



DR MAURICIO SUÁREZ

ABOUT ME

I am a results-driven, adaptable problem solver with a PhD in Physics, dedicated to uncovering optimal solutions through data analysis, computational modeling, and statistical methods, complemented by expertise in machine learning

SKILLS

Leadership & team player
Adaptability
Business Acumen
Critical & Scientific Thinking
Mentoring

TECH SKILLS

Computational Physics
Data science & Blockchain
HPC & Edge-Fog-Cloud developing
IoT & Digital Twins
Interdisciplinary Project Management



CONTACT

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EXPERIENCE

Ventures, 2021-present

As the driving force behind [piensas.xyz](#), I lead R&D&I initiatives for deep-tech solutions that not only address critical industry needs but also generate positive social impact. My work spans from precision agriculture to fintech data management, focusing on secure, scalable platforms that enhance the traceability and commercialization of intellectual assets. The solutions I develop, incorporating IoT, big data, and blockchain, enable businesses to protect intellectual assets and empower communities, fostering economic resilience and new market opportunities.

Scientific Leadership, 2009-2023

I specialize in R&D for scientific applications with a focus on social impact. With over 15 years of experience at [CNEA](#), [UIS](#) and [CIEMAT](#) in numerical modeling, digital twins, big-data analysis, IoT, wireless sensor networks, and cryptography, I have developed methodologies to model physical, medical, and geophysical systems, managing large data sets on HPC-HTC and cloud platforms. As the first head of CNEA's Medical Physics Department, I led interdisciplinary teams in international projects funded by organizations from LATAM, the USA, and Europe. I have taught physics and engineering, authored an Introductory Physics textbook, and supervised 19 theses, earning two teaching awards.

EDUCATION

Doctor in Physics

[Universidad Industrial de Santander, UIS,](#)
[Bucaramanga, 2016-2020](#)

Master in Science

[Universidad Industrial de Santander, UIS,](#)
[Bucaramanga, 2014-2015](#)