

Javier Roldán Pérez holds a PhD in Systems Modelling. He received the BSc degree in Industrial Engineering, the MSc degree in Electronics and Control Systems, the MSc degree in Systems Modelling, and the PhD degree in Systems Modelling, all from Comillas University, Madrid, in 2009, 2010, 2011, and 2015, respectively.

From 2008 to 2009, he worked with a scholarship at EADS Astrium Crisa. He developed a toolbox to perform advanced simulation analyses (Montecarlo, sensitivity, etc.).

From 2009 to 2014 he worked in the Institute for Research in Technology (IIT). He collaborated in R+D projects while he developed his PhD. Some of these projects were funded by public institutions (MICINN, etc.) and some other where funded by companies. He built power converters both for research and industrial purposes. He carried out academic activities like teaching, directing students' projects, and participated in the development of the control systems laboratory, at Comillas University. In 2014, he did a research stay at Aalborg University with Prof. Guerrero.

From 2015 to 2016 he worked at Norvento, where he held a Torres Quevedo Grant to conduct research in the integration of wind-power converters in electrical networks. He was in charge of different research projects and developments.

From 2016 to 2019 he was a post-doctoral researcher at IMDEA Energy. He was under the supervision of Dr. Prodanovic. He held one Iberdrola's grant to research in the integration of renewable energies. In 2018, he did a research stay in SINTEF (Norway), funded by a Jose Castillejo Grant, with Dr. D'Arco and Prof. Suul. He did another short stay at SINTEF funded by the Marinet2 program. He opened a research line on grid-forming converters that he currently supervises. During this period, he participated in dissemination activities like "La Noche de los Investigadores".

In 2019 he became assistant senior researcher at IMDEA Energy. He won a Juan de la Cierva Incorporación Grant. He is in charge of contracts with companies and collaborations with institutions. In 2023, he obtained the R3 certificate and became IEEE senior member. In late 2023, he did a research stay at INESC-TEC (Portugal), funded by the María de Maetzu excellence program, with Prof. Moreira. In 2024, he did another research stay at Universidad Politécnica de Madrid, Spain, with Prof. Martínez. He is the principal investigator of national research projects and supervises PhD and MSc students. All his developments are related to the integration of power converters in electrical grids.