

Los ODS en la Educación desde el paradigma de la Economía Ecológica, la Biomimesis y los Derechos de la Naturaleza



07.Sep - 08.Sep 2022

Cod. H20-22

Mod.:

Streaming Classroom

Edition

2022

Activity type

Summer course

Date

07.Sep - 08.Sep 2022

Location

Bizkaia Aretoa-UPV/EHU

Languages

Spanish

Academic Validity

20 hours

Organising Committee





Description

The positive experience of the first summer course called "Biomimicry, a multidisciplinary proposal to face the challenges of post-COVID sustainability", made it possible to identify the need to carry out another summer course aimed at achieving a highly qualified human resource from the Biomimicry paradigms and the SDGs. This course is especially aimed at the field of university education and Vocational Training, although it can be extended to non-formal education, the professional, business, and labor world; and, of course, to the NGOs. The objective is to implement a high quality education, which is inclusive, with gender equity and where science and technology are transdisciplinary and holistic in harmony with Nature, which is urgent in higher education.

Objectives

To harmonise and make viable the new vision on Higher Education regarding living in harmony with Nature, to build an ecological civilisation focused on the SDGs, transversalised from the professional, university and vocational training sphere under the paradigm of Ecological Economics, Biomimicry and the Rights of Nature.

Fulfil the UN SDGs that are socially accepted but have not yet been integrated into the education system based on transdisciplinary, regenerative and holistic knowledge, science and technology; where inter- and intra-generational co-responsibility in relation to the components of Nature prevails.

Course specific contributors





Program

07-09-2022

08:45 - 09:00 Registro

09:00 - 09:30 Institutional Opening session. Speaking order:

Eliot Graeff | Centro de Estudios y de Experiencias en Biomimetismo (CEEBIOS) de Francia
(Participation by zoom)
Gabriel Castañares Hernández | Ministerio de Derechos Sociales y Agenda 2030 /
Secretaría de Estado para la Agenda 2030 - Director General de Políticas Palanca para el
Cumplimiento de la Agenda 2030 **(Participation by zoom)**
Jon Barrutia Guenaga | UPV/EHU - Decano de la Facultad de Economía y Empresa

09:30 - 09:45 Presentation by the Director of the activity

M^a Estrella Sánchez Corchero | UPV/EHU - Profesora y Experta en Economía Ecológica
del programa HwN de la ONU y en Innovación Educativa por las universidades del País
Vasco, Europea de Madrid e Isabel I de Castilla
Unai Tamayo Orbegozo | UPV/EHU - Economía Circular y Consumo Responsable
Hernando Bernal Zamudio | Miembro del Programa Harmony with Nature de las Naciones
Unidas y de la Asociación Internacional de Economía Ecológica

BLOQUE I: NATURALEZA

09:45 - 10:00 “CONFERENCIA INAUGURAL”

María Mercedes Sánchez | HwN, de la Organización de las Naciones Unidas, ONU -
Directora **(Participation by zoom)**

10:00 - 10:30 “SESIÓN 1: ODS Y LA AGENDA 2030. SERVICIOS DE LOS ECOSISTEMAS COMO
PROMOTORES DE LA VIDA. ACTUACIONES DESDE LA FORMACIÓN SUPERIOR
ACORDES A LA AGENDA 2030”

La Educación Ambiental en el Nuevo Paradigma

Ibone Ametzaga Arregi | Cátedra UNESCO de Desarrollo Sostenible y Educación
Ambiental de la UPV/EHU - Directora

Los ODS en el Nuevo Paradigma. El papel de la Educación en su implementación
efectiva en la sociedad

Estíbaliz Sáez de Cámara Oleaga | Directora de Sostenibilidad y miembro de los Consejos
de Cooperación al Desarrollo vasco, de la UPV/EHU y la Red Española para el Desarrollo
Sostenible (REDS)

10:30 - 11:00 “SESIÓN 2: LA NATURALEZA COMO SUJETO DE DERECHO (nuevo paradigma de
las Naciones Unidas)”

El mar Menor como Sujeto de Derecho

Teresa Vicente | Universidad de Murcia



El Proceso de Inclusión de la Naturaleza como sujeto de Derecho, en Asia, Logros y Desafíos

Jaehwan Shim | Instituto de Estudios Latinoamericanos de la Universidad Hankuk de Corea del Sur **(Participation by zoom)**

El Proceso de Inclusión de la Naturaleza como sujeto de Derecho, en Europa y América, Logros y Desafíos

Susana Borrás Pentinat | Universitat Rovira i Virgili (Cataluña) - Experta en Derechos de la Naturaleza del Programa Harmony with Nature, HwN, de la Organización de las Naciones Unidas, ONU **(Participation by zoom)**

11:00 - 11:30

Break

BLOQUE II: EDUCACIÓN

11:30 - 12:00

Round table: “SESIÓN 3: EL NUEVO PARADIGMA EDUCATIVO RETOS Y OPORTUNIDADES”

M^a Estrella Sánchez Corchero | UPV/EHU - Profesora y Experta en Economía Ecológica del programa HwN de la ONU y en Innovación Educativa por las universidades del País Vasco, Europea de Madrid e Isabel I de Castilla (Moderator)

Bonifacio Pedraza | Universidades Complutense y Europea de Madrid

Natalia María Simón Medina | Universidades de Castilla-La Mancha

Ainhoa Saitua Iribar | UPV/EHU - Juegos y Simulación para la Educación y Sostenibilidad

Manuel Quirós Galdón | Consultor en Biomimesis (natureinspireus.com); cofundador de Biomimicry Iberia Association y de la Red Internacional de Biomimesis RI3 Biomimesis y Director del Think-Do Tank: Consenso por el Clima ubicado en España

12:00 - 12:30

“SESIÓN 4: LA FP COMO RETO DEL SIGLO XXI en el nuevo paradigma”

Jorge Arevalo Turrillas | Gobierno Vasco - Viceconsejero de FP

Juan Antonio Sánchez Corchero | Fundación Aspasia - Director

Teresa López de Armentia Iturralde | Asociación Zabalketa

12:30 - 13:00

“SESIÓN 5: EXPERIENCIAS EN LA UPV/EHU”

Gustavo Vargas Silva | Universidad del País Vasco UPV/EHU

Urko Izquierdo Ereño | UPV/EHU

Carlos García Gáfaró | UPV/EHU

13:00 - 13:30

Alexandra Castellanos Perdigón. TALLER CONEXIÓN CON LA MADRE NATURALEZA (Opcional)

15:00 - 15:30

“SESIÓN 6: EDUCACIÓN ECOLÓGICA Y BIOMIMÉTICA”

M^a Estrella Sánchez Corchero | UPV/EHU - Profesora y Experta en Economía Ecológica del programa HwN de la ONU y en Innovación Educativa por las universidades del País Vasco, Europea de Madrid e Isabel I de Castilla

Armando Contreras Hernández | Instituto de Ecología de México (INECOL) - Director **(Participation by zoom)**

Eduardo Federico Schaefer | Universidad Nacional del Nordeste y de la Universidad Nacional de la Plata, Argentina. **(Participation by zoom)**

Cristian Javier Urbina Velasquez | Universidad Nacional de Educación del Ecuador **(Participation by zoom)**

Javier Collado Ruano | Universidad Nacional de Educación del Ecuador **(Participation by zoom)**



15:30 - 16:00

“SESIÓN 7: LA ENSEÑANZA DE LAS ENERGÍAS RENOVABLES“

Inmaculada Zamora Bélver | UPV/EHU - Transición energética en base energía de hidrógeno

Edilberto de Jesús Pérez Ali Osman | Universidad de Holguín (Cuba)

Rafael Leonardo Espinosa Paredes | Centro de Energías Renovables y Uso Racional de la Energía, Universidad Nacional de Ingeniería de Lima (Perú) **(Participation by zoom)**

Jorge Becerra Orcajo | Grupo INGEM: servicios energéticos e ingeniería

Jesús María Blanco Ilzarbe | UPV/EHU - Responsable del Master en Energías Renovables del Medio Marino

Vania Lindsay Téllez | Universidad Mayor de San Andrés (Bolivia) - Docente del ámbito transdisciplinar en materia de gestión de ecosistemas urbanos **(Participation by zoom)**

BLOQUE III: FILOSOFÍA Y ÉTICA

16:00 - 16:30

“SESIÓN 8: FILOSOFÍA BIOMIMÉTICA: Desde Los Sistemas Complejos Y Coevolutivos Hacia La Civilización Ecológica. Visión Occidental/Tradicional/ Papel De La Mujer Indígena“

Claudia Leonor López Garces | Museo Paraense Emilio Goeildi (Brasil) **(Participation by zoom)**

Antonio Jiménez-Luque | Universidad de San Diego (USA) **(Participation by zoom)**

Hernando Bernal Zamudio | Biometric Sciences Institute, AMASSUNU upv-ehu, experto HwN ONU - Biomimetic Sciences Institute (BSI) y experto en Ciencia Holística del programa HwN de la ONU y Biomimesis

María Eugenia Santillana Ceballo | Facultad de Bioética de la Universidad de Anahuac (México) **(Participation by zoom)**

16:30 - 17:00

“SESIÓN 9: COSMOVISIÓN BIOCÉNTRICA FRENTE A LA ANTROPOCÉNTRICA“

Vanessa Hasson de Oliveira | Fundación MAPAS (Brasil) **(Participation by zoom)**

Tirso Antonio Gonzales Vega | Universidad del Pacífico (Perú) **(Participation by zoom)**

Fernando Antonio Carvahlo Dantas | Experto en Derechos de la Naturaleza Derechos de la Naturaleza del Programa Harmony with Nature, HwN, de la Organización de las Naciones Unidas, ONU **(Participation by zoom)**

M^a Estrella Sánchez Corchero | UPV/EHU - Profesora y Experta en Economía Ecológica del programa HwN de la ONU y en Innovación Educativa por las universidades del País Vasco, Europea de Madrid e Isabel I de Castilla

08-09-2022

09:00 - 10:00

“SESIÓN 10: ESTADO DE LA CUESTIÓN EN ASIA“

Daniel Silva | Universidad Sophia Japón, literatura, espiritualidad sintoísta en Armonía con la Naturaleza **(Participation by zoom)**

Fang Xao | Universidad de Shanghai - Directora del Centro de Estudios Chinos Lu Xun

10:00 - 10:30

“SESIÓN 11: ESTADO DE LA CUESTIÓN EN ÁFRICA“

Maximiliano Fero | Universidad Nacional de Guinea Ecuatorial **(Participation by zoom)**

Hernando Bernal Zamudio | del Programa Harmony with Nature de las Naciones Unidas y de la Asociación Internacional de Economía Ecológica



10:30 - 11:00	Break
	<hr/> BLOQUE V: INNOVACIÓN <hr/>
11:00 - 11:30	“SESIÓN 12: ECONOMÍA CIRCULAR y ECONOMÍA ECOLÓGICA” Unai Tamayo Orbegozo UPV/EHU - Economía Circular y Consumo Responsable M^a Estrella Sánchez Corchero UPV/EHU - Profesora y Experta en Economía Ecológica del programa HwN de la ONU y en Innovación Educativa por las universidades del País Vasco, Europea de Madrid e Isabel I de Castilla Andrés-Fernando Herrera Herrera UPV/EHU - Hegoa
11:30 - 12:00	Round table: “SESIÓN 13: EXPERTOS DEL PROGRAMA HwN DE LA ONU.” Chaitanya Hiremath SEALOEarth founder (Special Consultative Status with the United Nations ECOSOC) (Moderator)
12:00 - 13:00	“SESIÓN 14: INNOVACIÓN, DESARROLLO TECNOLÓGICO Y EMPRENDIMIENTO BIOINSPIRADO” Luisa Cajicá Carvalho Instituto Politécnico Satubal (Portugal) (Participation by zoom) Jesús Hamilton Ortíz Monedero Oscar Alberto Arenales Vergara Universidad de la Marina de Tokio (Japón) (Participation by zoom)
13:00 - 15:00	Break
	<hr/> BLOQUE VI: CONFERENCIAS PLENARIAS (con Expertos ONU) <hr/>
15:00 - 15:30	“SESIÓN 15: CONFERENCIA 1: ECONOMÍA ECOLÓGICA.” Roldan Moradian Presidente de la Asociación Internacional de Economía Ecológica y Universidad Federal Fluminense, Brasil) (Participation by zoom) Moderadora: M^a Estrella Sánchez Corchero UPV/EHU - Profesora y Experta en Economía Ecológica del programa HwN de la ONU e Innovación Educativa, profesora de la Universidad Europea de Madrid e Isabel I de Castilla
	<hr/> MESA REDONDA: Expertos ONU <hr/>
15:30 - 16:00	“SESIÓN 16: CONFERENCIA 2: BIOMIMESIS” Gerola Alessi Universidad de Wageningen, Países Bajos (Participation by zoom) Moderador: Hernando Bernal Zamudio del Programa Harmony with Nature de las Naciones Unidas y de la Asociación Internacional de Economía Ecológica
	<hr/> BLOQUE IV: INTERNACIONAL II <hr/>
16:00 - 16:30	“SESIÓN 17”



Craig Kauffman | University of Oregon **(Participation by zoom)**
Pamela Martin | Coastal Carolina University **(Participation by zoom)**
Inés Benadda | Predidneta del International Observatory on the Rights of Nature, Canadá **(Participation by zoom)**

Modera:

Chaitanya Hiremath | SEALOEarth founder (Special Consultative Status with the United Nations ECOSOC)

BLOQUE VII: CIENCIA TRANSDISCIPLINAR Y HOLISTICA

16:30 - 17:00

“SESIÓN 18: BIOMEDICINA“

Iker Badiola Etxaburu | UPV/EHU
Xochitl Siorda Vasquez | Universidad Veracruzana (México) **(Participation by zoom)**
Pedro Matias Carriere | Universidad Nacional del Sur, Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) y BIOMIMICRY Argentina **(Participation by zoom)**

17:00 - 17:30

“SESIÓN 19: LIDERAZGO BIOMIMÉTICO“

José Claudio Rocha | Universidad Estadual de Bahia (Brasil) **(Participation by zoom)**
Iván Dávila Velandia | Universidad Nacional de Colombia **(Participation by zoom)**
Gloria Marlene Díaz Muñoz | Universidad Externado de Colombia **(Participation by zoom)**
Noemi Peña Miguel | UPV/EHU

17:30 - 18:00

“SESIÓN 20: LA ARQUITECTURA BIOINSPIRADA “

Daniel Edgardo Vedoya | Universidad Nacional del Nordeste de Argentina **(Participation by zoom)**
David Sánchez Ruano | Instituto Tecnológico de Monterrey (México) **(Participation by zoom)**
Caterina Mele | Politecnico de Turin (Italia) **(Participation by zoom)**
Alex Mitxelena Etxeberria | UPV/EHU

18:00 - 18:15

Closing session

Clausura

Carmen SanFrancisco | Biomimetic Science Institute, BSI - Directora
Andrea Fabiana Somoza-Norton | California Polytechnic State University (EEUU) **(Participation by zoom)**
Josep Antoni Gari | Programa de las Naciones Unidas las Naciones Unidas para el Desarrollo (PNUD) **(Participation by zoom)**

Directors



M^a Estrella Sánchez Corchero

UPV-EHU, experta en Economía Ecológica del programa Harmony with Nature, HwN, de la Organización de Naciones Unidas, ONU

Graduate in Economics and Business Studies, specialising in International and Development Economics from the University of the Basque Country. PhD in Economic Anthropology, MA in Chinese Studies, MA in Economic Analysis and BA in Economics and Business Studies, lecturer at the Universities of the Basque Country, European University of Madrid and Isabel I of Castile. Member of Harmony With Nature of the United Nations, as well as of the International Association of Ecological Economics. She is also a member of the Governing Board of the Basque Association of Economists and of the Teaching and Researchers, Urban Planning and Strategic Plan Commissions. He received the 2nd prize for business creation organised by the Basque Government Department of Economy in 1997. I have a PL2 in Basque which allows me to teach in Basque.



Hernando Bernal Zamudio

UPV/EHU, experto en Ciencia Holística del Programa HwN de la ONU

Agrologo, Maestría en Desarrollo Rural, PhD. Estudio de Desarrollo y Cooperación Internacional. PhD(c) Agroecología, Sociología y Desarrollo Rural Sostenible. Presidente de la Asociación Amassunu para Impulso de la Interculturalidad y la Biomimesis. Cofundador de la Red Internacional, Interuniversitaria e Interinstitucional de Estudio de Biomimesis. Profesor de la Maestría en Medio Ambiente, Sostenibilidad y los Objetivos de Desarrollo Sostenible (ODS), Cátedra Unesco de Desarrollo Sostenible y Educación Ambiental, Universidad del País Vasco. Profesor de la Maestría en Agroecología, soberanía alimentaria, agricultura urbana y cooperación al desarrollo rural. Universidad de la Laguna. Coautor del documento para la UNESCO, BM, PNUD, FAO, FIDA, UNICEF, IICA: “Análisis de la evolución de los sistemas del conocimiento, ciencia y tecnología en América Latina y el Caribe. Su efectividad e impacto”. Capítulo 2. Sub Global Reports.

Teachers



Gerola Alessi

Degree in philosophy from the University of Trento (Italy) and in philosophy and ethics of technology from the University of Twente. PhD candidate in Ethics of Technology at the Philosophy Group of Wageningen University. His research is exploring the potential and limitations of biomimicry as a sustainable design principle. The project is part of the NWO Gravitation Ethics of Socially Disruptive Technologies (ESDiT) programme of the four technical universities in the Netherlands. It is interested in intercultural perspectives in philosophy, ethics and technology. As part of the European Network of Japanese Philosophy (ENOJP), it explores how East Asian thinkers and concepts can help broaden our perspectives on technology, Nature and society.



Ibone Ametzaga Arregi

UPV/EHU

Profesora agregada del Área de Ecología de la Universidad del País Vasco (UPV/EHU). Ha sido profesora en la Universidad Pública de Navarra y en la Universidad de Vigo y ha trabajado en el centro de investigación NEIKER (2002-2003). Ha sido presidenta de la sección de ciencias naturales de Eusko Ikaskunta/Sociedad de Estudios Vascos (1995-2006). Ha realizado estancias en diversas universidades internacionales como University of Aberdeen, el Imperial College of Science and Technology, University of California at Santa Barbara o la University of Oxford. Ha dirigido varias Tesis doctorales, de Grado y de Máster y ha publicado más de 50 artículos en revistas científicas, libros y capítulos de libro. Su temática de investigación se centra en el estudio de la biodiversidad, principalmente en ecosistemas terrestres, con el objetivo de evaluar los impactos sobre la misma y desarrollar actuaciones para mejorar su situación.



Oscar Alberto Arenales Vergara

Architect, Master in Aerospace Architecture, Ph.D, in Application of Space Technologies. Currently researcher at the Haute École d'art et Design-Genève (Italy) and Visiting Professor at Tokyo University of the Navy (TUMSAT), Japan. In 1984 he started working on extreme climate housing in Sweden; in 1987 he participated in the study of the European Orbital Station and in 1989 he worked on the construction of the European ship Halios. Then in 1990 he went to the United States to work for NASA on joint research with former astronaut Buzz Aldrin (Apollo 11) on the International Orbital Station and another on lunar bases. Back in France he created the Experimental Laboratory for Architectural Research.



Jorge Arevalo Turrillas

Nacido en San Sebastián - País Vasco. Director General de Formación Profesional del Gobierno Vasco entre los años 1995 y 2001. Viceconsejero de Formación Profesional y Aprendizaje Permanente del Gobierno Vasco desde Octubre de 2001, hasta Octubre de 2005. Asesor del Director Gral. Formación Profesional del Ministerio de Educación entre 2008 y 2011. Colaboró con la Comisión de Economía y Competitividad del Senado de España en 2012 y también con la Comisión de Educación del Congreso en temas de Educación en 2013. Viceconsejero de Formación Profesional del Gobierno Vasco desde Diciembre de 2012 hasta la actualidad. Redactor y ponente de la Ley Vasca de Formación Profesional. Responsable de cuatro de los cinco planes de Formación Profesional aprobados por el Gobierno Vasco (1997, 2004, 2014, 2017). Redactor de la Agenda Estratégica de Formación Profesional del País Vasco (2013). Miembro del Consejo Gral de Formación Profesional. Vocal Titular en el Consejo de Administración Lanbide





Iker Badiola Etxaburu

EHU/UPV

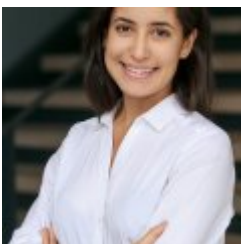
Iker Badiola (Ondarroa, Bizkaia, 1978) is a professor and researcher at the University of the Basque Country / Euskal Herriko Unibertsitatea (UPV/EHU), Faculty of Medicine and Nursing. During his professional career he has been dedicated to researching the cellular and molecular basis of liver metastasis. He is the author of about twenty scientific articles and a patent, has directed three doctoral theses, and has written four books on histology, aimed at health professionals. He has spent time at the University of Copenhagen and the University of Toronto. He is a founding partner of the biotechnology company INNOPROT SL. In 2006 he was awarded the prize for the best young researcher at the 13th ISCHS Congress held in Niigata (Japan). In 2019 he received the Ernesto Viéitez prize, awarded by the Royal Academy of Galician Sciences, together with a team of researchers from different disciplines, for developing an antitumor therapy.



Jorge Becerra Orcajo

INGEM ENERGIA

He has been working in the engineering sector since 2006 and has accumulated more than 25 years of experience in positions of responsibility in the management of companies in the industrial and services sector. He holds a Master's degree in Business Management and Administration from the UPV-EHU, a degree in Information Sciences and is a technical specialist in marketing. Manager and founder of E.S.C.O. Ingem, companies dedicated to energy efficiency engineering, and to the development, execution and financing of energy efficiency and renewable energy projects. Ingem develops its work in Spain and South America through its headquarters in Chile. Since 2009 he has been involved in the development of cooperation projects within the Committee of the NGO Amassunu and as a member of the NGO CERAI (Centre for Rural Studies and International Agriculture).



Inés Benadda

Inès Benadda, Vicepresident of the International Observatory for the Rights of Nature (IORN) is a jurist (LL.B., University of Montreal, 2020) and is currently completing her articling with Me et Pre. Yenny

Vega Cardenas to be member of the Quebec's Bar Association in Canada. She also works and collaborates for Harmony with Nature chapter of the UN. Recipient of the Lieutenant Governor of Canada Medal for Youth in 2017 for her remarkable commitment, her actions during her academic career in the aboriginal law, environmental law and human rights committees show her keen interest in the environmental cause. Inès deeply believes that there is no better time than now to act on the protection of Nature, and it is in this sense that she works for the International Observatory for the Rights of Nature (IORN) since 2018.



Jesús María Blanco Ilzarbe

Professor of the Department of Energy Engineering of the UPV/EHU. He holds a PhD in Industrial Engineering (1996). Msc. Cranfield Univ. (UK), in marine turbines where he is a visiting professor and made 3 research stays with MINECO grant. He has supervised 5 theses and currently has 7 doctoral students, 42 JCR, 59 international research papers and 27 teaching papers, co-author of 2 patents, 28 book chapters and 7 books. He has led more than 30 research projects as well as transfer contracts to the company in computational simulation (CFD). Regular referee of several JCR journals. 2 UNED awards (energy) and Academy of Sciences of Cuba 2016. Organizer of international congress (CMN'2013), member of scientific committee of several international congresses. Member of the Spanish Society of Numerical Methods in Engineering. Coordinator of Msc ERASMUS MUNDUS in offshore EERR (REM and REM+). IP research group GV (IT1314-19) in EERR.



Susana Borrás Pentinat

Profesora de Derecho Internacional Público y Relaciones Internacionales, Postdoctoral Marie Skłodowska-Curie Fellow (H2020-MSCA-IF-2020) nº 101031252 CLIMOVE PROJECT, Università degli Studi di Macerata (Italy). Investigadora del Centro de Estudios de Derecho Ambiental de Tarragona-URV-España.



Luisa Cajicá Carvalho



Coordinating Professor at the Department of Economics and Management of the School of Business Sciences of the Polytechnic Institute of Setúbal where she coordinates the Master's Degree in Business Sciences. Visiting Professor at the University of São Paulo - Brazil, teaching in the Doctorate Programme in Organizational Management. PhD in Management from the University of Évora (2008). Researcher at the Centre for Advanced Training Studies in Management and Economics (CEFAGE) at the University of Évora, she teaches and researches in the field of entrepreneurship, innovation and sustainability. She is the author of more than 20 national and international books and has several publications in national and international journals. She is also a member of several national and international research projects. She is a member of several scientific committees of international conferences, journals and publications.



Pedro Matias Carriere

Degree in Biological Sciences. PhD in Biology. National University of the South, Argentina. Higher and university lecturer in the area of medical sciences. He has carried out research studies on cellular and molecular mechanisms in the progression of colorectal cancer at the colorectal cancer at the National Council for Scientific and Technical Research (CONICET). (CONICET). She is currently investigating the effect of new probiotic strains in the context of this disease of this disease. Since 2014 she has given lectures, courses and workshops on the Biomimicry as a biologist at the design table with architects, designers and engineers in Biomimicry, designers and engineers at Biomimicry Argentina.



Fernando Antonio Carvahlo Dantas

Licenciado en Derecho, Doctorado y Maestría en Derecho de las Relaciones Sociales de la Universidad Federal de Paraná. Profesor de Teoría del Derecho en la Universidad Federal de Goiás. Profesor del Programa de Posgrado en Derecho Agrario de la Universidad Federal de Goiás. Profesor del Programa de Posgrado en Derecho Agroambiental de la Universidad Federal de Mato Grosso y del Programa de Posgrado en Ciencias de la Sociedad de la Universidad Federal de West Para. Fue director del Centro de Estudios Sociales de América Latina (CESAL). Miembro del Consejo Científico del Observatorio Brasileño de la Justicia y Miembro especialista de la Plataforma de Armonía con la Naturaleza de las Naciones Unidas (ONU). Fue profesor invitado en el Programa de Doctorado en Derecho de la Facultad de Derecho de la Universidad de Sevilla y en el Programa de Doctorado en Derechos Humanos y Desarrollo de la Universidad Pablo de Olavide en Sevilla, España.





Javier Collado Ruano

Professor of Philosophy of Education and Director of Educational Innovation at the National University of Education (UNAE) in Ecuador. Historian, educator, philosopher, journalist, filmmaker and environmentalist. PhD in Knowledge Dissemination from UFBA (Brazil) and PhD in Philosophy from USAL (Spain). He holds a Master's degree in Sociology of Education and a degree in History, specialising in International Relations and Archaeology from the University of Palermo (Italy). He is the founder and director of the film series "The Lost Art of Education". He is also an academic member of CIRET (France) and FLACSO (Spain), member of the editorial board of the Journal of the International Society for Philosophy and Cosmology (Ukraine), member of the Advisory Board of Shreeranya Renewable India and education advisor for Human Dignity and Humiliation Studies (USA).



Armando Contreras Hernández

Biologist, Master in Rural Development, PhD. Agroecology and Sustainable Rural Development. Currently Director General of the Institute of Ecology of Mexico (INECOL). He has participated in 15 research projects funded by national and international institutions, and in 5 environmental impact studies. Research stays at: Pierre and Maria Curi University, Paris VII and the Institut Francais de Recherche Scientifique pour le Developpement en Cooperation, ORSTOM (France). At the Universities of Cordoba, Alicante, Internacional de Andalucía, Santa María la Rábida (Spain). At the University of Florianópolis (Brazil). He has collaborated in projects with Mexican universities in Michoacán, Oaxaca, Tamaulipas, Veracruz, Aguascalientes and at UNAM and UAM-Xochimilco in Mexico City. He is a professor of the Postgraduate course in the Natural Resources Management strength of the Institute of Ecology, A.C. He has supervised 6 bachelor's theses, 6 master's theses and 1 doctoral thesis. He is currently supervising 2 undergraduate and 3 postgraduate students. He was a member of the National Executive Committee of the Mexican Association of Rural Studies AMER 2004-2007.



Iván Dávila Velandia

Industrial designer from the National University of Colombia and later obtained my degree as Master in Business innovation in the Netherlands; Through design and innovation I want to provide competitive tools to companies and entrepreneurs to build better organizations, products and more sustainable services, thinking about the environment and climate change. Currently I am the specialist consultant of Innovation and Technology for the Colombian Strategy for Low Carbon Development led by Fondo



Acción together with the Ministry of Environment, for more than 10 years I have worked as a consultant in Strategic Design, Entrepreneurship and Innovation for different consulting firms, public and private organizations; I have been a professor for 5 years in postgraduate courses of Design and Product Development at the National University of Colombia.



Gloria Marlene Díaz Muñoz

Business Administrator, specialist in project formulation and evaluation, Master in Business Creation and Management and Doctor in Business Sciences. Currently, Director of the Entrepreneurship and Innovation Unit Emprende+ of the Universidad Externado de Colombia and researcher in Entrepreneurship and Innovation Management. She has been an entrepreneur and CEO in the manufacturing and services industry. She shares her experience as a member of SME boards, mentor and advisor with more than 18 years of experience. She accompanies entrepreneurs in management innovation, process innovation and product innovation. She is the creator of the Entrepreneurship and Innovation Unit Emprende+, is a member of the Entrepreneurship University Network REUNE-ASCUN, REUNE Cundinamarca node, Regional Network of Entrepreneurship, International Network of Biomimicry, International Node of Entrepreneurship and Business Innovation Biomimetic and participates in the entrepreneurship ecosystem.



Daniel Edgardo Vedoya

Argentine Architect (Province of Corrientes, Argentina). Doctor in Art (2012). Undergraduate and Postgraduate Professor. Professor of CONSTRUCTIONS II and STRUCTURES III, Architecture, Faculty of Architecture and Urbanism (FAU), Universidad Nacional del Nordeste (UNNE). Researcher categorized "I" (CIN). Former Dean of the FAU-UNNE (1986-1990 and 1996-2000). Co-responsible for International Research and Development Projects. Director of R&D Projects, Master's and Doctoral Thesis, Interns and Scholarship Holders. Director of ITDAHU, at FAU-UNNE. Lecturer in Congresses, Seminars and Scientific Meetings. Author of books, book articles and articles in specialized journals. Peer evaluator of CONEAU for undergraduate and graduate courses in Argentina. Founding Member of the Regional Network of Architectural Technology, of Faculties and Schools of Architecture of Latin America. Active Member of the Argentine Scientific Society.



Rafael Leonardo Espinosa Paredes

Mechanical and Electrical Engineer, Master of Science in Renewable Energies and Energy Efficiency, Ph.D(c). 50 years of teaching at the Faculty of Mechanical Engineering of the National University of Engineering of Lima (Peru). Researcher of the following projects and lines of action: 1. Methodological Research Project. IMPROVING, INCREASING AND FACILITATING ACCESS TO EDUCATION AND TRAINING IN RENEWABLE ENERGIES IN LATIN AMERICA; 2). Applied Research Project: "Energy and technical-economic evaluation of renewable electricity generation with new photovoltaic technologies in different climatic zones of Peru"; 3). Applied Research Project: INTEGRATION OF DC MICROREDES FOR ENERGY CONSUMPTION OPTIMISATION IN SMART BUILDINGS; 4). Applied Research Project: INNOVATIVE ECONOMIC FRIENDLY AND ENERGY EFFICIENT SOLUTIONS BASED ON SOLAR PANELS, BATTERIES AND LED LiFi LUMINAIRES FOR URBAN AND/OR RURAL APPLICATIONS; 5). Improve 3 schools in the district of Yanauquihua, Condesuyos -- Arequipa with resilience and thermal resistance to frost, applying innovative and forward-looking sustainable technology.



Maximiliano Fero

Ph.D in Biology and Msc Conservation Biology and Msc Management and Conservation. He is currently a researcher attached to the Department of Management and Conservation of the Faculty of Environment and Director of the Research Directorate of the National University of Equatorial Guinea. Participation in the project Flora de Guinea Ecuatorial, 3 (CGL2009-07405), Real Jardín Botánico de Madrid (CSIC), Ministerio de Ciencia e Innovación, Madrid; Studies on primates and other vertebrates from Bioko Island, Equatorial Guinea, in the framework of the Biodiversity Protection Program (BBPP, www.bioko.org). Publications in prestigious journals: American Journal of Primatology 7; Hytotaxa; Flora de Guinea Ecuatorial; European Society for the study of Human Evolution. Second palaeoanthropological expedition to Equatorial Guinea. The Muni River estuary. Naturally 21:26-32. Has supervised 15 undergraduate theses. Member of Equatorial Guinean Delegation at COP25 Chile-Madrid; 2019. Reviewer of the First National Communication of Equatorial Guinea to the United Nations Convention on Climate Change; 2017-2018. Team Member of Equatorial Guinea REDD+ Coordination.



Carlos García Gáfaro

PhD in Engineering from the Doctoral Programme in Energy Efficiency and Sustainability in Engineering and Architecture, an interuniversity doctoral programme involving the University of the Basque Country, the University of Vigo and the University of Burgos. Researcher and technician of the Thermal Area of the Buildings Quality Control Laboratory of the Basque Government (AT-LCCE), which is managed by the ENEDI group of the University of the Basque Country UPV/EHU. Dr. García-Gáfaró is specialized in thermal characterization of building elements and energy efficiency in buildings in general, including ventilation and indoor air quality topics. He has 7 articles in indexed international publications, more than 40 participations in national and international congresses, two articles in books and talks at international events.



Josep Antoni Gari

Is a political ecologist and a UN professional. He works on international cooperation and diplomacy for rural & territorial sustainability. He has a dual background in sciences and philosophy, with a doctorate from the University of Oxford. His professional journey in the UN has been supplemented with stints in academia and the arts.



Tirso Antonio Gonzales Vega

PhD in Sociology, University of Wisconsin, Madison. Postdoctoral studies (UC Davis, UC Berkeley). Teaching and research in Indigenous Studies at UBC-Okanagan, Canada. De-professionalised researcher. Member of the Think-Tank Andean Science-University of the Pacific. His accumulated work experience as an academic, international consultant and activist has allowed him to work on Indigenous Peoples and food issues. He has participated in numerous intergovernmental science and policy meetings. He is currently working on "Buen Vivir y Vivir Bien" related to the Intercultural Management of the Territory of the Andean Region, and the Encounters and Disencounters between the ontological approaches of Duality/Binary and Non-Duality/Non-Binary.



Vanessa Hasson de Oliveira

PhD in Diffuse and Collective Rights from the Pontifical Catholic University of São Paulo (PUC-SP), Brazil. Post-doctoral researcher in Public Policies for Good Living. Specialist and Master in Environmental Law. Expert of the United Nations Harmony with Nature Platform. President of OSCIP MAPAS



Andrés-Fernando Herrera Herrera

UPV/EHU (Estudiante de Doctorado)

D. in Development Studies from the Hegoa Institute, University of the Basque Country (UPV/EHU), and holds a Master's degree in Globalisation and Development from the same institution, a Master's degree in Economic Development and Sustainability from Pablo de Olavide University and a Master's degree in Applied Economic Analysis from the University of Alcalá. He holds a BA in Economics from the Universidad del Valle (Cali, Colombia). His doctoral research focused on a critical analysis of Sustainable Human Development, considering on the one hand the capabilities approach and human development and, on the other hand, the perspectives of sustainability, especially the approaches from Ecological Economics on strong sustainability. His current research topics include the analysis of development theories, discourses and practices, the analysis of the relationships between socio-economic and ecological systems, sustainability, social welfare measures, international development cooperation, among others. He works at the Hegoa Institute (UPV/EHU) and is also the technical coordinator of the Spanish Network of Development Studies (REEDES).



Chaitanya Hiremath

SEALOEarth / Founder and President / USA

Dr. Chaitanya Hiremath is a distinguished drug discovery scientist, educator, advisor, mentor, reviewer, founder, and inventor, specializing in Bioinformatics and Cheminformatics. He has a Master's degree in Solid State Physics and a PhD in Molecular Biophysics. He was awarded the Gold Medal in Physics and



the State Award in Science. He was a senior fellow at Harvard Medical School and a visiting scientist at Massachusetts Institute of Technology. As a former associate-professor of bioinformatics, he has served as a Chief-Coordinator of Bioinformatics Program at a national level, managing all aspects of this program across five centers. He has published numerous research publications. His patented APOD methodology for drug discovery has proved beneficial in the prioritization analysis of safety profiles of COVID-19 drugs. His science education, open-access peer-reviewed paper on the BIIG problem-solving method that he developed to enhance the students' learning experience in science has over 17000 downloads worldwide. Dr. Hiremath has been granted a patent for the design of the World Flag based on the scientific tree of life. He has given several invited talks at international conferences and meetings including the United Nations.



Urko Izquierdo Ereño

UPV/EHU

Chemical Engineer and Doctor in Chemical Engineering with International Mention, Cum Laude qualification and extraordinary prize for the best Doctoral Thesis in the area of Engineering by the UPV/EHU. He is currently a lecturer in the Department of Energy Engineering at the Bilbao School of Engineering. He has professional experience in cement and paper production companies, as well as in biofuel and hydrogen production companies. He currently carries out his research work as a member of the consolidated Basque Government Research Group called ITSAS-REM and focuses his research activity mainly in the area of marine renewable energies.



Antonio Jiménez-Luque

Historian, MA in Latin American Studies, MA in Globalisation, Development and Cooperation, MA in International Studies and PhD in Leadership Studies. He is currently Assistant Professor of Leadership at the University of San Diego (USA). He belongs to the group of Conflicts, Politics and International Law at the University of Barcelona (UB) (COPOLDER-UB). Until 2015-2017 she was Associate Professor of Intercultural Research for the Associate Academic Vice President for Diversity, Equity and Inclusion and Chief Diversity Officer at Gonzaga University (GU) in the United States. From 2004 to 2013 Coordinator of International Development Cooperation and Adjunct Professor of International Studies University of Barcelona (Solidarity Foundation - UB), Spain. With six books, 8 scientific articles in peer-reviewed journals, 11 book chapters, eight cooperation projects. Demonstrated capacity for excellence in



research, obtaining external funding and establishing collaborative projects with universities, government agencies, companies and NGOs. Active research and publication record and strong leadership qualities applied to university service and execution of administrative responsibilities.



Craig Kauffman

PhD. is currently Associate Professor of Political Science and Environmental Studies at the University of Oregon. His research and teaching focus on environmental policy, ecological law, the rights of Nature and sustainable development. He is the author of numerous articles and two books on these topics. In 2021 Dr. Kauffman received a grant from the Rockefeller Brothers Fund to create an open-access, interactive, online platform that tracks environmental law initiatives around the world and provides related information and resources for policymakers, researchers, lawyers, and activists. The rapid growth in the number of green law initiatives, as well as their varied legal and cultural expressions, presents a challenge to those seeking to promote more ecocentric legal and governance systems to help enact the change needed to address the looming environmental crises.



Vania Lindsay Téllez

Architect, currently teaching in the transdisciplinary field of urban ecosystem management at the Universidad Mayor de San Andrés, Bolivia. For the last five years she has been working in academia on urban sustainability projects in the Andes, especially in the cities of La Paz and El Alto in Bolivia. The aim is to promote food security, based on agroecology, and to implement renewable energies in architectural projects. And since 2015, it has had the major challenge of creating a prototype of sustainable urban infrastructure, to make it resilient and bio-inspired. This project is now accessible to all communities in the city of La Paz, promoting climate action, encouraging sustainable living and inspiring communities for ecological transition. From this experience, the project "El Biotopo, I" was created and developed and achieved its objectives in mid-2019, from raising awareness in society about climate change, sustainable living and food security.



Teresa López de Armentia Iturralde

Dr. in Chemistry from the University of Navarra, specializing in environmental technologies. She works in the ONGD Zabalketa in the management of Development Cooperation projects. She works in the area of Education for Social Transformation developing activities and educational proposals on sustainable human development in vocational training centers and universities in the Basque Country. She teaches in the Master of Sustainable Development and SDGs of the Unesco Chair. As an environmental specialist, she coordinates, through the Global Sustainable Development Network, a line of work focused on the search for innovative solutions based on nature to meet the needs of the most vulnerable population, strengthen their capacities and contribute to the restoration of degraded ecosystems (the fog water harvesting technique is being used in different rural areas of Peru and Bolivia). She actively participates in the Ri3 Biomimicry Network. She is a promoter of Redmujeres.net



Claudia Leonor López Garces

Anthropologist, Master in Andean Anthropology at the Latin American Faculty of Social Sciences (FLACSO); PhD in Anthropology of Latin America and the Caribbean. Researcher at the Museu Paraense Emílio Goeldi (Brazil). Collaborating professor at the Programa de Pós-Graduação em Sociologia e Antropologia (PPGSA) of the Universidade Federal do Pará (UFPA). Curator of the Coleção Etnográfica Reserva Técnica Curt Nimuendaju do Museu Goeldi (2011-2018). Currently working in Indigenous Ethnology, her main field of professional activity, conducting research on topics such as ethnicity and nationality, anthropology in frontiers, indigenist policies, traditional knowledge, indigenous agrobiodiversity, ethnographic collections. Organiser of three books. Author of several articles and book chapters on topics related to the Yanacunas and Quillacingas indigenous peoples in the Colombian Andes, the Tikuna indigenous peoples of the triple border Brazil-Colombia-Peru, the Karipuna of the border Brazil-French Guyana. The latest research is being carried out with the Mebêngôkre-Kayapó and Ka'apor, in the Brazilian Amazon, addressing the themes of indigenous peoples and the environment; indigenous peoples and ethnographic collections.



Pamela Martin

PhD, is Professor of Political Science and HTC Honors Fellow at Coastal Carolina University in Conway, South Carolina, where she teaches courses in International Relations, Environmental Policy, Sustainability and Coastal Resilience. She is currently the Executive Director of the United Nations University on Education for Sustainable Development at Georgetown and the United Nations SDG Initiative at home. She has published numerous articles and books on global environmental policy, energy and sustainable development. Her current book with MIT Press, entitled *The Politics of Rights of Nature: Strategies for Building a More Sustainable Future*, tells the stories of working with communities around the world to create new tools for sustainable development that reconnect us to each other and to Nature.



Caterina Mele

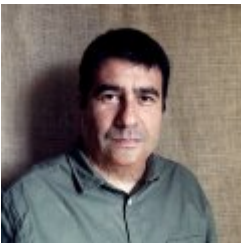
Architect, Ph.D, Associate Professor, formerly member of the Academic Senate, now member of the Board of Trustees of Politecnico di Torino and of the Green Team of the University. Her studies and research focus mainly on urban and building technology aspects, the enhancement of historical and modern built heritage, and sustainability from an interdisciplinary perspective. Since 1992 she has participated in several national and international research projects on these topics. Recently, she has been Scientific Coordinator of the international project (2017-18) "Technologies for Sustainable Construction: the Biomimetic Approach, in collaboration with the ITDhau Institute of the National University of the Northeast - UNNE (Corrientes, Ar.), Scientific Coordinator of the research project on "Climate Design Principles in the Work of the Masters of the Modern Movement (2019-21), Interdepartmental Centre Responsible, Risk, Resilience Center of the Politecnico di Torino, of which she is a member of the Board of Directors. He is a member of the International and Inter-University Network on Biomimicry; Since 2018, he is also a Visiting External Researcher at the Technological Research Group of the ITDAHU Institute of the UNNE.



Alex Mitxelena Etxeberria

ETS de Arquitectura. UPV/EHU

Architect (2002) and doctor (2014) by the University of the Basque Country (UPV/EHU) and Professor of Architectural Projects since 2004 in the Department of Architecture at the University of the Basque Country (UPV/EHU). Deputy Director of Quality and Educational Innovation since 2017, Coordinator of the Degree in Fundamentals of Architecture since 2015 and Academic Secretary (2016-2017) at the School of Architecture of the University of the Basque Country (UPV/EHU). I am part of the research group zak (www.zak.eus) since 2018. Interdisciplinary group of the UPV/EHU that studies the relationship between care and architectural design in the housing environment and that takes into account human needs and the essentially communitarian nature of human beings and that promotes the creation of spaces of coexistence. Professional studio since 2003, whose professional career is mainly focused on the development of housing projects and new ways of living.



Roldan Moradian

PhD in Ecological Economics, he is currently the Director of the International Association for Ecological Economics. His transdisciplinary academic background and extensive management experience allow for synergies between knowledge generation, capacity building and practice-oriented activities at the crossroads of environmental science and development studies. He has extensive experience in international research, capacity building, teaching and cooperation in higher education on topics dealing with the interface between development, governance and the environment. He has more than 80 international publications, as well as outstanding fundraising and management skills in research and research and capacity building activities. He has been involved, as coordinator or co-investigator, in a large number of international and multidisciplinary projects in some 20 countries.



Jesús Hamilton Ortíz Monedero

Mathematician, DEA in telematic engineering, Ph.D. in Computer Technology Advancement and another Ph.D. in Computer Science & Telecommunications. Professional with extensive experience as: entrepreneur, editor, teacher, reviewer and researcher in Computer Science, Telecommunications and Mathematics. International reviewer of recognized journals (IEE Access, Elsevier, IAJIT, etc.), expert editor in Mobile Networks, Computer Technology and Algorithms with more than 300.000 downloads. Editor of more than 100 articles and 8 books. Director of undergraduate and postgraduate thesis in the programmes and Systems. Has been working on topics of Information Technologies inspired by biological systems: C E O F O u n d e r A n d E d i t o r I E E E E E E E A C C C E S S S; Closemobile R&D / 2012 - 2016, 2018-2021. Development and management of geolocation research, tracking integrate technologies and unmanned aerial vehicle solution for SMEs. Project management and ad-hoc solutions to implement technological solutions for companies. From 2020 to present, P R O F E S S O R R E S E A R C H E R L E A D E R Universidad Abierta y a Distancia (UNAD). Currently Professor-Researcher in GISDETEC group, leader in industry 4.0.



Bonifacio Pedraza

Associate Professor at the Complutense University of Madrid (UCM), Department of Educational Studies. COLLABORATING PROFESSOR at Universidad Europea de Madrid (UEM) and Universidad Internacional Isabel I, in Master's Degree in Teacher Training (specialising in FOL). TRAINING AND EMPLOYMENT TECHNICIAN at the State Foundation for Employment Training (FUNDAE). (Technical assistance to Sectoral Joint Commissions. Assessment and management of training plans. Training technician at the Training and Employment Foundation FOREM. (Design of training seminars. Elaboration of didactic guides and design of labour insertion projects for young people). TRAINING AND EMPLOYMENT COORDINATOR at COCEMFE. (Development of Labour Integration Services) and in Proempleo Sociedad Cooperativa (Support in the creation of youth companies. Workshop Schools and Trade Houses projects. Self-build housing project. Training and job placement programme for people with mental disabilities). Its line of research is related to Vocational Training for Employment. With an important production of publications related to vocational training in Europe and Spain.



Noemi Peña Miguel

UPV/EHU

Noemí Peña-Miguel is a professor and researcher at the Faculty of Economics and Business. She holds a PhD in Economics and Business Administration from the University of the Basque Country (UPV/EHU). Extraordinary Doctorate Award from the UPV/EHU. Director of Entrepreneurship and Transfer of the Bizkaia Campus of the University of the Basque Country (UPV/EHU) since January 2018 and responsible for the Zitek program for the promotion of entrepreneurial culture and the creation of innovative and technology-based companies. She has worked as Deputy to Management, and to the Financial and Human Resources management in Grupo Urgatzi, a group of companies in the socio-health sector from 2000 to 2011.



Edilberto de Jesús Pérez Ali Osman

Graduate in Physics and Astronomy. Doctor in Pedagogical Sciences and Professor at the University of Holguín. With 36 years of professional experience, 25 of them dedicated to studies related to energy and environmental energy education. For more than seven years he chaired the Chair of Energy Education at the University of Pedagogical Sciences of Holguín. He has taught postgraduate courses related to Physics, Methodology and experimentation techniques in Natural Sciences. Editor of an electronic bulletin on energy and environment. He has published several publications on the various topics in journals, books, web sites, CD's, and memoirs. He served as Head of the Department of Local Development and Environment; as Dean of the Faculty of Economics and Administration; as Vice-Dean of Research and Postgraduate Studies of the Faculty of Business and Administration of the University of Holguín. He is currently a research professor at the Centre for Organisational Management Studies at the same university.



Manuel Quirós Galdón

Manuel Quirós (Málaga, Spain 1962) graduated (UCM), Master (Stirling) and PhD in Biology (UPM), is pro-environmental conservationist, has published more than 130 scientific and informative papers in national and international journals on sustainability, biomimicry or natural capital. After 10 years as a postdoctoral researcher, he decided to explore new fields and in 2006 he started teaching Sustainability Education in design, fashion, architecture and business universities. He is currently an associate professor at the Instituto de Empresa in Madrid where he is also Director of the Slow Fashion Lab, he also teaches at the University of Navarra, in the Master of the Unesco Chair of the UPV/EHU and at the University of Maryland, School of Business. Self-taught in Biomimicry in 2010 he created the consulting firm Natureinspireus (NIU) pioneer in Spain, focused on natural strategies for companies. Co-founder of Red Ri3 de Biomimesis and Biomimicry Iberia.



José Claudio Rocha

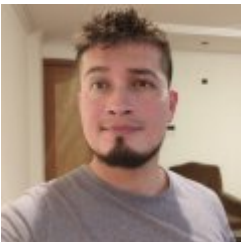
Post-Doctorate in Law from the Federal University of Santa Catarina (UFSC) Centre for Legal Sciences (CCJ), Eirene International Law Research Centre, [2014-2015]; Doctorate in Education from the Federal University of Bahia (UFBA) [2001-2006]; Master's Degree in Education from UFBA [1998- 2001]; Specialist in Public Administration from the State University of Feira de Santana (UEFS) [1997]; Specialist in Research and Postgraduate Project Management at the Federal University of the State of Rio de Janeiro (UNIRIO) [2014]; Specialist in Teaching Ethics, Development and Social Capital at the Institute of Advanced Studies for the Americas (INEAM) of the Organization of American States (OAS) [2005]; Specialist in Human Rights at the University of Brasília / Agência Incidência / Special Secretariat for Human Rights of the Presidency of the Republic (SEDH / PR) [2006]. He is a researcher in the lines of Development and Humanities; Professor at the State University of Bahia (UNEB) is coordinator of the Reference Center for Development and Humanities (CRDH), recognized as a Research Center by Resolution CONSU / UNEB 1.247 / 2016. Author of several books and scientific articles.



Unai Tamayo Orbegozo

UPV/EHU

Founding Partner of the Ri3 Biomimicry Network. PhD in Economics and Business Sciences from the UPV/EHU. Vice-Dean of Euskera, students and employability of the Faculty of CC. Economics and Business Studies of the UPV/EHU. Researcher in Ecological Marketing (Numerous articles on Waste Management, ecological purchasing behavior, environmental management strategies, ...). Actively involved in sustainability tasks (Member of the Environmental Management Committee of the Faculty, active participation in talks on sustainability of the university curriculum, ...). Lecturer in the Master of Sustainable Development and SDGs of the Unesco Chair and the Master in Circular Economy of the UPV/EHU, among others. Coordinator of the Thematic Study on Ecoinnovation in a collaboration project between UPV/EHU and Innobasque. Member of the Jury of the Invisible Film Festival. Member of the Scientific Committee of the AIMPNI International Congress. Used to the use of active learning methodologies.



Cristian Javier Urbina Velasquez

Teacher of mathematics, elementary physics and Innovation and Technology Transfer Specialist. His teaching focuses on sustainability research lines such as Life Cycle Analysis of products and renewable energy systems, and Biomimetics; disciplines applied in projects with a focus on play, memory and cultural debate, bio-inspired prototyping, environmental education, technology-based entrepreneurship, renewable energy; and the characterisation and development of new materials. She has worked in the planning and execution of projects in the areas of: renewable energies, ecological footprint, prototyping, micro enterprises, entrepreneurship in Amazonian communities, knowledge management and the application of strategies for the synergy of University-State-Business. His area of interest is the implementation of programmes and projects based on innovation, entrepreneurship and technology transfer; in the field of academia, scientific-research, and the productive sector, focused on the Amazonian context.



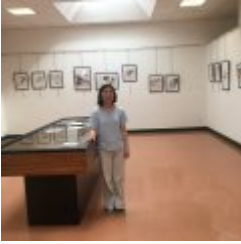
Gustavo Vargas Silva

Dr. Gustavo Vargas-Silva is Associate Chair and Mechanical Engineering Lead of the David L. Hirschfeld Department of Engineering at the Angelo State University in San Angelo, Texas (USA). Dr. Vargas attained his Ph.D. degree at the University of the Basque Country in San Sebastian (Spain). His research interests are Plant biomechanics, Composite materials, and Mechanical behavior of materials. Dr. Vargas has worked as a professor and researcher in several universities in Medellin (Colombia), Zaragoza and San Sebastian (Spain), and San Angelo (Texas). In addition to his experience in academia, he has had industrial experience working as Technical Director of the Research, Technological Development, and Innovation Department at AH Associates Architects in Pamplona (Spain). Dr. Vargas has published twenty scientific papers in JCR international journals, and four book chapters. He has presented more than 65 communications in international conferences, and winning several R&TD&I awards.



Teresa Vicente

Professor of Philosophy of Law, Deputy Director of the Centre for Cooperation and Development Studies (CECODE) at the University of Murcia. Chair of Human Rights and Rights of Nature at the same university. Chair of Nature at the same University. Her teaching and research profile as Professor of Philosophy of Law is "Theory of Justice and Human Rights". In this field, she has specifically researched the new paradigm of Ecological Justice and the Rights of Nature. In this context, she has participated as a speaker at national and international congresses, conferences and seminars, and has been invited to international meetings. She is the author of numerous publications dealing with ecological justice, children's rights, social rights and the rights of nature, among many others. Leader of the Popular Legislative Initiative (ILP) or Popular Legislative Initiative in Murcia that seeks to give legal personality to the Mar Menor and its entire basin. And on 5 April 2022, the Spanish Congress of Deputies voted by an overwhelming majority to speed up the drafting of a law for the Mar Menor to have legal personality, thus becoming the first ecosystem in Europe with its own rights.



Fang Xiao



Estíbaliz Sáez de Cámara Oleaga

Universidad del País Vasco/Euskal Herriko Unibertsitatea (UPV/EHU)

PhD in Environmental Engineering and professor in the 'Environmental Technologies' area in the Department of Chemical Engineering of the Environment at the School of Engineering in Bilbao. Since 2017 she is the Director of Sustainability and Social Commitment at the UPV / EHU. She is in charge of promoting and planning, along with the Vice-Rectorate of Scientific and Social Development and Knowledge Transfer. She is a member of the Academic Committee of the Master Circular Economy: Business Application. Furthermore, she is the vicepresident of the Spanish Network for Sustainable Development (REDS).



Ainhoa Saitua Iribar

UPV/EHU

Doctora en Ciencias Económicas y Empresariales, imparte materias de Contabilidad en grados y Máster oficial en Auditoría de Cuentas y Contabilidad Superior de la Facultad de Economía y Empresa. También ha impartido docencia sobre contabilización del Impuesto sobre Beneficios, Instrumentos Financieros y Patrimonio Neto en cursos de reciclaje profesional organizados por el Colegio Vasco de Economistas. Ha investigado en temas de análisis de la solvencia y rentabilidad de las cooperativas industriales vascas, y de información narrativa sobre personal contenida en los Informes de Gestión de las empresas, incluyendo la perspectiva de género en el lenguaje y la divulgación de información no financiera sobre

las políticas para reducir las desigualdades de género en las empresas. Participa en el proyecto “Competencias Sociales para la Sostenibilidad 2018Peña” de la convocatoria CampusBiziaLab de la UPV/EHU, en el PIE 117 “Profesionalismo Empresarial” 2019/2020.



Inmaculada Zamora Bélver

PhD in Electrical Engineering from the ETSI of Bilbao (1993) and Professor of Electrical Engineering at the University of the Basque Country (2006), Spain. From 2002 to 2015 she has been Head of the Department of Electrical Engineering at the University of the Basque Country. She has participated as a researcher, or principal investigator, in more than 60 R&D projects, related to the area of Electrical Engineering and Renewable Energies, with public and/or private funding, some of them related to hydrogen. She has directed/co-directed 18 doctoral theses, is author/co-author of more than 60 technical articles in national and international journals, more than 150 papers in national and international conferences, as well as several books, book chapters and 6 patents. Participant in several CIGRE and IEEE Working Groups, where application guidelines have been developed. Member of the Jury of the “MIT Innovators under 35” awards - Energy area, in several editions (national and international).



Juan Antonio Sánchez Corchero

SEA EMPRESAS ALAVESAS

President of the Aspasia Group, Managing Director of INSTITUTO EUROPA, President of the Professional Training Commission of CEOE Formación, President of the Spanish Association of Large Training Companies, Vice-president of the Chamber of Commerce, Industry and Services of Alava.



María Mercedes Sánchez

María Mercedes Sánchez has over 20 years of experience working in the field of sustainable development and intergovernmental processes, including the involvement of major groups and other stakeholders through every stage of the implementation process of a variety of UN mandates. He has worked extensively in the areas of research, report writing, project management and communications and has participated in four major UN Conferences on Sustainable Development: UNCED (1992), Rio+5 (1997), Rio+10 (2002), Rio+20 (2012), as well as in the preparations leading to the adoption of the 2030 Agenda adopted by the General Assembly in 2015. Since the inception of the Harmony with Nature Program of the United Nations in 2009, she has been the coordinator and leads the Program to support the principles of Earth jurisprudence in the implementation of the 2030 Agenda among the different stakeholders and, in particular, in reference to the implementation of Sustainable Development Goal 12.



David Sánchez Ruano

PhD in Design, specialist in ecopedagogy, Biomimesis and regenerative design. Lecturer at the School of Art, Architecture and Design of the Tecnológico de Monterrey. He teaches courses on social innovation, biomaterials and sustainability strategies.



Carmen SanFrancisco

With a degree in Business Administration and Management and studies in Occupational Risk Prevention at the UPC, she is an entrepreneur dedicated to the direction and financial management in innovation and audiovisual models, and executive producer also in financial designs. She currently directs the BIOMIMETIC SCIENCES INSTITUTE foundation as General Director and has been dedicated for more than 15 years to the management and coordination of research projects both nationally and internationally within the framework of the Horizon program. Owner of the consulting firm Catalana de Ingeniería, she is Director of Innovation and Design of Large Projects. She participates in networks such as the International Network of Biomimicry Studies (RI-BIOMIMICRY NETWORK) and the International Network of Ecological Ruralities (RIRES).



María Eugenia Santillana Ceballo

Biologist, PhD in Bioethics. Master's degree in Ecosystem Restoration. Researcher attached to the Faculty of Bioethics at the University of Anahuac, Mexico. Laboratory assistant between 2014 and 2015 at Biomimicry, Berlin (Germany). Lecturer in Ecology between 2007 and 2011 at the Institute of Ecology. High school teacher in the subject of Ecology, taught the class in English to sixth semester high school students. Promoter of innovative and creative teaching practices, based on the search for human development and the promotion of proactive societies. Produced a digital book in 2016, entitled "Green Spaces of Berlin", A collaborative work of Biomimicry, Germany (Supervised by Arndt Pechstein & Prateep Beed); <https://getinkspired.com/es/story/675/green-spaces-of-berlin/>; Berlin, Germany: 5/2016. She has been a collaborator in two scientific laboratories, the first for Plant Anatomy and the second for Biology and Conservation. She has described in detail the macroscopic and microscopic characteristics of the bark of some Quercus species. He has generated a Molecular Biology protocol and using statistical tools. He is currently working in an Environmental Management Office (INSITE).



Eduardo Federico Schaeffer

I have been working in herpetology since 1997, studying the amphibians and reptiles of northern Argentina. I carry out comparative studies in communities under anthropic and non-anthropic impact, analysing different aspects of amphibian and reptile life histories: reproduction, feeding, song acoustic variables, trophic aspects, environmental variables, anthropization, species diversity). From 1990 to date I have developed a wide experience in fieldwork campaigns and techniques, collection and identification of herpetozoan samples. I have carried out studies on amphibians and reptiles: reproductive modes, behaviour, bioacoustic feeding, larvae, lists of species in reserves and national parks, distribution, conservation, etc. University lecturer since 1997 in Vertebrate Zoology, Animal Ecology and Community Ecology. Currently, the main objective of my studies is to obtain useful tools to detect priority areas for biodiversity conservation, examining the effectiveness and representativeness of protected areas in the Argentinean Chaco, one of the most threatened environments on the planet. The aim is to propose viable strategies to ecologically and socio-economically integrate the existing system of protected areas.



Jaehwan Shim

Graduate in International Law, with a Master's and a PhD in Interpreting and Translation Studies. He is currently working on Rights of Nature. He is a South Korean lecturer, researcher and court interpreter working at the Institute of Latin American Studies (ILAS) at Hankuk University of Foreign Studies (HUFS) in Korea. His studies in interpreting and translation led him to become interested in interdisciplinary studies related to law, economics, humanities, holistic science and audiovisual translation related to socio-cultural content. He assumed the position of Senior Research Fellow at the Institute of Latin American Studies in 2019 and has been engaged in researching interdisciplinary studies related to the institute's Humanities Korea Plus (HK+) Initiative, a nationwide research initiative entitled "Latin America, Platform for Civilizational Transition in the 21st Century: From Industrial Civilization to Ecological Civilization".



Daniel Silva

Literary studies at the Pontificia Universidad Javeriana, Bogotá, and student of the Master's degree in Japanese Studies, Global Studies programme at Sophia University, Tokyo (Japan). He has worked mainly in the publishing sector, as a proofreader; in the distribution and sale of books; as well as in the promotion of Japanese literatures and cultures in public spaces of non-specialised discussion in Colombia. His lines of research seek to establish intercultural dialogues between Latin America -mainly Colombia- and Japan through their literatures.



Natalia María Simón Medina

PhD in Research in Humanities, Arts and Education. Degree in Sociology. Master's Degree in Market



Research and Digital Marketing. Master's Degree in Human Resources Management. Master's Degree in Occupational Risk Prevention. Specialist in Social Research Techniques and Applications. Programme Coordinator at the Down Syndrome Federation of Castilla-La Mancha. And more than 12 years as a university lecturer. President of the WG43 Disability and Society in the Spanish Federation of Sociology. Dean of the College of Political Science and Sociology of Castilla-La Mancha.



Xochitl Siorda Vasquez

Electronic Engineer, Master of Science in Microelectronics Engineering, PhD in Science and Technology in Mechatronics. Since 2008 she is a career academic at the Faculty of Electronics and Communications Engineering of the Universidad Veracruzana, and leader of the Academic Body "Modelling and Simulation of Intelligent Robotic Systems". The research line is oriented to the design of bio-inspired electronic systems. His areas of research interest include bio-inspired electronic systems, modelling of intelligent biomimetic systems, signal analysis and biological pattern recognition, and bio-inspired systems for robotic vision. He has directed several undergraduate theses including the Mexican Association of Mechatronics, in the 2017 National Mechatronics Thesis Competition, "Emilio Vargas Soto. He has directed several undergraduate theses within the Mexican Association of Mechatronics, in the 2017 National Mechatronics Thesis Competition, "Emilio Vargas Soto.



Andrea Fabiana Somoza-Norton

B.S. in Education and M.S. in Information Technology in Education, University of Nevada, Reno (2004), Ph.D. in School Leadership, University of Massachusetts, Lowell (2012). The year 2012-2013 Notre Dame High School, Lawrence, MA Associate Headmaster (Full time). From 2015 to 2016 she was linked to the New Hampshire Department of Education, Concord, NH Educational Consultant, and from 2015 to the present, she is associate professor and coordinator of the area of Educational Leadership and Administration School of Education, School of Science and Mathematics at California Polytechnic State University (USA). Her academic lines of work are: 1). Systems thinking and dynamic models (Applications of systems thinking in leadership); 2). Holonomic education (Nature-inspired leadership: biomimetic leadership); 3). Education law, policy and implementation (e.g., regional local control, spending trends, duties and responsibilities of Title IX coordinators). Research biomimicry extensively to apply this innovative theme in my classroom where I use the term "biomimetic leadership.



Registration fees

FACE-TO-FACE	UNTIL 07-09-2022
General	50,00 EUR
INVITED	0 EUR
LIVE ONLINE	UNTIL 07-09-2022
INVITED	0 EUR
General	35,00 EUR



Place

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