

Professional Experience

07/2022 – ongoing	Economic Analysis Department Faculty of Economics and Business Studies, University of the Basque Country (Bilbao, Spain) Associate Professor: Microeconomics and Macroeconomics (undergraduate students, Spanish and Basque); Energy Markets and Environmental Economics (graduate students, English); Macroeconomics (graduate students, Spanish).
01/2017 – ongoing	Basque Centre for Climate Change (Bilbao, Spain) Associate research fellow. Research in Climate Policy, Energy Economics, Energy Policy and Renewable Energy.
09/2018 – 07/2022	Economic Analysis Department Faculty of Economics and Business Studies, University of the Basque Country (Bilbao, Spain) Assistant Professor: Microeconomics and Macroeconomics (undergraduate students, Spanish and Basque); Energy Markets (graduate students, English); Macroeconomics (graduate students, Spanish).
01/2017 – 09/2018	Applied Economics III Department Faculty of Economics and Business Studies, University of the Basque Country (Bilbao, Spain) Interim Professor: Actuarial Statistics and Statistics (undergraduate students, Spanish and Basque).
03/2016 – 01/2017	Basque Centre for Climate Change (Bilbao, Spain) Post-doctoral researcher. Research in Climate Policy, Energy Economics, Energy Policy and Renewable Energy.
07/2011 – 02/2016	Foundations of Economic Analysis II Department Faculty of Economics and Business Studies, University of the Basque Country (Bilbao, Spain) Applied economic research: renewable energy policies in Spain Teaching assistant: Microeconomics (undergraduate students, Spanish); Econometrics (graduate students, English); Energy Markets (graduate students, English).
01/2008 - 09/2010	Santander Bank (Madrid, Spain) Headquarters. Experience in data base management and technical analysis.

Education

02/2016	PhD in Economics (with honors and international mention) University of the Basque Country (Bilbao, Spain)
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09/2011	Master in Economics: Empirical Applications and Policies (with honors) University of the Basque Country (Bilbao, Spain)
12/2008	Master in Finance, Institutions and Markets University Centre of Financial Studies, CUNEF (Madrid, Spain)
04/2008	BS in Telecommunications Engineering University of the Basque Country (Bilbao, Spain)

Languages

Spanish	Mother tongue
English	Fluent (C1, Certificate in Advanced English)
Basque	Fluent (C1, Gaitasun maila - Hizkuntza Eskola Ofiziala)
German	Independent user (B2, Goethe Institut)

Scientific Publications

2024	<i>"Right and Duty: Investment Risk Under Different Renewable Energy Support Policies"</i> . P. Alcorta, M.P. Espinosa, C. Pizarro-Irizar. <i>Environmental and Resource Economics</i> 87, 3163–3204.
2023	<i>"Who bears the risk? Incentives for renewable electricity under strategic interaction between regulator and investors"</i> . P. Alcorta, M.P. Espinosa, C. Pizarro-Irizar. <i>Resource and Energy Economics</i> 75, 101401.
2023	<i>"Pricing policies for efficient demand side management in liberalized electricity markets"</i> . A. Ciarreta, C. Pizarro-Irizar. <i>Economic Modelling</i> 121, 106215.
2023	<i>"Is it all about supply? Demand-side effects on the Spanish electricity market following Covid-19 lockdown policies"</i> . C. Pizarro-Irizar. <i>Utilities Policy</i> 80, 101472.
2020	<i>"Assessing stakeholder preferences on low-carbon energy transitions"</i> . C. Pizarro-Irizar, M. Gonzalez-Eguino, W. van der Gaast, I. Arto, J. Sampedro, D.-J. van de Ven. <i>Energy Sources, Part B: Economics, Planning, and Policy</i> 15(10-12), 455-491.
2020	<i>"Renewable energy regulation and structural breaks: An empirical analysis of Spanish electricity price volatility"</i> . A. Ciarreta, C. Pizarro-Irizar, A. Zarraga. <i>Energy Economics</i> 88, 104749.
2020	<i>"Health co-benefits and mitigation costs as per the Paris Agreement under different technological pathways for energy supply"</i> . J. Sampedro, S.J. Smith, I. Arto, M. González-Eguino, A. Markandya, K.M. Mulvaney, C. Pizarro-Irizar, R. Van Dingenen. <i>Environment International</i> 136: 105513.

- 2020 *"Lost (and found) in Transition: Expert stakeholder insights on low-carbon energy transitions in Spain". A.H. Sorman, X. García-Muros, Cristina Pizarro-Irizar, Mikel González-Eguino. Energy Research & Social Science 64: 101414.*
- 2018 *"Is renewable energy a cost-effective mitigation resource? An application to the Spanish electricity market". Maria Paz Espinosa and Cristina Pizarro-Irizar. Renewable and Sustainable Energy Reviews 94, 902-914*
- 2018 *"Health co-benefits from air pollution and mitigation costs of the Paris Agreement: a modelling study". Anil Markandya, Jon Sampedro, Steven J Smith, Rita Van Dingenen, Cristina Pizarro-Irizar, Iñaki Arto and Mikel González-Eguino. The Lancet Planetary Health 2(3), 126-133.*
- 2017 *"Optimal regulation of renewable energy: A comparison of Feed-in Tariffs and Tradable Green Certificates in the Spanish electricity system". Aitor Ciarreta, Maria Paz Espinosa and Cristina Pizarro-Irizar. Energy Economics 67, 387-399.*
- 2017 *"Has Renewable Energy induced competitive behavior in the Spanish electricity market?". Aitor Ciarreta, Maria Paz Espinosa and Cristina Pizarro-Irizar. Energy Policy 104, 171-182.*
- 2014 *"Is green energy expensive? Empirical evidence from the Spanish electricity market". Aitor Ciarreta, Maria Paz Espinosa and Cristina Pizarro-Irizar. Energy Policy 69, 205-215.*

Book Chapters

- 2023 *"Green jobs in the Spanish renewable energy sector: an input-output approach ". Manuel Tomás, Ignacio Cazcarro, Julen Montilla, Cristina Pizarro-Irizar, Iñaki Arto. In Handbook on the Economics of Renewable Energy. Pages 138-157. Ed. Edward Elgar Publishing.*
- 2019 *"On a rollercoaster of regulatory change—risks and uncertainties associated with renewable energy transitions". Alevgul H Sorman, Cristina Pizarro-Irizar, Xaquín García-Muros, Mikel González-Eguino, Iñaki Arto. In Narratives of Low-Carbon Transitions. Pages 121-138. Ed. Routledge.*
- 2014 *"Switching from feed-in tariffs to a tradable green certificate market". Aitor Ciarreta, Maria Paz Espinosa and Cristina Pizarro-Irizar. In The Interrelationship Between Financial and Energy Markets. Lecture Notes in Energy 54, 261-280.Springer.*

Other publications

- 2022 *"Análisis de impacto de alternativas para la financiación de las energías renovables en España". Mikel González-Eguino, Xaquín García-Muros, Iñaki Arto, Cristina Pizarro-Irizar. Cuadernos Económicos de ICE 104: 111-135.*

- 2020 *"Análisis de impacto del Plan Nacional Integrado de Energía y Clima (PNIEC) 2021-2030 de España"*. Mikel González-Eguino, I. Arto, A. Rofríguez-Zúñiga, J. Sampedro, K. Kratena, I. Cazcarro, A.H. Sorman, C. Pizarro-Irizar, M. José Sanz-Sánchez. *Papeles de Economía Española* 163: 9-22.
- 2014 *"La nueva reforma del mercado eléctrico español: eficiencia y austeridad"* (*The new reform of the Spanish electricity market: efficiency and austerity*). A. Ciarreta and C. Pizarro-Irizar. *Cuadernos Económicos de ICE* 88, 97-126.
- 2013 *"Políticas para la reducción del déficit tarifario"* (*Policies to reduce the tariff deficit*). M.P. Espinosa and C. Pizarro-Irizar. *Papeles de Economía Española* 134, 117-126.
- 2012 *"Efecto de la energía renovable en el mercado diario de electricidad: escenario 2020"* (*The effect of renewable energy in the Spanish daily electricity market: 2020 scenario*). A. Ciarreta, M.P. Espinosa and C. Pizarro-Irizar. *Cuadernos económicos de ICE* 83, 101-11.
- 2012 *"The Effect of Renewable Energy in the Spanish Electricity Market"*. A. Ciarreta, M.P. Espinosa, C. Pizarro-Irizar. *Lecture Notes in Information Technology* 9, 431-436.

Conferences as speaker

- 2025 "European electricity market integration: A volatility spillover approach". Presented at the 19th International Joint Conference on Computational and Financial Econometrics and Computational and Methodological Statistics (CFE-CMStatistics 2025). London, UK (13-15 December, 2025).
- 2024 *"Towards European electricity market integration: a volatility spillover approach"*. Presented at the XII International Academic Symposium: «Accelerating the net zero economy transformation: new challenges for sustainability». Barcelona, Spain (6 February, 2024).
- 2023 *"Gender gap in the energy sector. Evidence from Spain"*. Presented at the 18th Conference of the Spanish Association for Energy Economics. Castelló, Spain (24-26 May, 2023).
- 2023 *"Quantifying the value of reduced investment risk under different green energy support policies"*. Presented at the XI International Academic Symposium: Green investments for the energy transition. Barcelona, Spain (7 February, 2023).
- 2022 *"Is it all about supply? Analysis of demand-induced effects in the Spanish electricity market after different lockdown policies to tackle Covid-19"*. Presented at the 17th Conference of the Spanish Association for Energy Economics. Alcalá, Spain (25-27 May, 2022).

- 2021 *"An option analysis of renewable support mechanisms"*. Presented at the 2021 IAEE International conference. Online, (7-9 June, 2021).
- 2018 *"Pricing policies for efficient demand side management in Spain"*. Presented at the 43rd Simposio Asociación Española de Economía – Spanish Economic Association. Madrid, Spain (13-15 December, 2018).
- 2018 *"Pricing policies for efficient demand side management in Spain"*. Presented at the 15th International Conference Developments in Economic Theory and Policy. Bilbao, Spain (28-29 June, 2018).
- 2018 *"Implications of different mitigation portfolios on stakeholder preferences"*. Presented at the 41st International IAEE Conference. Groningen, Netherlands (10-13 June, 2018).
- 2018 *"Implications of different mitigation portfolios on stakeholder preferences"*. Presented at the 13th Conference of the Spanish Association for Energy Economics. Zaragoza, Spain (1-2 February, 2018).
- 2017 *"Is Renewable Energy a cost-effective mitigation resource against climate change? An analysis of the Spanish electricity market beyond the merit-order effect"*. Presented at the 12th Conference of the Spanish Association for Energy Economics. Salamanca, Spain (2-3 February, 2017).
- 2016 *"Optimal regulation of renewable energy: A comparison of Feed-in Tariffs and Tradable Green Certificates"*. Presented at the 41th Symposium Spanish Economics Association. Bilbao, Spain (15-17 December, 2016).
- 2014 *"Evolve or die: New bidding strategies for Combined Cycle electricity plants after the introduction of Renewable Energy"*. Presented at the 14th European IAEE Conference. Rome, Italy (28-31 October, 2014).
- 2014 *"How costly is the promotion of renewable energy? An application to the Spanish electricity market"*. Presented at the 9th Conference of the Spanish Association for Energy Economics. Madrid, Spain (3-4 February, 2014).
- 2013 *"Is green energy expensive? Empirical evidence of the Spanish electricity market"*. Presented at the 13th European IAEE Conference. Düsseldorf, Germany (18-21 August, 2013).
- 2013 *"Switching from feed-in tariffs to a tradable green certificate market"*. Presented at the 8th Conference of the Spanish Association for Energy Economics. Valencia, Spain (17-18 January, 2013).

Speaker by invitation

2025	Round table: <i>“Justicia Energética: Recursos y Herramientas”</i> . Organized by ConsumES. Bilbao, Spain (29 October, 2025).
2025	Round table: <i>“Infraestructuras eléctricas para soportar el crecimiento industrial”</i> . Organized by Fundación Alternativas and UPV/EHU. Bilbao, Spain (13 October, 2025).
2024	Round table: <i>“La competencia del mercado eléctrico en España”</i> . Organized by Energía y Sociedad, PwC and UPV/EHU. Bilbao, Spain (8 November, 2024).
2023	Round table: <i>“Energia Berriztagarriak Euskal Herrian: Gatazka edo aterabidea?”</i> . Organized by ehugune. Bilbao, Spain (25 April, 2023).
2021	Round table: <i>“Un análisis en profundidad del Fondo Nacional para la Sostenibilidad del Sistema Eléctrico”</i> . Organized by the Alianza por una Recuperación Sostenible. Online (22 January, 2021).
2018	Discussant: <i>“El mercado eléctrico español y su interconexión con el mercado eléctrico alemán”</i> . XVI Workshop en Banca y Finanzas Cuantitativas. Madrid, Spain (9-11 July, 2018).
2013	Round table: <i>“Perspectivas laborales: qué necesita el sector por parte de los jóvenes, y qué esperan los jóvenes del sector”</i> . Segunda Jornada de la Sección de Estudiantes y Jóvenes Profesionales de la AEEE. Madrid, Spain (19 September, 2013).

Organization of Conferences

2026 (forthcoming)	<i>Scientific Committee</i> . 21th Conference of the Spanish Association for Energy Economics. (27-29 May, 2026. Forthcoming).
2025	<i>Scientific Committee</i> . II Workshop on Energy Policy. Valencia, Spain (6 – 7 November, 2025).
2025	<i>Scientific Committee</i> . 20th Conference of the Spanish Association for Energy Economics. Bilbao, Spain (2 – 4 June, 2025).
2024	<i>Scientific Committee</i> . 19th Conference of the Spanish Association for Energy Economics. Granada, Spain (5 – 7 June, 2024).
2023	<i>Organizing Committee</i> . XXXVII Jornadas de Economía Industrial of the Spanish Association for Economics. Bilbao, Spain (7 – 8 September, 2023).

2023	<i>Scientific Committee</i> . 18th Conference of the Spanish Association for Energy Economics. Castelló, Spain (24 – 26 May, 2023).
2022	<i>Scientific Committee</i> . X Conference of the Spanish-Portuguese Association of Resources and Environmental Economics (AERNA). Barcelona (1-3 September, 2022).
2022	<i>Organizing Committee</i> . 17th Conference of the Spanish Association for Energy Economics. Alcalá, Spain (25 – 27 May, 2022).
2022	<i>Scientific Committee</i> (chair). 17th Conference of the Spanish Association for Energy Economics. Alcalá, Spain (25 – 27 May, 2022).
2021	<i>Scientific Committee</i> . IX Conference of the Spanish-Portuguese Association of Resources and Environmental Economics (AERNA). Lleida (2-3 September, 2021).
2021	<i>Scientific Committee</i> . 16th Conference of the Spanish Association for Energy Economics. Online (29-30 June, 2021).
2020	<i>Scientific Committee</i> . 15th Conference of the Spanish Association for Energy Economics. Toledo, Spain (29-31 January, 2020).
2019	<i>Organizing Committee</i> . 14th Conference of the Spanish Association for Energy Economics. A Coruña, Spain (30 January - 1 February, 2019).
2019	<i>Scientific Committee</i> . 14th Conference of the Spanish Association for Energy Economics. A Coruña, Spain (30 January - 1 February, 2019).

International experience

07/2024-08/2024	Visiting researcher at the Business School of the University of Birmingham in Birmingham (United Kingdom).
05/2014-07/2014	Visiting researcher at the Competence Center Energy Policy and Energy Markets of the Fraunhofer Institute for Systems and Innovation Research ISI in Karlsruhe (Germany).

Thesis direction

2025	<i>"Risk, Return and Strategy: Essays on Selected Challenges for Decarbonization"</i> . Student: Peio Alcorta. University of the Basque Country. Co-directed with Maria Paz Espinosa.
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2023-ongoing	<i>"The fiscal implications of the energy transition in Euskadi: modeling, quantification, and policy recommendations to address the challenges of decarbonization in the European Union".</i> Student: Nerea Urrutia. University of the Basque Country. Co-directed with Mikel Erkoreka and Iñaki Arto.
2023-ongoing	<i>"Género, educación y mercado laboral".</i> Student: Alejandra Torres. University of the Basque Country. Co-directed with Arantza Ugidos.
2024-ongoing	<i>"Determinants of renewable energy deployment: Environmental, Economic, and Uncertainty".</i> Student: Daniela Filip. University of the Basque Country.
2025-ongoing	<i>"Competition in electricity markets in the context of energy transition".</i> Rakel Murillo. University of the Basque Country. Co-directed with Maria Paz Espinosa.

Master thesis direction

2025	<i>"Optimal Regulation of Natural Monopolies: An Application to the Electricity Distribution Grid".</i> Student: Rakel Murillo. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Maria Paz Espinosa.
2025	<i>"Forecasting electricity prices and realized volatility in the Spanish electricity market".</i> Student: Aritz Jauregui. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Aitor Ciarreta.
2025	<i>"Volatility spillovers in European electricity markets: An analysis for Spain, Portugal and France".</i> Student: Francisco Rolotti. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Ainhoa Zarraga.
2025	<i>"Analysis of Electricity Distribution Grid Remuneration in Spain: A Comparative Study with the UK".</i> Student: Mikel Arregui. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Aitor Ciarreta.
2025	<i>"Grid Costs and Efficiency in the Green Industrial Transition in Spain".</i> Student: David Garriga. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Maria Paz Espinosa.
2024	<i>"Fitting Spanish electricity supply curves using bid data".</i> Student: Raluca Toader. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Aitor Ciarreta.

2024	<i>"Competition in the Spanish electricity market: A holistic view"</i> . Student: Kai Sánchez. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Aitor Ciarreta.
2024	<i>"Renewable Energy Integration Under Supply Function Competition"</i> . Student: Paula Pozuelo. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Maria Paz Espinosa.
2023	<i>"La importancia de decidir la educación extraescolar"</i> . Student: Alejandra Torres. Master en Economía: Instrumentos del Análisis Económico. University of the Basque Country. Co-directed with Nagore Iriberri.
2023	<i>"The Fiscal Implications of Energy Transition in the Transport Sector: A Case Study of the Basque Country"</i> . Student: Nerea Urrutia. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Mikel Erkoreka.
2022	<i>"An Analysis of the Tourism Demand in the Dominican Republic From 2001 to 2021"</i> . Student: Stephanie Reyes. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Aitor Ciarreta.
2022	<i>"Electricity price forecasting using sale and purchase curves: The X-Model. Evidence for Spain"</i> . Student: Jorge Rey. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Peru Muniain.
2022	<i>"A discriminatory auction for the day-ahead electricity market: its effect on windfall profits"</i> . Student: Aitor Díez Ormazabal. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Maria Paz Espinosa.
2021	<i>"The relation between electricity and natural gas spot prices in Spain: cointegration and volatility spill-over analysis"</i> . Student: Luis María González Sánchez. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Aitor Ciarreta.
2021	<i>"Gender gap in the energy sector. Evidence from Spain"</i> . Student: Agata Ewa Mlodawska. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Ainhoa Vega.
2020	<i>"Green jobs in the Spanish renewable energy sectors: an input-output approach"</i> . Student: Julen Montilla. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Iñaki Arto.

2020	<i>"Impact of the phase out of French nuclear plants on the Spanish electricity market"</i> . Student: Cynthia Vera. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Aitor Ciarreta.
2020	<i>"Who bears the risk? Analyzing the strategic interaction between regulators and investors when setting incentives for renewable electricity"</i> . Student: Peio Alcorta. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Maria Paz Espinosa.
2018	<i>"An option analysis of the Spanish renewable energy support mechanisms"</i> . Student: Andrea Giralt. Master en Banca y Finanzas Cuantitativas. University of the Basque Country. Co-directed with Maria Paz Espinosa.
2016	<i>"Is Renewable Energy a Cost-effective Mitigation Resource against Climate Change? An analysis of the Spanish Electricity Market beyond the Merit-Order Effect"</i> . Student: Gabriel Peto. Master in Economics: Empirical Applications and Policies. University of the Basque Country. Co-directed with Maria Paz Espinosa.

Grants and Prizes

2018	PhD Extraordinary Award and International Mention Granted by the University of the Basque Country.
2013	Best Student Paper Award 8th Conference of the Spanish Association for Energy Economics.
01/2012 – 02/2016	PhD grant Funded by the Basque Government.
2011	Best Student Award Master of Economics: Empirical Applications and Policies (University of the Basque Country).

Others

2 six-year research periods recognised by ANECA.

Academic Secretary of the Department of Economic Analysis since December, 2024.

Reviewer for Climatic Change, Energy Policy, Energy Economics, Environmental Innovation and Societal Transitions, Ecological Economics, Journal of Cleaner Production, npj Climate Action, The Energy Journal and Utilities Policy.

Seminars in Karlsruhe (2014), Vigo (2015), Bilbao (2017), Barcelona (2023) and Birmingham (2024).

Member of the Evaluation and Accreditation Board of the Andalusian Knowledge Agency during 2015.

Treasurer of the Spanish Association for Energy Economics (AEEE) from February, 2018 to June, 2019.

Member of the board of the Spanish Association for Energy Economics from June, 2019 to June, 2021.

Basque Country delegate of the Spanish Association of Energy Women (AEMENER) since November 2020.

Member of the Academic Committee of the Master in Economics: Empirical Applications and Policies since November, 2021.

Member of the Academic Committee of the PhD program in Finance and Quantitative Economics (Finanzas y Economía Cuantitativas) since November, 2022.

Member of the Equality Commission of the Faculty of Economics and Business Studies since November, 2021.

[EHUgune](#) collaborator in the University of the Basque Country since July, 2021 until December 3, 2024.

Participation in research projects funded by the European Commission (TRANSrisk from 2016 to 2018, Adjust from 2022 to 2026), the Spanish Government (ECO2012-35820 from 2013 to 2015, ECO2015-64467-R from 2017 to 2019, RTI2018-093352-B-I00 from 2019 to 2021, PID2019-108718GB-I00 from 2020 to 2023 and PID2022-139458NB-I00 from 2023 to 2026) and the Basque Government (IT-783-13 from 2015 to 2018, IT1336-19 from 2019 to 2021, IT1461-22 from 2022 to 2025).

Principal investigator in research projects funded by private institutions (Ayudas a la Investigación Fundación Iberdrola from 2013 to 2014) and the University of the Basque Country (INF 21/26 in 2021, EHU-N23/50 in 2024, EHU-G25/03 in 2025 and EHU-US25/24 in 2025).

Participation in R+D contracts funded by IDAE (Instituto para la Diversificación y Ahorro de la Energía, public body) in 2019, Iberdrola (private energy company) in 2018-2019, 2019-2021, 2023-2024, 2024-2025, 2025-2026, ARARTEKO (public body) in 2017 and Fundación Alternativas (independent center) in 2025.

Teaching (undergraduate): Actuarial Statistics (2017), Dynamic Macroeconomics (2020, 2021, 2022, 2023, 2024), Intermediate Macroeconomics (2019, 2020, 2021), Macroeconomics (2018, 2020), Microeconomics (2014, 2015, 2018), and Statistics (2017, 2018).

Teaching (master): Econometrics (2015), Energy Markets (2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026), Environmental Economics (2024, 2025, 2026), Macroeconomics (2021, 2022, 2023, 2024, 2025).

[Docentiaz](#) 2020, score: 80,83/100.

Participation in teaching innovation projects: national (2014-2016, 2021-2022 and 2022-2023, UPV/EHU), international (2018-2021, European Commission).

Participation in the [ENLIGHT](#) consortium since 2021.