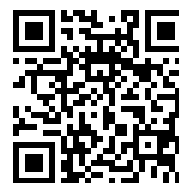


José Lorenzo Alonso Gómez



J. L. Alonso-Gómez studied **Chemistry** at the University of Vigo 1996-2001. He worked at the quality laboratory of the Spanish Navy (1996) and at the paint company Galpi S.L. (2000) and attended several training courses. In 2006, he obtained his PhD from the University of Vigo under the supervision of M. Cid with “Colaboración-MEC”, “predoc-Xunta” and “FPI-MEC” fellowships. During this period he also completed two stays at ETH Zurich in the group of F. Diederich for six and three months, supported by “Estancia-MEC” fellowships. His PhD thesis was awarded with “**Premio Extraordinario**” and “**Doctorado Europeo**”.

Invited by F. Diederich, he moved to ETH Zurich to carry out postdoctoral research for 30 months. In 2009, he stayed at Columbia University in New York as a visiting scientist for half a year. In 2010, he returned to University of Vigo with the research program “Isidro Parga Pondal” from Xunta de Galicia 2010-2014, from which he obtained a positive evaluation. Currently, he continues at the same institution with a Ramón y Cajal contract 2014-2019.

The research of J. L. Alonso-Gómez began with the exploration of **macrocycles with novel morphologies** during his **PhD**. After, he worked on the synthesis of **enantiopure macromolecules** during his postdoctoral stay at **ETH Zurich** and the **theoretical study of their outstanding chiroptical responses** (<http://www.smartchiralframeworks.com/strong-chiroptical-responses.html>), and **absolute configuration determination** (<http://www.smartchiralframeworks.com/ac-determination.html>) at **Columbia University** with N. Berova. An **Isidro Parga Pondal** contract in 2010 followed by a **Ramón y Cajal** contract in 2014 allowed Alonso-Gómez to initiate an **independent career at the University of Vigo** with the following new **research lines**:

- **Chirality in Nanoparticles** (<http://www.smartchiralframeworks.com/chiral-nps.html>)
- **Covalent Organic Helical Cages** (<http://www.smartchiralframeworks.com/covalent-organic-helical-cages.html>)
- **From Allenes to Spiranes** (<http://www.smartchiralframeworks.com/from-allene-to-spirane.html>)
- **3D Chirality on Surfaces** (<http://www.smartchiralframeworks.com/chiral-surfaces.html>).

The **relevance** of this research is reflected in:

- Publication in **high-impact journals** such as Angewandte Chemie International Edition, Chemical Communications or Nano Today, with an **average impact factor** of **6** over the period **2005-2015** (<http://www.smartchiralframeworks.com/journal-articles.html>, Scopus author ID 8649231000, Ordid number 0000-0002-6107-0120)
- **Since 2009**, over a dozen of **Invited and Oral Talks** in international and national conferences, as well as in international and national research institutes (<http://www.smartchiralframeworks.com/oral-presentations.html>).
- **Principal Investigator** permanently over the period **2011-2019**, with a total of **seven international, national, and regional projects** with **400 k€** overall budget.
- **Coordinator** of the **network CHIROPTICS** (www.chiroptics.net).
- **Stays** at prestigious international research institutes like **ETH Zurich, Columbia University** and **Technical University of Munich** where his work enabled interinstitutional publications.
- **ANEP evaluator**, 11 evaluations since 2011.

The candidate is interested in **technology transfer** of the systems developed by his team. One of the objectives of the “Explora Ciencia” project entitled “Smart Chiral Frameworks to Control and Inhibit Corrosion” is to file a patent with the main results. J. L. Alonso-Gómez has diverse **collaborations** to achieve the main goals of his multidisciplinary research (<http://www.smartchiralframeworks.com/collaborations.html>). To reinforce the already established collaborations and to broaden the impact of technology transfer with new collaborations (<http://www.chiroptics.net/motivation.html>), Alonso-Gómez often **stays at** different **international institutes** and recently applied for a “**Red de Excelencia**” entitled CHIROPTICAL systemS (www.chiroptics.net). In order to make his research more visual, the candidate has set up the **website** www.smartchiralframeworks.com.

The **teaching** experience of the candidate started during his PhD but has gained more importance after starting his independent career with the **coordination of several subjects** and over ten years of experience in **Chemistry, Engineering, and Biology Faculties**. He also participates in the “Chemical Research & Industrial Chemistry” **interuniversity Master** and has co-supervised (two supervisors) three master students and one PhD thesis. Currently, he is supervising a **Master student** and a **postdoctoral researcher**, and co-supervising (two supervisors) two **PhD students**. In order to innovate in teaching, the candidate has a **portfolio** (joselorenzoalonsogomez.weebly.com) and has attended several courses. The internal **evaluations** of his host institution show continuous improvement from the start. The current evaluations are **above the average** rating within the institution.

To facilitate the understanding of fundamentals of general Chemistry, the candidate created a **blog** (<http://joselorenzoalonsogomez.weebly.com/blog-quiaceutmica>) and for Master and PhD students he wrote two **reviews** (<http://www.ingentaconnect.com/content/ben/coc/2010/00000014/00000015/art00007> and <http://www.sciencedirect.com/science/article/pii/S1748013211000697>), one **book chapter** (<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-3527333363.html>), and gave **didactic lectures** for students at different universities (<http://www.smartchiralframeworks.com/oral-presentations.html>).

The **Management** skills of Alonso-Gómez:

- **Responsible for the research team** Smart Chiral Frameworks.
- **PI of seven research projects** (three current), two additional projects are pending decision.
- www.smartchiralframeworks.com for the **visibility of his research**.
- www.chiroptics.net a **network** to enable the application of the systems developed in his research team.
- www.indagamus.com, in collaboration colleagues from different areas, a **place for open policy discussion** concerning the visibility of Science in Society, funding distribution and human resources.