



Alberto Campuzano Solórzano

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Gender: Male Date of birth: 30/04/2003 Place of birth: Cantabria, Spain

ABOUT ME

Graduate of the **Double Degree in Physics and Mathematics** from the **University of Cantabria**. I have a strong interest in theoretical physics and mathematical physics, and I have oriented my studies in that direction, completing them with a specialization in **fundamental physics** and **pure mathematics**. My undergraduate theses address two prominent topics from both fields. In mathematics, I apply methods from **algebraic topology** to explore the interplay with group theory. In physics, I study the concept of **universality** in models of **self-organized criticality**, investigating the dynamics of stochastic models through **computational simulations**.

Additionally, I complement my theoretical background with practical experience in areas such as **Data Science** and **Artificial Intelligence** in various companies. These rapidly growing fields deserve particular attention and strongly capture my interest.

EDUCATION AND TRAINING

[2021 – Current]

Double Degree in Physics and Mathematics

Universidad de Cantabria

City: Cantabria | Country: Spain | Level in EQF: EQF level 7

Specialization

- **Theoretical Physics:** General Relativity (Honors), Quantum Mechanics, Particle Physics (Pass with Distinction)
- **Pure Mathematics:** Algebraic Topology and Differential Manifolds
- **Professional Experience:** Data Science & Machine Learning Intern (Honors)

WORK EXPERIENCE

INGECID

City: Santander | Country: Spain

[06/04/2026 – 05/07/2026]

Generative Design Intern

During my internship in the Generative Design Department, I carried out the following tasks:

- Research, selection, and evaluation of AI algorithms and models applicable to the automatic generation of engineering solutions (structural, geometrical, optimization-related, etc.).
- Development and prototyping of generative design tools that, based on design constraints and parameters, propose optimal or near-optimal engineering solutions.
- Preparation, cleaning, and analysis of technical datasets required for model training and validation.
- Integration of developed modules into existing company workflows and platforms.
- Technical documentation of developments, including methodology, results, and conclusions.
- Participation in team meetings and technical review sessions of ongoing projects.

Evenbytes

City: Santander | Country: Spain

[16/06/2025 – 29/08/2025] **Data Consultant Intern**

Responsibilities:

- Development of predictive time series models using statistical and machine learning techniques.
- Modeling and formalization of complex processes for analysis and optimization.
- Optimization of data pipelines using mathematical algorithms and analytical tools.
- Automation of data extraction and updating using Python and Google Cloud Platform (Cloud Functions, Cloud Scheduler, Terraform).
- Implementation of storage and processing solutions for large-scale data.
- Design and support in the development of internal web applications using Angular.

[2020 – 2025] **Private Tutor**

- Monitoring students' academic progress.
- Guidance in achieving personal academic goals.
- Preparation for exams such as the Spanish university entrance exam (EBAU) or equivalent.

Football Goalkeeper Coach

- Training and development of goalkeepers in intensive football camps.
- Promotion of core sports values and their application to everyday life.
- Education in emotional management within sports and its transfer to professional and personal contexts.

Carrefour

[01/06/2023 – 01/09/2023] **Store Assistant**

- Customer service and advisory.
- Product restocking and in-store presentation.
- Order preparation and verification.

CERTIFICATIONS

[IBM SkillsBuild, 03/04/2026] **Artificial Intelligence Fundamentals**

AI Concepts & Foundations Specialist

Credentialed professional with a comprehensive understanding of **Artificial Intelligence**, encompassing **Machine Learning**, **Deep Learning**, and neural networks. Hands-on conceptual experience running AI models via **IBM Watson Studio**. Skilled in identifying applications for NLP and Computer Vision, with a strong focus on **AI Ethics** and a strategic awareness of industry trends and the evolving job market within the AI domain.

Link: https://www.credly.com/badges/94de0851-20dc-4688-a163-a76c09ff0ef3/public_url

CONFERENCES AND SEMINARS

[08/2025] **Workshop on Cryptography Applied to Security and Privacy in Data Science**

Workshop focused on current challenges in cryptography related to security and privacy in large-scale data processing and publication. Topics included:

- Secure delegation of data and computation to the cloud
- Advances in modern and post-quantum cryptography
- Security and privacy in machine learning
- Encryption techniques

HONOURS AND AWARDS

- [2021] **“El Pozón de la Dolores” Competition Awarding institution:** Camargo City Council
Second place in the XXI edition of the “El Pozón de la Dolores” competition in the poetry category with the work *“Preso de las ganas de libertad”*.
- [2020] **Physic Olimpiad Awarding institution:** University of Cantabria
Participation and 6th place in the annual Physics Olympiad organized by the University of Cantabria.
- [2018] **Science Fair Awarding institution:** University of Cantabria
First place in the Science Fair with a project based on a device capable of automatically turning pages, aimed at facilitating access to textbooks for people with disabilities, with potential broader applications.
- [2018] **Cantabrobots Awarding institution:** Regional Ministry of Education, Vocational Training and Tourism
Second place in the design of a robot capable of performing multiple tasks such as line following, light and color detection, and temperature sensing.

SKILLS

Python | Matlab | Ubuntu | Git | Lateral Thinking | Proactivity | Autonomy | Responsibility

LANGUAGE SKILLS

Mother tongue(s): Spanish

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DRIVING LICENCE

Cars: B 2021