

David G. Míguez



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David G. Míguez is a B.Sc. and a Ph.D. in Physics (2001,2006) from the Universidad de Santiago de Compostela. He is currently a *Ramón y Cajal* Investigator at the Department of Condensed Matter Physics of the Universidad Autónoma de Madrid, where he joined in 2011 after several postdoctoral appointments in different research areas, transitioning from Nonlinear Physics (Santiago de Compostela) to nonlinear biochemistry (Brandeis University) to systems biology (Harvard University) and developmental biology (CSIC-Spain). He is currently in charge of the laboratory of Biophysics and Systems Biology, where he combines knowledge and tools from molecular biology and nonlinear physics to study fundamental aspects of biological regulation, from cells to tissues and organisms.

He has published in high impact journals in all research areas he has worked, 4 Physical Review Letters, P.N.A.S, Genes & Development, Cell Reports, as well as one USA patent. He has benefited from funding from a Fulbright fellowship, Marie Curie program, Jae-Doc and Ramón y Cajal. fellowships.

As a junior faculty at the Department of Condensed Matter Physics of the Universidad Autónoma de Madrid, he has established an interdisciplinary experimental research line that has produced 7 research publications as principal investigator in the two years since he joined the Department. He has obtained funding from the Ministerio de Economía y Competitividad (Plan Nacional).

His research interests are mainly focused on network nonlinearities and cooperative phenomena in biological systems, from protein interactions to cellular systems, organ development and stem cell differentiation.