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I am currently a Full Professor in the Department of Economics and Business at the UAH (Spain), where I am also founder and Lead Researcher of INNOGREEN Research (Research Group on Eco-innovation and Circular Economy), and a Research Associate of the Institute for Economic and Social Analysis (IAES) and of the Banco Santander Chair of Corporate Social Responsibility. I am also a Member of the Innovation Council of the Insight Foresight Institute (IFI), and a Fellow at the Centre for European Studies Jean Monnet at IE University. I previously chaired between 2008 and 2012 the Economics Department at the top ranked IE Business School (Spain), where I co-founded in 2003 with Prof. Gregory C. Unruh a then groundbreaking initiative to study and promote Circular Economy, the Center for Eco-Intelligent Management, under the chairmanship of William McDonough, known as the "father of the Circular Economy" and co-creator of "Cradle to Cradle" design. I was also a Visiting Researcher at the University of Cambridge and at the Spanish National Research Council (CSIC), a Visiting Professor at Shanghai International University Studies, and I have served as an Independent Expert assisting the European Commission, the OECD and the Spanish Government. I have dedicated the last few years to researching sustainable technological change and new policy and management models that address the environmental challenge in an innovative way (eco-innovation and circular economy). My advances in the field are expounded in numerous articles and works on environmental sustainability and technological change, published in international journals and books. Furthermore, I regularly contribute to leading newspapers and media and participate as a speaker in conferences on corporate social responsibility, environmental management and innovation management. I hold a PhD in Economics from UAH and an MBA with Honors from IE Business School.

1. EDUCATION

- 2003 PhD in Economics, Summa Cum Laude
 Department of Fundamentals of Economic Analysis, University of Alcalá (UAH), Madrid.
 Dissertation: *Technology and the Environment: An Evolutionary Approach to Sustainable Technological Change* (published in Ecological Economics and Journal of Economic Issues, both indexed in JCR).
 Director: Prof. Diego Azqueta Oyarzun, UAH.
 Co-director: Prof. Gregory C. Unruh, Columbia University.
- 1996 Master of Business Administration (M.B.A.), with Honors (top 5%). IE Business School.
- 1994 BSc in Economic and Business Sciences (top 5%), UAH.

Postdoctoral education: several courses and seminars on economics, environment, energy, innovation, and research and teaching methods from Harvard Business School (2009, 2010), University of Cambridge (2006, 2008), Bentley College (2007), IE Business School (2006, 2007, 2008), among others.

2. ACADEMIC APPOINTMENTS

- 2023-present Lead Researcher, Research Group on Eco-innovation and Circular Economy, UAH.
- 2019-present Full Professor, Department of Economics and Business, UAH.
- 2022-2025 Strategic Planning Director, UAH
- 2018 Visiting Professor, Shanghai International Studies University, China.
- 2017 Visiting Researcher, Spanish National Research Council (CSIC).
- 2016-present Member, Innovation Council of Insight Foresight Institute (IFI).
- 2016-2023 Lead Researcher, Complex Systems in Social Sciences Research Group, UAH.
- 2016-2019 Deputy Director, Department of Economics and Business, UAH.
- 2013-present Associate Researcher, Institute for Economic and Social Analysis, UAH.
- 2012-2019 Associate Professor, Department of Economics and Business, UAH.
- 2011-2012 Adjunct Professor, Department of Economics and Business, UAH.
- 2009-present Fellow, Centre for European Studies, IE University (Jean Monnet Centre of Excellence, European Commission 2009-3241/001-001).
- 2008-2012 Head of Department, Economic Environment of Business, IE Business School (IE B.S.).
- 2008 Visiting Researcher, University of Cambridge, UK (Electricity Policy Research Group).
- 2006 Honorary Research Professor, UAH.
- 2005-2012 Associate Professor, Department of Economic Environment of Business, IE B.S.
- 2003-2008 Co-founder and Executive Director, Centre for Eco-Intelligent Management, IE B.S.
- 2002-2005 Assistant Professor, Department of Economic Environment of Business, IE B.S.
- 1997-2002 Teaching Fellow, Department of Economic Environment of Business, IE B.S.
- 1996-2002 Executive Assistant to the Academic and External Relations General Managers, IE B.S.

3. CORPORATE EXPERIENCE

Consulting/research work on sustainability and innovation for numerous companies and institutions like Ernst & Young, PricewaterhouseCoopers, Nordic Energy Research, VTT Technical Research Centre of Finland, World Business Council for Sustainable Development (WBCSD-Spain), Gas Natural Fenosa, Repsol, Fundación Ingeniería y Sostenibilidad, Spanish Ministry of Science and Innovation, Spanish Ministry of Industry, among others. As principal investigator, I have been awarded more than a quarter of a million € of research grants in the last few years.

4. ACCREDITATIONS, GRANTS AND HONORS

- 2025 Research grant of €15,000 (research team member), Comunidad de Madrid.
- 2024 Research grant of €116,769 (research team member), Fundación Biodiversidad, Spanish Ministry for Ecological Transition and the Demographic Challenge (2024/00210/001 - PLEAMAR23-18).
- 2022 Research grant of €200,587 € (research team member), Fundación Biodiversidad, Spanish Ministry for Ecological Transition and the Demographic Challenge (Biodiversidad-2021).
- 2019 Positive evaluation from CNEAI (National Committee of Research Activity Evaluation, Spanish Ministry of Education and Science) of my research activity during 2013-2018 (CNEAI18/07313).
- 2017 Positive evaluation from ANECA (National Agency of Evaluation and Quality Accreditation, Spanish Ministry of Education and Science; member of ENQA, the European Association for Quality Assurance in Higher Education) as a Full Professor (tenured, civil servant) for public universities – Social Sciences (2017-000403 P).
- 2019 Research grant of €152,460 (project leader), Repsol.
- 2017 Research grant of €467,500 (research team member), H2020-EU.3.6.3. - Reflective societies - cultural heritage and European identity (Project ID: 770356).
- 2016 Research grant of €14,520 (research team member), Spanish Ministry of Economy and Competitiveness and European Regional Development Fund, Programa Estatal de I+D+i orientada a los Retos de la Sociedad (AEI/FEDER, UE) (CSO2016-74888-C4-4-R).
- 2013 Positive evaluation from CNEAI of my research activity during 2001-2006 and 2007-2012 (CNEAI-12/00117).
- 2012 Research grant of €40,500 (research team member), Spanish Ministry of Economy and Competitiveness, Plan Nacional de I+D+I (ECO2012-30932).
- 2012 Research grant of €7,000 (project leader), Ernst & Young.
- 2010 Positive evaluation from ANECA as an Associate Professor (tenured, civil servant) for public universities – Social Sciences (2010-001084).
- 2010 Research grant of €51,259 (project leader), Gas Natural Fenosa.
- 2009 Research grant of €27,225 (project leader), Spanish Ministry of Science and Innovation, National Plan of R&D (ECO2009-07237/ECON).
- 2009 Research grant of €10,800 (project leader), PricewaterhouseCoopers.
- 2008 Wolfson College Visiting Scholarship, University of Cambridge, UK.
- 2008 Research grant of €14,200 (project leader), Nordic Energy Research / VTT Technical Research Centre of Finland.
- 2008 Research grant of €15,000 (project leader), Spanish Ministry of Industry.
- 2007 Research grant of €14,000 (project leader), PricewaterhouseCoopers.
- 2007 Research grant of €18,000 (project leader), Fundación Ingeniería y Sostenibilidad.
- 2007 Positive evaluation from ANECA as an Associate Professor (non-civil servant) for public (PC 2007-754) and private universities (PC 2007-755).
- 2007 State Street Corporation fellowship to attend the Global Business Ethics Faculty Development Teaching Workshop, Bentley College.
- 2006 Lifetime member of the Beta Gamma Sigma Honor Society (the international honor society for collegiate schools of business), in recognition of achievements in research and teaching.
- 2006 Honorary Research Professor, University of Alcalá.

5. ACADEMIC ASSOCIATION MEMBERSHIPS

Eco-innovation Society (Steering Board member), IS4CE - International Society for the Circular Economy, GRONEN - Group for Research on Organizations and the Natural Environment, ACEDE - Spanish Academy of Management (Vice President of the Business and Society Section).

6. PUBLICATIONS

Areas of research interest: eco-innovation; circular economy; sustainability transitions.

6.1. REFEREED JOURNALS

- "Eco-innovation for circular economy and sustainability performance: Insights and evidence from manufacturing firms" (with Mora-Contreras, R., Hernández-Salazar, G., Torres-Guevara, L.E.; Mejía-Villa, A. and Ormazabal, M.) *Business Strategy and the Environment*, 2025, 34(1): 1231-1256 (JCR D1). <https://doi.org/10.1002/bse.4046>
- "How does corporate environmental culture enable the eco-innovation transition of firms towards the circular economy?" (with Kiefer, C. and del Río, P.) *Corporate Social Responsibility and Environmental Management*. 2024 (JCR D1). <http://doi.org/10.1002/csr.2888>
- "Do environmental and cleaner production practices lead to circular and sustainability performance? Evidence from Colombian manufacturing firms" (with Mora-Contreras R. et al.) *Sustainable Production and Consumption*. 2023, 40: 77-88 (JCR D1). 10.1016/j.spc.2023.06.004
- "Open eco-innovation: Aligning cooperation and external knowledge with the levels of eco-innovation radicalness" (with Chistov, V. and Aramburu, N.) *Journal of Open Innovation: Technology, Market, and Complexity*, 2023, 9(2),100049 (SJR D1). doi.org/10.1016/j.joitmc.2023.100049
- "Open eco-innovation: A bibliometric review of emerging research" (with Chistov, V. and Aramburu, N.) *Journal of Cleaner Production*, 2021, 311 (JCR D1). <https://doi.org/10.1016/j.jclepro.2021.127627>
- "On the contribution of eco-innovation features to a circular economy: A micro-level quantitative approach." (with Kiefer, C.P. and del Río, P.) *Business Strategy and the Environment*, 2021, 30: 1531-1547 (JCR D1). 10.1002/bse.2688
- "Sustainable business model innovation and acceptance of its practices among Spanish entrepreneurs" (with Peralta, A. and Crecente F.) *Corporate Social Responsibility and Environmental Management*, 2019, 26 (5): 1119-1134 (JCR D1). doi.org/10.1002/csr.1790
- "Building a taxonomy of eco-innovation types in firms: A quantitative perspective" (with Kiefer, C.P. and del Río, P.) *Resources, Conservation & Recycling*, 2019, 145: 339–348 (JCR D1). 10.1016/j.resconrec.2019.02.021
- "Drivers and barriers of eco-innovation types for sustainability transitions: A quantitative perspective" (with Kiefer, C.P. and del Río, P.) *Business Strategy and the Environment*, 2019, Vol. 28: 155-172 (JCR D1). In the top 10% of most downloaded articles in *Business Strategy and the Environment* between January 2018 and December 2019. 10.1002/bse.2246
- "Sustainable Innovation: Processes, Strategies, and Outcomes" (with Ardito, L., del Río, P. and Pontrandolfo, P.) *Corporate Social Responsibility and Environmental Management*, 2018, 25: 106–109 (JCR D1). <https://doi.org/10.1016/j.jclepro.2017.07.241>
- "Diversity of eco-innovations: A quantitative approach" (with Kiefer, C.P., del Río, P. and Callealta, J.) *Journal of Cleaner Production*, 2017, 166: 1494-506 (JCR D1). <https://doi.org/10.1016/j.jclepro.2017.07.241>
- "Resources, capabilities and competences for eco-innovation" (with del Río, P., Könnölä, T. and Bleda, M.) *Technological and Economic Development of Economy*, 2016, Vol. 22 (2): 274-292 (JCR D1). <https://www.tandfonline.com/doi/abs/10.3846/20294913.2015.1070301>
- "Technological diffusion and standardization patterns: An industrial taxonomy." *Journal of Economic Issues*, 2015, Vol. XLIX No. 1: 253-263 (JCR Q3; SJR Q2). <https://doi.org/10.1080/00213624.2015.1013889>
- "Governance of energy system transition: Theoretical framework and empirical analysis in Europe" (with Könnölä, T. and Loikkanen, T.) *International Journal of Transitions and Innovation Systems*, 2013, 3 (1): 50-69. 10.1504/IJTIS.2013.056607
- "Diversity of eco-innovations: Reflections from selected case studies" (with del Río, P. and Könnölä, T.) *Journal of Cleaner Production*, 2010, 18 (10-11): 1073-1083 (JCR D1). Ranked by ISI Web of Science as a "Highly Cited Paper" (top 1% in its academic field); among the 25 most cited articles published in JCP in 2010-15, according to Scopus. 10.1016/j.jclepro.2010.02.014
- "Policy strategies to promote eco-innovation: An integrated framework" (with del Río, P. and Könnölä, T.) *Journal of Industrial Ecology*, 2010, 14 (4): 541-557 (JCR D1). 10.1111/j.1530-9290.2010.00259.x
- "Challenges and opportunities of a post-Kyoto mitigation regime: An analysis of the European electricity sector" (with del Río, P., Könnölä, T. and García, C.) *Mitigation and Adaptation Strategies for Global Change*, 2008, 13 (8): 863-885 (JCR Q2; SJR Q1). <https://doi.org/10.1007/s11027-008-9146-5>
- "An empirical analysis of institutional barriers to European hydrogen RD&D cooperation" (with Könnölä, T., del Río, P., Pombo-Juárez, L. and Unruh, G.) *International Journal of Sustainable Development*, 2008, 11 (1): 74-96 (SJR Q3).
- "Toward prospective voluntary agreements: Reflections from a hydrogen foresight project" (with Könnölä, T. and Unruh, G.) *Journal of Cleaner Production*, 2007, 15 (3): 259-265 (JCR D1).

- “A policy approach to the environmental impacts of technological lock-in” *Ecological Economics*, 2006, 58 (4): 717-742 (JCR D1). 10.1016/j.jclepro.2006.02.002
- “Globalizing Carbon Lock-in” (with Unruh, G.) *Energy Policy*, 2006, 34 (10): 1185-1197 (JCR D1). <https://doi.org/10.1016/j.enpol.2004.10.013>
- “Prospective voluntary agreements for escaping techno-institutional lock-in” (with Könnölä, T. and Unruh, G.) *Ecological Economics*, 2006, 57 (2): 239-252 (JCR D1). <https://doi.org/10.1016/j.ecolecon.2005.04.007>
- “Technology stability and change: An integrated evolutionary approach” (with Unruh, G.) *Journal of Economic Issues*, 2006, Vol. XL, No. 3: 707-742 (JCR Q3; SJR Q2). <https://doi.org/10.1080/00213624.2006.11506942>

Spanish journals

- “Fomentando los ecosistemas de eco-innovación: estudio de casos europeos sobre las iniciativas públicas de financiación” (with Könnölä, T., del Río, P., Díaz, F. and Grazzi, M.) *Economía Industrial*, 2025, 434: 151-160 (EconLit).
- “Hacia una mejor comprensión de la eco-innovación como motor de la competitividad sostenible” (with del Río, P., Kiefer, C. and Callealta, J.) *Economía Industrial*, 2016, 401: 31-40 (EconLit).
- “Una revisión crítica del impacto de los recursos y capacidades empresariales sobre la eco-innovación” (with Kiefer, C. and del Río, P.) *Revista de Responsabilidad Social de la Empresa*, 2015, 19(1): 17-51.
- “Enfoques y políticas de eco-innovación: Una visión crítica” (with del Río, P. and Könnölä, T.) *Ekonomiaz*, 2010, 75: 84-111 (EconLit).
- “Patrones industriales de difusión y estandarización tecnológica” *Economía Industrial*, 2007, 366: 233-254 (EconLit).
- “El proceso de decisión en la puesta en marcha de proyectos empresariales: ¿optimización o inercia?” (with Pablo-Martí, F. and Jiménez, J.C.) *Economía Industrial*, 2007, 363: 79-90 (EconLit).
- “Cambio tecnológico y rendimientos crecientes de la adopción: El papel del lock-in tecnológico en el desarrollo sostenible”, *Revista Interdisciplinaria de Gestión Ambiental*, 2002, 4(42): 12-22.

6.3. BOOKS AND BOOK CHAPTERS

- “A conceptual framework for the analysis of policy mixes on the Circular Economy” (with del Río, P. y Kiefer, C.) En F. Díaz, M. Mazzanti and R. Zoboli (eds.) *Handbook on Innovation, Society and the Environment*. Edward Elgar Publishing, October 2023. ISBN: 978 1 80220 005 8.
- “Eco-innovation” In B.M. Haddad and B.D. Solomon (eds) *Dictionary of Ecological Economics*. Edward Elgar Publishing, 2023. ISBN: 9781788974905.
- *The Circular Economy - Economic, Managerial and Policy Implications* (with Kiefer, C., del Río, P. and Könnölä, T.). Springer, 2021. ISBN 978-3-030-74791-6.
- “Taxonomy and dimensions of eco-innovation from a resource-based perspective” (with Kiefer, C. and del Río, P.) In F. Boons and A. McMeekin (eds.) *Handbook of Sustainable Innovation*. Cheltenham: Edward Elgar Publishing, 2019. ISBN: 978 1 78811 256 7: 78-100.
- *Eco-innovación: Claves para la Competitividad Sostenible y la Sostenibilidad Competitiva* (with del Río, P. and Könnölä, T.). La Coruña: Editorial Netbiblo, 2011. ISBN: 978-84-9745-576-3.
- *Eco-innovación: Cuando Sostenibilidad y Competitividad se dan la Mano* (with del Río, P. and Könnölä, T.). Barcelona: Ediciones Deusto, 2010. M -15193-2010.
- *Eco-innovation: When Sustainability and Competitiveness Shake Hands* (with del Río, P. and Könnölä, T.). Hampshire: Palgrave Macmillan, 2009. ISBN: 978-0-230-20206-1. Rights in Spanish sold to Ediciones Deusto. Rights in Chinese sold to Shanghai Scientific & Technical Publishers.
- “Towards a sustainable development through eco-innovation” (with Könnölä, T.) In R.A. López (ed.), *Progress in Sustainable Development Research*. New York: Nova Science Publishers, 2008. ISBN: 1-60021-847-4: 1-34.
- “La economía de la Unión Europea (III): Principales políticas comunes. La protección del medio ambiente.” In E. Martínez and J.M. García (coord.), *Economía Mundial*, Editorial Ariel, 2002. ISBN 978-84-344-2193-6: 417-432.
- “Liberalismo económico.” In R. Pampillón, (dir.) *Análisis Económico de Países*, McGraw-Hill, 1999. ISBN: 8448123433: 301-318.

6.3. WORKING PAPERS

- “Consumer Behavior and Circular Economy: Bibliometric and Content Analysis” (with Martínez-Infante, C. and Kiefer C.P.) *Working Paper Series of the Chair of Corporate Social Responsibility, Universidad de Alcalá*, 1/2023 (ISSN: 2530-1292).
- “Economía Circular y Turismo: El Negocio Hotelero en la Isla de Lanzarote” (with Gutiérrez, S.) *Serie Working Paper Series of the Chair of Corporate Social Responsibility, Universidad de Alcalá*, 2/2021 (ISSN: 2530-1292).

- “Guía para el emprendimiento de negocios circulares” (with García, Víctor) *Working Paper Series of the Chair of Corporate Social Responsibility, Universidad de Alcalá*, 4/2018 (ISSN: 2530-1292).
- “Alternatives for the eco-innovation of business models: a conceptual reference to valueholders” (with Peralta, A. and Crecente, F.) *Working Paper Series of the Chair of Corporate Social Responsibility, Universidad de Alcalá*, 2/2018 (ISSN: 2530-1292).
- “A taxonomy of eco-innovation types in firms” (with Kiefer, C.P. and del Río, P.) *Working Paper Series of the Chair of Corporate Social Responsibility, Universidad de Alcalá*, 1/2018 (ISSN: 2530-1292).
- “The urban dimension of the circular economy: Reflections from selected case studies” (with Rodríguez-Coello, D.) *Working Paper Series of the Chair of Corporate Social Responsibility, Universidad de Alcalá*, 1/2017 (ISSN: 2530-1292).
- “Eco-innovación para la sostenibilidad: Una exploración de su estructura subyacente” (with del Río, P., Kiefer, C.P. and Callealta, F.J.) *Working Paper Series of the Chair of Corporate Social Responsibility, Universidad de Alcalá*, 1/2016 (ISSN: 2530-1292).
- “Business strategies and capacities for eco-innovation.” (with del Río, P., Könnölä, T. and Bleda, M.) *IE Business School Working Paper EC-124*, 2011.
- “Governance of energy system transition: Theoretical framework and empirical analysis in Europe.” (with Könnölä, T. and Loikkanen, T.) *IE Business School Working Paper 10-05*, 2010.
- “Governance of energy system transition: Analytical framework and empirical cases in Europe and beyond.” (with Könnölä, T., Loikkanen, T. and van der Have, R.) *VTT Technical Research Centre of Finland Working Papers 134*, 2009.
- “System transition: Concepts and framework for analysing energy system research and governance.” (with Könnölä, T. and van der Have, R.) *IE Business School Working Paper 08-31*, 2008
- “System transition: Concepts and framework for analysing energy system research and governance.” (with Könnölä, T. and van der Have, R.) *VTT Technical Research Centre of Finland Working Papers 99*, 2008.
- “An empirical analysis of institutional barriers to European hydrogen RD&D cooperation.” (with Könnölä, T., del Río, P., Pombo-Juárez, L. and Unruh, G.) *IE Business School Working Paper 13/07*, 2007.
- “Post-Kyoto scenarios: challenges and opportunities for the European electricity sector.” (with del Río, P., García, C. and Könnölä, T.) *IE Business School Working Paper 26/06*, 2006.
- “Prospective Voluntary Agreement: Escaping Carbon Lock-in.” (with Könnölä, T. and Unruh, G.) *IE Business School Working Paper 23/04*, 2004.
- “Technology and the environment: An evolutionary approach to sustainable technological change.” *IE Business School Working Paper 02/04*, 2004.
- “An evolutionary approach to the process of technology diffusion and standardization.” *IE Business School Working Paper 20/03*, 2003.
- “Technology transfer and sustainable development in emerging economies: The problem of technology lock-in.” (with Chafla, P.) *IE Business School Working Paper 01/03*, 2003.

6.4. REPORTS

- *Innovación verde en América Latina y el Caribe: Marco conceptual* (with Könnölä, T., del Río, P. and Díaz, F.) Banco Interamericano de Desarrollo - División de Competitividad, Tecnología e Innovación, Nota Técnica N° IDB-TN-2704, May 2023.
- *Innovación verde en América Latina y el Caribe: Estudio de casos sobre la gestión de programas de apoyo* (with Könnölä, T., del Río, P. and Díaz, F.) Banco Interamericano de Desarrollo - División de Competitividad, Tecnología e Innovación, Nota Técnica N° IDB-TN-2703, May 2023.
- *Modelling Value Creation for Airlines Competitiveness* (with Navarro-Meneses, F.J. and Pablo-Martí, F.). Universidad de Alcalá, 2016.
- *El Sector Retail como Motor de Cambio hacia la Sostenibilidad de la Producción y el Consumo* (with del Río, P. and Könnölä, T.). IE Foundation - Ernst & Young, 2012.
- *Hacia una Empresa Baja en Carbono* (with del Río, P. and Könnölä, T.). IE Business School - Gas Natural Fenosa, 2011.
- *Hacia una Economía Sostenible: Concepto, Vectores de Cambio y Experiencia* (with del Río, P. and Könnölä, T.). IE Business School – PricewaterhouseCoopers, 2010.
- *Marketing de Productos y Servicios Sostenibles: Donde la Innovación Crea Valor*, Cap. 3 (with del Río, P. and Könnölä, T.). Fundación Entorno, 2010.
- *El Papel de la Ingeniería como Motor de la Eco-Innovación en Europa* (with García Suárez, C. and Könnölä, T.). IE Business School - Fundación Ingeniería y Sostenibilidad, 2007.
- *El Entorno Competitivo del Sector Eléctrico Europeo en los Escenarios Post-Kioto* (with del Río, P., García Suárez, C. and Könnölä, T.). IE Business School – PricewaterhouseCoopers, 2007.

6.5. EDUCATIONAL MATERIALS

Author of more than 20 discussion cases and e-learning materials, used during the last few years by some thousands of students and awarded in different occasions.

6.6. PRESS ARTICLES AND MEDIA MENTIONS

More than 100 articles, interviews and quotations in Wall Street Journal, Financial Times, BBC Radio, TVE, Antena 3 TV, Universia Knowledge@Wharton, Forbes Magazine, Actualidad Económica, Expansión, Cinco Días, among others. Frequent collaborator in the IE Business School Weblogs (Economy, Energy & Industry, Corporate Responsibility): more than 70 contributions since 2007.

7. CONFERENCE PRESENTATIONS

Peer-reviewed academic conferences

- “Barreras y determinantes a la introducción de eco-innovaciones circulares en las empresas” (with del Río, P. and Christoph, K.) *Congreso de Sostenibilidad y Economía Circular Aplicada*, Consejo Superior de Investigaciones Científicas, 11-12 December 2024, Madrid.
- “A Theoretical Framework for Eco-innovation's Capabilities: an Integrative Literature Review ” (with El Ouardi, B., Chistov, V. and Boungab, S.) *2nd Workshop Ecoinnovation Society*, 28-29 November, Paris.
- “The relationships between firm capabilities, eco-innovation and performance: taking stock and setting the research agenda” (with El Ouardi, B., Chistov, V. and Boungab, S.) *XXXIII International Conference ACEDE 2024*, 16-18 June, Valencia, Spain.
- “Towards a circular economy and performance management model: exploring implementation and evaluation in the manufacturing industry” (with Mora-Contreras, R., Torres-Guevara, L.E., and Mejía-Villa, A.) *XXXIII International Conference ACEDE 2024*, 16-18 June, Valencia, Spain.
- “Antecedents of circular economy performance: Empirical evidence from Spanish supply chains” (with de Oliveira, D., Kiefer, C.P., Moyano-Fuentes, J. and Maqueira-Marín, J.M.) *11th EurOMA Sustainable Operations and Supply Chains Forum*, 4-5 March 2024, KLU, Hamburg, Germany.
- “Open Eco-innovation: Exploring the influence of eco-innovation objectives on the choice of knowledge partners and Open Innovation modes” (with Chistov, V. and Aramburu, N.) *10th Annual World Open Innovation Conference (WOIC)*, 9-10 November 2023, Bilbao, Spain.
- “How open innovation affects the radicalness of eco-innovation” (with Chistov, V. and Aramburu, N.) *32nd International Conference ACEDE 2023*, 25-27 June 2023, Alicante, Spain.
- “Open and radical: How cooperation and external knowledge affect the radicalness of eco-innovation” (with Chistov, V. and Aramburu, N.). *8th International Conference on New Business Models NBM2023: Building partnerships for more sustainable, resilient and regenerative business models*, 22-23 June 2023, Maastricht, Netherlands.
- “Circular economy, cleaner production and environmental management: A longitudinal study to assess the companies' sustainability performance in an emerging economy” (with Mora-Contreras R. et al.), 4th Symposium on Circular Economy and Sustainability. 09-21 June 2023, Heraklion, Greece.
- “Modelling the entrepreneur's decision on which practice use to create sustainable businesses” (with Peralta, A. y Crecente, F.J.), *80th Annual Meeting of the Academy of Management*, 7-11 August 2020, Vancouver, BC, Canada.
- “How governance paradigms and other drivers affect public managers acceptance of innovation practices” (with Peralta, A. y Rubalcaba, L.), *80th Annual Meeting of the Academy of Management*, 7-11 August 2020, Vancouver, BC, Canada.
- “Bibliometric analysis of open eco-innovation research” (with Chistov, V. and Aramburu, N.), *GRONEN Conference 2020*, 17-19 June 2020, Virtual Event.
- “Theoretical development of Open Eco-innovation: Systematic literature review” (with Chistov, V. and Aramburu, N.), *I Simposio de la Sección Empresa y Sociedad de ACEDE (Asociación Científica de Economía y Dirección de la Empresa)*, 8 November 2019, UGR, Granada, Spain.
- “On the contribution of eco-innovation to a circular economy. A micro-level quantitative approach” (with Kiefer, C. and del Río, P.), *I Foro Internacional en Economía Circular, Eco-innovaciones y Turismo*, 17-18 October 2019, UAM, Madrid, Spain.
- “Building a taxonomy of eco-innovation types in firms: A quantitative perspective” (with Kiefer, C. and del Río, P.), *European Society for Ecological Economics (ESEE)*, 18-21 June 2019, Turku, Finland.
- “Triple bottom line goals and acceptance of business model eco-innovation methods: Factors from an empirical research on Spanish entrepreneurs” (with Peralta, A. and Crecente, F.J.), *78th Annual Meeting of the Academy of Management (AOM)*, 10-14 August 2018, Chicago, USA.
- “Drivers and barriers of different eco-innovation types in firms: A quantitative, resource-based perspective” (with Kiefer, C. and del Río, P.), *The 24th International Sustainable Development Research Society (ISDRS) Annual Conference*, “Actions for a Sustainable World: from theory to practice”, 13-15 June 2018, Messina, Italy.

- “Drivers and barriers of different eco-innovation types in firms: A quantitative, resource-based perspective” (with Kiefer, C. and del Río, P.), *XXIX ISPIM (International Society for Professional Innovation Management) Innovation Conference*, 17-20 June 2018, Stockholm, Sweden.
- “Diversity of eco-innovations: A quantitative approach” (with Kiefer, C., del Río, P. and Callealta, F.J.), *XXVII Congreso Anual de ACEDE (Asociación Científica de Economía y Dirección de la Empresa)*, 18-20 June 2017, Aranjuez, Spain.
- “Towards a better understanding of the concept of eco-innovation” (with del Río, P., Kiefer, C. and Callealta, F.J.) *22nd International Sustainable Development Research Society Conference (ISDRS)*, 13-15 July 2016, Lisbon, Portugal.
- “Hacia una mejor comprensión de la eco-innovación como motor de la competitividad sostenible” (with del Río, P., Kiefer, C. and Callealta, F.J.) *VIII Workshop de la Sección de Estrategia Empresarial de ACEDE (Asociación Científica de Economía y Dirección de Empresa)*, 22 Feb. 2016, Albacete, Spain.
- “University Marketing and Social Responsibility: The University of Alcalá de Henares.” (with Sánchez-Hernández, M.I. et al.) *The 6th International Congress on Teaching Cases related to Public and Nonprofit Marketing*, The International Association on Public and Nonprofit Marketing (AIMPN / IAPNM), 13 Dec. 2014, Coimbra, Portugal.
- “Business strategies and capacities for eco-innovation.” (with del Río, P., Könnölä, T. and Bleda, M.) *CIKI 2012: II Congreso Internacional de Conocimiento e Innovación*, III Meeting of the Project “Dynamic SME: Sustainable Competitiveness of SMEs in Turbulent Economic and Social Environments” (Marie Curie Action – 7FP UE). 27 Sept.-2 Oct. 2012, Madrid, Spain.
- “Business strategies and capacities for eco-innovation.” (with del Río, P., Könnölä, T. and Bleda, M.) *XXIII ISPIM (International Society for Professional Innovation Management) Conference – Action for Innovation: Innovating from Experience*. 17-20 June 2012, Barcelona, Spain.
- “Industrial policy strategies to promote eco-innovation.” (with del Río, P. and Könnölä, T.) *European Network on Industrial Policy (EUNIP) 2008 International Conference*, 10-12 Sept. 2008, San Sebastian, Spain.
- “Dashboard of Eco-innovation.” (with Könnölä, T. and del Río, P.) *DIME International Conference “Innovation, sustainability and policy”*, 11-13 Sept. 2008, GREThA, University Montesquieu Bordeaux IV, France.
- “System Transition: Concepts and Framework for Analysing Nordic Energy System Research and Governance.” (with Könnölä, T. and van der Have, R.) *DIME International Conference “Innovation, sustainability and policy”*, 11-13 Sept. 2008, GREThA, University Montesquieu Bordeaux IV, France.
- “Post-Kyoto scenarios: challenges and opportunities for the European electricity sector.” (with del Río, P., García, C. and Könnölä, T.) *7th International Conference of the European Society for Ecological Economics*, 5-8 June 2007, Leipzig, Germany.
- “An empirical analysis of institutional barriers to European hydrogen RD&D cooperation.” (with Könnölä, T., del Río, P., Pombo-Juárez, L. and Unruh, G.) *5th European Meeting on Applied Evolutionary Economics*, 17-19 May 2007, Manchester, UK.
- “Techno-environmental policies: Dealing with the environmental consequences of technological lock-in.” *6th International Conference of the European Society for Ecological Economics*, 14-17 June 2005, Lisboa, Portugal.
- “Prospective Voluntary Agreement: Escaping Carbon Lock-in.” (with Könnölä, T. and Unruh, G.) *4th International Conference on Business and Sustainable Performance*, 14-15 April 2005, Aalborg, The Netherlands.
- “Prospective voluntary Agreement: Escaping Techno-institutional lock-in.” (with Könnölä, T. and Unruh, G.) *EU-US Scientific Seminar on New Technology Foresight, Forecasting & Assessment Methods*, 13-14 May 2004, Sevilla, Spain.
- “Las nuevas relaciones Empresa/Administraciones frente a las presiones medioambientales: un marco teórico-práctico para la construcción de Acuerdos Voluntarios Ambientales eficientes y estables en el contexto español y latinoamericano” (with Chafla, P. and García-Suárez, C.), *VI Congreso Nacional del Medio Ambiente*, 25-29 Nov. 2002, Madrid, Spain.

Invited seminars

More than 20 invited presentations at different academic and practitioner conferences, both national and international.

8. DOCTORAL SUPERVISION

Dissertation: *Multidimensional Model for the Circular Economy in Manufacturing Companies: From Implementation to Sustainability Performance Improvement*.

PhD Student: Rafael Iván Mora Contreras.

Participation: Director, together with Andrés Mejía Villa y Luz Elba Torres Guevara, Associate Professors, Universidad de La Sabana.

Defense date: 7 April 2025.

Dissertation: *Open Innovation as a tool for Ecopreneurs and Eco-innovators*

PhD Student: Valery Chistov.

Participation: Director, together with Nekane Aramburu, Associate Professor, Deusto Business School.

Defense date: 2 October 2023. *Summa Cum Laude*.

Dissertation: *How Good is Lean Startup at Helping Sustainable Business Models Succeed?*

PhD Student: Alberto Peralta Belmont.

Participation: Director, together with Fernando Crecente, Associate Professor, Universidad de Alcalá.

Defense date: 9 September 2019. *Summa Cum Laude*.

Dissertation: *Resources, Capabilities and Competences for Business Eco-innovation*.

PhD Student: Christoph Patrick Kiefer

Participation: Director, together with Pablo del Río, Senior Scientist, Consejo Superior de Investigaciones Científicas.

Defense date: 28 June 2017. *Summa Cum Laude*.

Dissertation: *Las externalidades de información en el acceso de las empresas a los mercados internacionales*.

PhD Student: Raúl Mínguez Fuentes.

Participation: Director, together with Juan Ramón Cuadrado Roura, Full Professor, Universidad de Alcalá.

Defense date: 7 April 2017. *Summa Cum Laude*.

Dissertation: *Complexity-based view of the firm: new horizons in the theory and practice of the firm*.

PhD Student: Francisco Javier Navarro Meneses.

Participation: Director, together with Federico Pablo Martí, Associate Profesor, Universidad de Alcalá.

Defense date: 3 June 2016. *Summa Cum Laude*.

9. ACADEMIC SERVICE

- Referee, among others, for Business Strategy and the Environment, Corporate Social Responsibility and Environmental Management, Journal of Cleaner Production, Journal of Industrial Ecology, Ecological Economics, Energy Policy, Industry and Innovation, Technological Forecasting and Social Change (all indexed in JCR).
- Steering Board member of the Eco-innovation Society, 2021-present.
- Vice President of the Business and Society Section, ACEDE - Spanish Academy of Management, 2024-present.
- Member of the CT-41 Technical Committee on "Innovation in the circular economy: strategies and new business models", CONAMA (National Congress of the Environment) 2022.
- Guest Editor, Corporate Social Responsibility and Environmental Management, Special Issue on "Sustainable Innovation: Processes, Strategies, and Outcomes", 2019.
- Member of the Editorial Board, International Journal Environmental Economics, 2019-present.
- Independent Expert, convened by the Commission for the Economic and Social Recovery of the Autonomous Community of Madrid, Assembly of Madrid, 2020.
- Member, Selection Board of the Corps of Information Technology Systems, Spanish Ministry of Territorial Policy and Public Function, 2019.
- Member of the panel of experts and businessmen of the PwC Economic and Business Consensus, 2018-present.
- Member, Expert Panel on Industrial Sustainability in Spain, established by the Spanish Ministry of Economy, Industry and Competitiveness to assist in the development of the national Strategic Framework for the Spanish Industry, 2017.
- Jury Member, European Business Awards for the Environment 2011/2012 – Spanish section. Given by the European Commission and, in Spain, by the Fundación Entorno (World Business Council for Sustainable Development) and presided by their Royal Highnesses the Prince and Princess of Asturias.

- Expert, Spanish National Evaluation and Foresight Agency (Agencia Nacional de Evaluación y Prospectiva), Spanish Ministry of Science and Innovation, 2010.
- Referee for the Academy of Management Annual Meeting, Theme: Green Management Matters. Chicago, Illinois, USA. 7-11 August 2009.
- Independent Expert, assisting the European Commission with the evaluation of FP7 proposals for Theme 6 “Environment (including climate change)”, 2008.
- Author, Encyclopedia of Earth – approved by the Stewardship Committee of the Environmental Information Coalition.
- Referee for The Business Association for Latin American Studies (BALAS) Annual Conference, “Service Industry” track. IE Business School, Spain. 25-28 May 2005.
- Referee for the IE Business School Case Writing Competition, 2005.
- Referee for The Business Association for Latin American Studies (BALAS) Annual Conference, “Non-market environment (social, political, and ethical issues)” track. Babson College, Wellesley, Massachusetts, USA. 19-22 May 2004
- Referee, INCAE Case Writing Competition, 2004.
- Independent Expert, representing the Spanish Government in the Working Group on Innovation and Technology Policy, under the Committee for Scientific and Technological Policy at the Organization for Economic Co-operation and Development (OECD), 2002.

10. LANGUAGE SKILLS

- English – sound working knowledge (C1-C2 CEFR).
- French – intermediate level.
- Spanish – native language.

11. REFERENCES

- Dr. Gregory Unruh, Professor, School of Management, George Mason University (+1 703-993-1880; gregoryunruh@gmail.com).
- Dr. Santiago Íñiguez, President, IE University (+34 91 7452129; Santiago.Iniguez@ie.edu).
- Dr. Luis Felipe Rivera, Dean, Faculty of Economics, Business and Tourism, University of Alcalá (+34 91 8854205 / 5152; luisf.rivera@uah.es).
- Mr. Jordi Sevilla, former Minister of Public Administration, Government of Spain (+34 916502012).
- Dr. Carlos García Suárez, Project and Market Director Solar Energy, COWI (+34 607308450; carlgsuarez@gmail.com).