Departamento de Física
Aplicada

Miguel Ángel Rodríguez Valverde

MARV is an experimental physicist. He is dedicated to applied research on interfacial phenomena in the field of materials science. His research profile collects aspects of internationalisation, multidisciplinarity and intersectoriality. He has enjoyed mobility between academia and industry. He considers himself to be a close, firm and committed lecturer. MARV's link with the Department of Applied Physics of the UGR began with a Ramón y Cajal contract (01/06/2006), stabilised as a contract professor with a doctorate (access by competitive examination, 23/03/2011), and became a full professor (27/10/2015) until he was promoted to university professor (02/2021). MARV has four recognised components of Teaching Activity (UGR, 15/01/1999-15/02/2019). He has teaching experience in Engineering Physics Fundamentals (Degree in Telecommunication Technologies Engineering), Physics Applied to Telecommunications (elective, Degree in Telecommunication Technologies Engineering), Mechanics and Waves (compulsory, Degree in Physics) and Analytical Mechanics and Continuous Media (elective, Degree in Physics). He is the coordinator of the Mechanics teaching laboratory (07/2017). He has been awarded two CNEAI research grants in the field of Physics (2002-2008/2009-2014), one grant for knowledge transfer (2008-2017) and five regional grants (2007-2018). MARV is co-responsible for the Surface and Interface Physics Lab. He has participated in the design, assembly, control or tuning of several interfacial measurement instruments such as: emulsion drying kinetics, guided three-phase mobile line, magnetic oscillating drop, bouncing drop, high temperature tensiometer and goniometer, vibrating drop and imbibition in porous membranes, as well as establishing methodologies for the calculation of the roughness factor through topographies and the identification of the most stable contact angle. In terms of improvement, MARV considers that he needs to expand the network of international collaborators, attract funding for infrastructures and pre-doctoral personnel, maintain links with industry, refine its scientific supervision model, teach in English and postgraduate courses and continue to seek new resources and strategies for teaching physics in the current digital context.