



Oscar Camara

obtained his Degree in Telecommunications Engineering at Universitat Politècnica de Catalunya, in Barcelona, in 1999. He completed his Master and PhD in Image Processing in the École Nationale Supérieure des Télécommunications in Paris, in 2000 and 2003, respectively. From 2004, he was a postdoctoral researcher, first at Kings College London and then at University College London, until 2007. In July 2007, he joined the Universitat Pompeu Fabra (UPF) as Ramón y Cajal postdoctoral researcher. In October 2011, he founded a new research group at UPF, Physense, currently composed of 17 members. From 2012 he was associate

professor at UPF, becoming full professor in 2020. He was a visiting scholar at the University of Auckland (New Zealand) during the 2018-19 academic year. PhySense is one of the co-founder groups of the research unit BCN-MedTech, recognized as a consolidated group by the Generalitat de Catalunya and with the TECNIO accreditation (2018). PhySense research is focused on data processing and modelling methods in a wide variety of medical fields, with emphasis on the clinical translation of the developed techniques. This research work has led to 82 publications in journals (57 in Q1), 2 book chapters, the co-edition of 11 LNCS proceedings volumes, 2 patents and 180 contributions (74 abstracts) to national and international conferences in both methodological and clinical field (Google Scholar: number of citations = 5392; h-factor = 35). During his career, he has officially co-supervised 11 PhDs (10 of them with maximum Cum Laude qualification), currently co-supervising 12 PhD (4 finishing in 2023). He has obtained the recognition of research and teaching achievements over three 6-year periods (2001-2018) and two 5-year periods (2008- 2017), respectively, from the AQU Catalunya.

At a national level, he has led a recently finished Retos Investigación project (VIROLAAI, 2019-2022), which is the third consecutive one as PI from the Spanish administration after a previous Retos Investigación (COMPILAAO, 2016-2019) and an initial CICYT Project (SAFEPLAI, 2012-2015). He has recently obtained a Prueba de Concepto project to create a start-up based on the VIROLAAI project outcomes (ATRAPAAALO, 2023-2024). He has also obtained significant funding from technology transfer projects on microwave technologies. This research line led to the creation of the spin-off Miwendo Solutions, co-financed within the Mind the Gap programme of Fundación Botín. He has continuously participated in European projects since 2007. Currently, he is co-PI of a H2020 EU project, SimCardioTest (2021-2024). He also participates in the recently awarded ERA-NET Neuron network for fetal abnormality assessment (2022-2024). Previously, he was co-PI of the European project under the FP7 program (VP2HF, 2013-2017). He has been actively contributing to the development of Open-Source tools in computational imaging and modelling, and he is promoting science for children and woman in engineering. He was the coordinator of the Biomedical Engineering (BME) degree at UPF from 2011 to 2017 and creator of the Computational BME MSc in 2016. On average per year, he coordinates more than 10 BsC/MsC theses (108 thesis supervised so far). He also has some teaching innovation contributions that have been recognized by conferences in this field (CIDUI18) and by UPF social awards (2017). Since December 2021, he is director of the Engineering School at UPF.