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Marianela Machuca Macías is a Postdoctoral Researcher in Fluid Mechanics at the University of Cádiz. She completed her Industrial Engineering degree with a specialization in Energy Systems at the University of Seville (2011) and earned a Master's degree (2016) and a PhD in Mechanical Sciences (2021) from the University of Brasília (UnB), Brazil. Since 2021, she has been a member of the teaching and research staff at the University of Cádiz, where she worked as a Margarita Salas Postdoctoral Fellow (2022–2024). She has participated in eight research projects at the University of Brasília, funded by public institutions through competitive national calls and by private companies

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