



CURRICULUM VITAE (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

CV date	2022-01-14
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Part A. PERSONAL INFORMATION

First name	Luis Ángel		
Family name	Fernández Cuadrado		
Gender (*)	Male	Birth date (dd/mm/yyyy)	25/02/1959
Social Security, Passport, ID number	14932041G		
e-mail	luis-angel.fernandez@ehu.eus	Web URL:	https://www.ehu.eus/es/web/ibea/equipo-investigador
Open Research and Contributor ID (ORCID)(*)	C-3973-2017 & 26221580700		

(*) Mandatory

A.1. Current position

Position	Full Professor		
Initial date	2001-03-16		
Institution	University of The Basque Country (UPV/EHU)		
Department/Center	Analytical Chemistry/Faculty of Science and Technology		
Country	Spain	Teleph. number	+34 946012723
Key words	Analytical Chemistry, Method Development, Chemical Equilibria, Automation, Chemometrics, Environment		

A.2. Previous positions (research activity interruptions, art. 45.2.c)

Period	Position/Institution/Country/Interruption cause
1991-2001	Assistant Professor
1988-1991	Dep. Assistant Professor

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD	UPV/EHU - Spain	1987
Bachelor of Science	UPV/EHU - Spain	1981

Part B. CV SUMMARY (max. 5000 characters, including spaces)

Bachelor of Science (Chemistry) from the University of the Basque Country (UPV / EHU) in 1981. Basque Government pre-doctoral fellow (1983-1986) at the Royal Institute of Technology in Stockholm, Sweden. Obtained the title of 'Licenciat i Teknologi' in 1986. Doctor from the UPV / EHU in 1987.

Awarded with a Reincorporation Scholarship from the Basque Government during 1986-87. Hired by the UPV / EHU as Associate Professor since December 1987. Assistant Professor at the UPV / EHU in 1991 and Full Professor at the same university since 2001. The teaching activity at the UPV / EHU has been focused on subjects specific to the area of knowledge of Analytical Chemistry in the degrees of Chemistry, Fine Arts as well as in the Doctoral Programs of Environmental Chemistry, Pollution and Toxicology and Marine Environment and Resources taught at this university.

The research activity translates into the publication of about one hundred and twenty scientific articles, participation in more than 40 Research Projects (11 as IP) and about 30 Research Contracts. Member of the *IBeA* Consolidated Group of Excellence Type A of the Basque Government (see web URL) made up of 16 PhDs from the Department of Analytical Chemistry of the UPV / EHU, 6 PICs, 12 official scholarship holders and a variable number of Master and TFG students and the Unit of Training and Research (UFI) of the UPV / EHU called *Global Change and Heritage*, made up of the union of the *IBeA* group together with 2 other Research Groups of Excellence from the Departments of Hydrogeology and Archeology of the UPV / EHU.

His initial training as a researcher took place in the field of Solution Equilibria (Bachelor's Thesis) and in the Physical-Chemistry of the processes of transport of metals and acids through membranes. Subsequently, aspects related to the development of analytical methodologies and automated analysis systems were incorporated for their application in various types of situations, mainly related to the use of clean technologies and the environment. As a summary, it could be indicated that it is the combination of aspects such as *analytical methodology, equilibrium, chemistry-physics, separation processes, instrumentation, automation, programming and chemometrics*, among others, which has allowed to carry out a varied research activity but fundamentally oriented to the resolution and interpretation of problems of various kinds.

It should be noted, as one of the research interests that has stood out the most in recent years, the study of phenomena related to climate change and its impact in various contexts in which these phenomena are intermingled with the adverse effects derived from environmental pollution. Such is the case of scenarios like chronic contamination of degraded areas from mining activities, built historical heritage or acidification in estuarine areas and its effects on several biogeochemical compartments such as water, sediments and biota.

Part C. RELEVANT MERITS (*sorted by typology*)

C.1. Publications (*see instructions*)

- Bueno, Maite; Duval, Bastien; Tessier, Emmanuel; Romero-Rama, Andrea; Kortazar, Leire; Fernandez, Luis Angel; De Diego, Alberto; Amouroux, David; Selenium distribution and speciation in waters of pristine alpine lakes from central-western Pyrenees (France-Spain). *Environmental Science: Processes & Impacts*. Accepted 2022.
- O. Gómez, J.A. Carrero, L.A. Fernández, Editors, Georaman 2020, 14th International Georaman Conference. Book of Abstracts, ISBN: 978-84-1319-295-6
- L. Kortazar, L. A. Fernández, Uraren azidotasunari buruzko ikerketa Bizkaiko hiru estuariotan: Urdaibai, Plentzia eta Nerbioi-Ibaizabal, *Ekaia*, ale berezia 2020, 125-144. <https://doi.org/10.1387/ekaia.21030>
- Leire Kortazar, Bastien Duval, Olaia Liñero, Olaia Olamendi, Ainhoa Angulo, David Amouroux, Alberto de Diego, Luis Angel Fernandez, Accurate determination of the total alkalinity and the CO₂ system parameters in high-altitude lakes from the Western Pyrenees (France–Spain), *Microchemical Journal*, 2020, 152, 104345. <https://doi.org/10.1016/j.microc.2019.104345>.

- Kepa Castro, Alberto de Diego, Luis Angel Fernández, Mireia Irazola, PIRINIOETAKO ANTZIRAK. OFIZIOAK AFIZIOAREKIN BAT EGIN DUEN EREMUA, Pyrenaica, 276, 70-75, 2019.
- L. Kortazar, D. Milea, O. Gómez-Laserna, L.A. Fernández, Accurate Determination of Total Alkalinity in Estuarine Waters for Acidification Studies, Trends in Analytical Chemistry, 114, 69-80, 2019.
- L. Mijangos, H. Ziarrusta, O. Ros, L. Kortazar, L.A. Fernández, M. Olivares, O. Zuloaga, A. Prieto, N. Etxebarria, Occurrence of emerging pollutants in estuaries of the Basque Country: Analysis of sources and distribution, and assessment of the environmental risk, Water Research 147, 152-163, 2018.
- L. Blanco-Zubiaguirre, A. Cabezas, J. A. Carrero, L. A. Fernández, M. Olivares, K. Castro, J. M. Madariaga, Mixed-mode SPE followed by GC-MS analysis to determine water soluble organic compounds in aerosol and historical mortars affected by marine atmosphere: The case of Punta Begoña Galleries (Getxo, North of Spain), Talanta 189, 31-38, 2018.
- J.A. Carrero, L.A. Fernández, O. Gómez, L. Gómez, Editors, TECHNART 2017 Non-destructive and Microanalytical Techniques in Art and Cultural Heritage. Book of Abstracts, ISBN: 978-84-9860-614-0
- A. Villar, J. Vadillo, J. I. Santos, E. Gorritxategi, J. Mabe, A. Arnaiz, L. A. Fernández, Cider fermentation process monitoring by Vis-NIR sensor system and chemometrics, Food Chemistry 221, 100-106, 2017.
- J. Saez, G. Arana, L. A. Fernandez, F. Benito-Lopez, Ionogel-based nitrite and nitrate sensor for water control at the point-of-need, Procedia Engineering. 168, pp. 518 - 521, 2016.
- E. Bizkarguenaga, A. Iparraguirre, E. Oliva, J. B. Quintana, R. Rodil, L. A. Fernández, O. Zuloaga, A. Prieto, Uptake of polybrominated diphenyl ethers by carrot and lettuce crops grown in compost-amended soils, Environmental Science and Pollution Research 4, 3847-3859, 2016.
- E. Bizkarguenaga, I. Zabaleta, L. Mijangos, A. Iparraguirre, L.A. Fernández, A. Prieto, O. Zuloaga, Uptake of perfluorooctanoic acid, perfluorooctane sulfonate and perfluorooctane sulfonamide by carrot and lettuce from compost amended soil, Science of The Total Environment 571, 444-451, 2016.
- E. Bizkarguenaga, I. Zabaleta, A. Prieto, L. A. Fernández, O. Zuloaga, Uptake of 8:2 perfluoroalkyl phosphate diester and its degradation products by carrot and lettuce from compost-amended soil Chemosphere, 152, 309-317, 2016.
- L. Kortazar, S. Alberdi, E. Tynan, L. A. Fernández, An adapted flow injection analysis method of phosphate for estuarine samples avoiding matrix effects, Microchemical Journal, 124, 416-421, 2016.

C.2. Congresses

Approximately 120 contributions

C.3. Research projects

- Enfoque multiescala para identificar (micro)plásticos y entender su transporte, impacto distribución e interacción con elementos traza en compartimentos ambientales, Ministerio de Ciencia e Innovación (REF. PID2020-118685RB-I00); Departamentos de Química Analítica y Zoología y Biología Celular Animal, UPV/EHU; Septiembre 2021 to: Septiembre 2025; Leader: Drs. Manuel Soto and Urtzi Izaguirre.
- Líquidos iónicos como solución innovadora para una economía sostenible en Euskadi (LION) Gobierno Vasco - Programa Elkartek (REF. KK-2018/00102 LION); Departamento de Química Analítica, UPV and others (Leader: Tecnalia); Marzo 2018 to: Diciembre 2018
Leader: Dr. Luis A. Fernández (for UPV/EHU-QA).
- Síntesis, caracterización y validación de productos híbridos sostenibles nano reforzados de carácter multifuncional para la recuperación y protección de superficies pétreas (PHETRUM); MINECO (REF.: CTQ2017-82761-P); Departamento de Química Analítica, UPV/EHU; Enero 2018 to: Diciembre 2020
Leader: Dr. María Ángeles Olazabal.
- Desarrollo de un sistema avanzado y sostenible para la cría en cautividad del múgil (AKURA); Gobierno Vasco - Dirección de Pesca y Agricultura (REF. 33-2017-00250 AKURA); Departamento de Química Analítica, UPV/EHU and others (Leader: Gaiker); Noviembre 2017 to: Julio 2019; Leader: Dr. Alberto de Diego (for UPV/EHU-QA)

- Soluciones basadas en líquidos iónicos para diversificar las oportunidades de la industria vasca (LISOL); Gobierno Vasco - Programa Elkartek (REF. KK-2016 00095 LISOL); Departamento de Química Analítica, UPV and others (Leader: Tecnalia): Marzo 2016 to: Abril 2017; Leader: Dr. Luis A. Fernández (for UPV/EHU-QA)
- Red de observatorios de ecosistemas sensibles (lagos, turberas) al cambio climático en el Pirineo (REPLIM); Comunidad Europea, Programa Interreg V A España-Francia-Andorra (POCTEFA) 2014-2020 (Ref: EFA056/15): Departamento de Química Analítica, UPV/EHU and others (Leader: Instituto Pirenaico de Ecología IPE-CSIC); 01/07/2016 to 30/06/2019
Leader: Dr. Alberto de Diego (for UPV/EHU-QA); Dr. Blas Valero (Coordinador General)

C.4. Contracts, technological or transfer merits

- Convenio de colaboración entre el Ayuntamiento de Getxo y la UPV/EHU para la puesta en valor del inmueble histórico cultural Galerías de Punta Begoña. Financed by: Ayuntamiento de Getxo; Departamento de Química Analítica UPV/EHU; Mar. 2014 to: Mar. 2016; Leader: Dr. Juan Manuel Madariaga; Total amount: 937119,95 Eur.
- Pretratamiento de naipes para anular los efectos del marcado con tintas IR absortivas. Financed by: Naipes Heraclio Fournier, S.A; Departamento de Química Analítica UPV/EHU; Sep. 2014 to: Ago. 2015
Leader: Dr. Gorka Arana; Total amount: 24000,00 Eur.
- Puesta a punto y evaluación de naipes con barniz acuoso para anular los efectos de marcado con tintas IR; Financed by: Naipes Heraclio Fournier, S.A; Departamento de Química Analítica UPV/EHU; Sep. 2013 to: Ago. 2014; Leader: Dr. Gorka Arana; Total amount: 24000,00 Eur.
- Estudio de la puesta a punto y evolución de naipes con un nuevo tratamiento para anular los efectos del marcado con tintas IR. Financed by: Naipes Heraclio Fournier, S.A; Departamento de Química Analítica UPV/EHU; Sep. 2012 to: Ago. 2013; Leader: Dr. Gorka Arana; Total amount: 24000,01 Eur.
- Estudio de la evolución de naipes pretratados para anular los efectos del marcado con tintas IR. Financed by: Naipes Heraclio Fournier, S.A; Departamento de Química Analítica UPV/EHU; Sep. 2011 to: Ago. 2012; Leader: Dr. Gorka Arana; Total amount: 24000 Eur.