

Breaking The Wall of Unsafe Drinking Water - Ricardo Leonel Marroquin Paiz

Ricardo Leonel Marroquin Paiz is one of the fifteen MSCA fellows who will participate in the Falling Walls Lab competition.

Ricardo is an MSCA Early-Stage Researcher within the inventWater network. He is based at Dundalk Institute of Technology (Ireland) in collaboration with Uppsala Universitet (Sweden) and Virginia Tech (USA). Previously, he obtained an MSc. degree in **Water Science and Engineering** under an Erasmus+ program coordinated between IHE Delft (Netherlands), TU Dresden (Germany), and IST Lisboa (Portugal). Ricardo's primary interests revolve around the **interactions of the water cycle** considering water demand and sectoral water use.

He is currently working on forecasting techniques for **adapting water management to climate change impacts**. This project focuses on high levels of **dissolved organic matter** (DOM) in water - disinfection products of this water being harmful - by running simulations to assess how often mitigation measures would need to be taken. He aims to contribute to society by providing mechanisms to **protect our water supply systems** under present and future climate scenarios.

