudios de Biología Marina, San Sebastián, Spain, 11-14 September 2012. Communication: Oral.
10. Valle M, Garmendia JM, Borja A, Chust G, Franco J. "Intertidal seagrass restoration in the Basque Country: First steps with *Zostera noltii*". Coastal ecosystems vulnerability to global change and extreme events, Biarritz, France, 18-21 of October 2011. Communication: Poster.
11. Valle M, Garmendia JM, Borja A. "Selection of transplanting sites for *Zostera noltii* by Ecological Niche Factor Analysis at the Basque Country". I European Seagrass Restoration Workshop, Portinho de Arrábida, Portugal, 30 September-1 October 2010. Communication: Oral.
12. Valle M, Borja A, Galparsoro I, Garmendia JM, Chust G. "Predicting suitable habitat for *Zostera noltii* on the Oka estuary and its modification under mean sea level rise scenario". XII International Symposium on Oceanography of the Bay of Biscay, Brest, France, 3-6 May 2010. Communication: Oral.

Invited speaker

1. Invited as **facilitator: IPBES Youth workshop**. Sao Pedro (**Brazil**), 27-28 June 2019. Workshop organized under the auspices of the IPBES capacity-building task force in collaboration with the IPBES expert group on scenarios and models. Aim: expand involvement in IPBES' efforts and increasing use of IPBES products, among early-career scientists, decision- and policymakers and practitioners, including representatives of different knowledge systems. and explore future scenarios of biodiversity and ecosystem services from the perspective of early-career professionals and contribute to IPBES' work on scenarios and models. Place: São Pedro, (**Brazil**). Dates: 27-28 June 2019
2. **Invited talk:** FutureSea- Envisioning the social-ecological future of seascapes under climate change: Integrating an ecological trait-based approach and social participatory scenarios at INPE (Instituto Nacional de Pesquisas Espaciais) São José dos Campos, (**Brazil**). Date: 25 June 2019

3. **Invited talk:** IPBES Journey as a Fellow and the IPBES Fellows & Alumni network. Congress: IPBES fellowship programme – induction day for the sustainable use of wild species assessment fellows. Montpellier (France). Dates: 02/12/2018 to 02/12/2018
4. **Invited talk: IPBES Fellowship Programme - Our experience.** Workshop: Biodiversity Science-Policy Interfaces Network for Early Career Scientists- BSPIN Workshop prior to IPBES-5. Place: Bonn (**Germany**). Dates: 05/03/2017 to: 05/03/2017
5. **Invited talk: Sharing experiences and outcomes from the Young Fellows meeting in Bonn.** Workshop scenarios and modelling IPBES assessment. Place: Bilthoven (**The Netherlands**). Dates: 25/01/201 to 27/01/2016

FUNDING

Projects		
2015-2016	Functional ecology of rocky reef ecosystems ecosystems along the Ecuadorian coast (Universidad Laica Eloy Alfaro de Manabí). Funder: SEMPLADES (Ecuador)	300,000 USD
Grants		
2018-2021	Post-doctoral funding for Research Staff Improvement from Education Department of the Basque Government. <i>Funding for conducting my postdoctoral research</i>	86,560 €
2019	ICES Annual Science Conference 2019. <i>Travel grant</i>	600 €
2015-2018	IPBES Fellowship. <i>Travel expenses and Daily Subsistence Allowance (DSA) to attend 12 meetings and workshops</i>	35,000 €
2016	11th ALTER-Net Summer School Challenge your knowledge on biodiversity & ecosystem services. <i>Scholarship that covered the cost of the tuition fee</i>	800 €
2016	International Spring University on Ecosystem Services Modeling Fourth Edition. <i>Scholarship that covered the cost of the tuition fee</i>	975 €
2013	ICES Annual Science Conference 2013. <i>Travel grant</i>	600 €
2009-2013	Pre-doctoral training grant from Iñaki Goenaga – Fundación Centros Tecnológicos (IG – ZTF). <i>Funding for conducting my PhD</i>	60,000 €
2006-2007	Fundació Territori i Paisatge grants to carry out projects for the protection of the natural heritage and the landscape. <i>Funding to develop Final Degree Project</i>	8,000 €
2007	Fellowship from the Bancaja international Fellowship program with Spanish universities to promote international mobility among university students to countries not included in the Erasmus program. <i>International stage of 7 months in Nicaragua</i>	2,500 €
2007	Mobility grant from the Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)	1,000 €
2006	Erasmus Programme (EuRopean Community Action Scheme for the Mobility of University Students) grant. Internship at the Department of Ecology and Evolution from the Uppsala University (Sweden)	1,200 €
2005	University of Girona collaboration grant. Working at for the student council	3,150 €
2004	University of Girona collaboration grant. Working at the University's library	3,150 €

SUPERVISED AND MENTORING ACTIVITIES

1. Mariel Carolina Trujillo Silva, 2017. Evaluación de la tasa de crecimiento de corales ramificados del género Pocillopora (Anthozoa: Scleractinia) en dos sitios con fondos rocosos de la costa de Manabí. Facultad de Ciencias del Mar-Universidad Laica Eloy Alfaro de Manabí, Ecuador. Final Degree Project. Grade: Excellent
2. Victor V. Zambrano Pilay, 2017. Estimación de densidad poblacional y distribución batimétrica de equinodermos (Echinodermata: Asteroidea, Echinoidea, Holothuroidea) en un fondo rocoso de la costa ecuatoriana. Facultad de Ciencias del Mar-Universidad Laica Eloy Alfaro de Manabí, Ecuador. Final Degree Project Grade: Excellent
3. Limber Alcivar Mendoza, 2016. Evaluación de la tasa de crecimiento en corales ramificados del género Pocillopora (Anthozoa: Scleractinia) en dos fondos rocosos de la costa ecuatoriana. Facultad de Ciencias del Mar-Universidad Laica Eloy Alfaro de Manabí, Ecuador. Final Degree Project Grade: Excellent
4. Jorge Figueroa Guzmán, 2016. Contribución al conocimiento de la fauna de octocorales (Octocorallia: Gorgoniidae) en el arrecife rocoso del islote Los Ahorcados, Manabí-Ecuador. Facultad de Ciencias del Mar-Universidad Laica Eloy Alfaro de Manabí, Ecuador. Final Degree Project Grade: Excellent

MOST RELEVANT COURSES AND MEETINGS

- **Data Science and Collaboration Skills for Integrative Conservation Science.** Intensive 4-day workshop held at NCEAS, University of California Santa Barbara from Feb 18 to Feb 21, 2020. Training sponsored by Science for

Nature and People Partnership (SNAPP) to promote scientific computing and open science best practices. 34 academic hours

- **Instructor Training course by Data Carpentry.** Remote course organized for the University of California, Santa Barbara, Library's Interdisciplinary Research Collaboratory March 19-20. 12 academic hours.
- **Geospatial workshop by Data Carpentry.** Workshop held at University of California, Santa Barbara, Library's Interdisciplinary Research Collaboratory November 14-15 and 21-22. 12 academic hours.
- **COMPASS workshop: Communicating your science.** 8 September 2019, Gothenburg School of Economics (Sweden). Early-career event at ICES Annual Science Conference 2019
- **"Using Design Thinking to Solve Environmental Challenges"** course/workshop led by Bre Przestrzelski post-doctoral research associate at the University of San Diego (USD) and Kareem Collie Director of Design and Creativity at the Sontag Center for Collaborative Creativity (a.k.a. The Hive). Workshop organized by the Latin American Fisheries Fellowship Program hosted by the Bren School's Sustainable Fisheries Group (University of California Santa Barbara UCSB). 1-2 June 2019. 16 academic hours
- Enrolled in **Introduction to Resilience for Development: a Massive Open Online Course.** Organized by: UNDP, in collaboration with SwedBio. (31 October- 27 November, 2017).
- Curso básico online **Servicios de los Ecosistemas y Bienestar Humano en Euskadi.** Organized by: Cátedra UNESCO sobre Desarrollo Sostenible y Educación Ambiental de la UPV/EHU and UNESCO Etxea – Centro UNESCO del País Vasco. 15 academic hours (3-21 July, 2017)
- Participation on the **BC3 Summer School "Climate Change in an Era of Uncertainty.** Directors: Dr. Mikel González-Eguino (BC3, Basque Centre for Climate Change) and Dr. Alberto Ansuategi (University of the Basque Country). Organized in collaboration with the University of the Basque Country. San Sebastian, Spain. 30 academic hours (5-7 July, 2017).
- Participation on the **Klimagune 2017. Climate change and public engagement.** Coordinator: Ignacio Palomo, Postdoctoral Researcher at Basque Centre for Climate Change (BC3). Leioa, Spain. 8 academic hours (31 May, 2017).
- Participation on the **11th ALTER-Net Summer School Challenge your knowledge on biodiversity & ecosystem services.** Conveners: Allan D. Watt (Centre for Ecology and Hydrology, UK), Taru Peltola (Finnish Environment Institute, Finland/ IRSTEA, France), Steve Redpath (Aberdeen University, UK), Uta Fritsch (EURAC-European Academy, Italy) and Marie Vandewalle (Helmholtz Centre for Environmental Research- UFZ, Germany). Peyresq- Alpes de Haute Provence, France. 80 academic hours (7-17 September, 2016). Granted with a scholarship that covered the cost of the tuition fee (800€).
- Participation on the **BC3 Summer School Climate Change Challenges after Paris agreement.** Directors: Dr. Ibon Galarraga (BC3, Basque Centre for Climate Change) and Dr. Marta Escapa (University of the Basque Country). Organized in collaboration with the University of the Basque Country. San Sebastian, Spain. 30 academic hours (11-13 July, 2016).
- Participation on the **DEVOTES-EUROMARINE SUMMER SCHOOL 2016- Marine ecosystem services, management and governance: linking social and ecological research.** Director: Dr. Ángel Borja Yerro (AZTI-Tecnalia, Marine Research Division). San Sebastian, Spain. 18 academic hours (6-9 June, 2016).
- Participation on the **International Spring University on Ecosystem Services Modeling** Fourth Edition. An event co-convened by BC3, Basque Centre for Climate Change, in collaboration with the University of Vermont. Bilbao, Spain. 80 academic hours (2-13 May, 2016). **Granted with a scholarship** that covered the cost of the tuition fee (975€).
- **I Congreso Nacional de Ciencias Ambientales.** Organizer: Facultad de Agropecuarias. Universidad Laica Eloy Alfaro de Manabí. Manta, Ecuador. 40 academic hours (23-25 September, 2015).
- **XXXVIII Jornadas Nacionales de Biología.** Organizer: Universidad Laica Eloy Alfaro de Manabí. Manta, Ecuador. 40 academic hours (27-29 November, 2014).
- Training on **"Valuation and mainstreaming of biodiversity and ecosystem services"**. Organizer: ConservationTraining: open, online learning resource that provides high-quality educational content on a broad set of conservation issues. 10 academic hours (January, 2014).
- Summer course **"Addressing climate change challenges from a multidisciplinary perspective"**. Directors: Prof. Anil Markandya (BC3, Basque Centre for Climate Change) and Dr. Mikel Gonzalez (BC3, Basque Centre for Climate Change and UPV/EHU, University of the Basque Country). San Sebastian, Spain. 30 academic hours (8-10 July, 2013).
- **VIII Course of the Global Biodiversity Information Facility in Ecological Niche Modelling.** Teacher: Blas M. Benito (Grupo iEcolab, Centro Andaluz de Medio Ambiente – Universidad de Granada). Madrid, Spain. 30 academic hours (24-27 April, 2012).
- Participation in the **Spring School 'Habitat distribution models and their applications in ecology, evolutionary ecology and conservation'** 35 academic hours (12-16 March 2012). Organized by: W. Thuiller, A. Guisan & N.E. Zimmermann.
- International Conference **"Biscay and the Millennium Ecosystem Assessment. From local to global and vice-versa"**. Organizers: The Regional Government of Biscay, the UNESCO Chair on Sustainable Development and Environmental Education of the University of the Basque Country (Spain) and UNESCO Etxea. Bilbao, Spain. (25-26 November, 2010).
- Summer course **"Sustainability in the marine environment"**. Director: Dr. Ángel Borja Yerro (AZTI-Tecnalia, Marine Research Division). San Sebastian, Spain. 30 academic hours (14-16 July, 2010)

LANGUAGES

- **Spanish** (mother tongue)

- **Basque** (mother tongue): Certificate in Advanced Basque Language (C1) Official Language School (June 2014).
- **English**: Certificate in Advanced English (C1) Official Language School (May 2013)
- **Catalan** (intermediate level)