

Short Bio of Prof Ismael Díez-Pérez

Dr. Díez-Pérez obtained his degree in Chemistry from the University of Barcelona in 2001. He completed his Master's degree in Electrochemistry at the Physical Chemistry department of the same university, and continued with his PhD project trying to deepen into the fundamental aspects controlling Passivation and Corrosion processes at metal/electrolyte interfaces. An essential part of his PhD training was conducted in several international renowned institutions such as the Lawrence Berkeley National Lab in USA and the University Pierre Marie-Curie in France. His PhD research resulted in the development of a novel electrochemical tunneling spectroscopy approach to interrogate meta/electrolyte interfaces at the nanoscale; work that was awarded with the ISE-prize Hans-Jürgen-Engell in 2008. After graduating in 2006, he enjoyed a Marie-Curie fellowship to develop his postdoctoral project in Arizona State University under the supervision of Prof. Nongjian Tao. There, he explored fundamental aspects of charge transport of metal/molecule interfaces and immersed in the field of Molecular Electronics. He actively helped in the development of new single-molecule junction methods and was able to demonstrate several basic electrical behaviors in a single-molecule wire, namely, diode effect, transistor behavior and electromechanical effects. In 2011, he received an European Reintegration grand to work as a senior researcher at the Institute for Bioengineering for Catalonia, where he created a new research line in BioMolecular Electronics. In 2012, he got his assistant professor position at the Physical Chemistry department of the University of Barcelona, and tenured associate Prof in 2015. In 2017, he obtained a prestigious ERC Consolidator award focused on studying the effects of force fields in Biology. The same year, he moved to the department of Chemistry at King's College London as full Professor, where he currently supervises a wide variety of projects involving the study of fundamental charge transport in (bio)molecules, spanning from simple synthetic backbones to complex biomolecular moieties with the aim of understanding the underlying mechanisms of bioelectricity.



I am currently full Professor in Physical Chemistry and Nanochemistry at King's College London, UK. There are two main elements in my profile for why I believe I am equipped to bring a positive impact as a Chair of Division. (1) Throughout my career, I have held academic positions in very distinct parts of the world, *i.e.*, the US, Spain and the UK, which provides me with a wide picture of scientific approaches to molecular electrochemistry in most of the relevant regions covered by the ISE. (2) I have been an active ISE member since my first year of PhD 20+ years back. Throughout this journey, the ISE has recognized my research with two major ISE prizes; as a young researcher I was awarded the *ISE Prize for Electrochemical Materials Science* in 2008, and as a senior researcher, the *Jaroslav Heyrovsky Prize for Molecular Electrochemistry* in 2016. The latter has gotten me involved in numerous panels to select candidates for other prestigious ISE awards such as the *Electrochimica Acta Gold Medal* or the *ISE Award for Experimental Electrochemistry*, as well as being the principal organizer of four different symposiums in various Annual ISE Meetings. Last year, I have served as Co-Chair of Division 6. Working close with Prof. Hromadova, current Division chair, I learnt about division finances, relevant committees as well as high level ISE operations. As Division 6 chair, my main aims would be: (1) work together with the high management ISE team to consolidate the work started by our two previous elected chairs on

bringing the strongest support to early career researchers. The latter would be not only in the form of open competition for support to attend ISE conferences, but also in creating new spaces to organize dedicated symposia/forums for young investigators. (2) I will continue my personal efforts to open ISE to new scientific fields which would benefit from electrochemical tools. Since I started serving as main ISE symposia coordinator, I have brought new ISE senior members from key emerging fields to electrochemistry such as (Bio)Molecular Electronics. I strongly believe the latter to be a key aspect for the successful expansion and scientific enrichment of our society.