

# Ignacio Ordovás Pascual

## Data Scientist

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*I have many years of scientific experience and I've recently started to work in a professional consulting environment where I'm involved in cross functional clients projects as well as several internal projects involving ML pipelines. My experience helps me apply skills like teamwork, meeting deadlines, and communicating results and complex ideas effectively to a non-technical audience. I am a curious and fast learner of the latest techniques in data science.*

## EXPERIENCE

### COGNIZANT TECHNOLOGY SOLUTIONS: Associate Data Scientist (Apr 2021 - Present)

Participated in projects involving different topics as Life Sciences, Insurance, Food quality control and Oil & Gas companies. Some examples of my work are listed below:

Life Sciences client project:

- Updated AI model to help study designers to **create less burdensome clinical trials**.
- **Analyzed the effects of 40 variables** in patient burden using survey data, by applying statistical techniques like **Causal Inference/Propensity Score** and **Bootstrapping**.
- **Built a new DevOps solution** for a project, by designing a CI/CD in GitHub that connects input data from S3 buckets and automatically deploys the containerized updated model.
- **Ensured stability and maintainability of the AI algorithms** deployed in production using Unit tests.

Other client and internal projects experience:

- **Created 5 PoC demos for clients** in an Azure Web App using Docker/Streamlit or Flask.
- **Automatic detection of defects** in using autoencoders, clustering and other approaches, obtaining a **90% of recall**.
- Compiled a proposal of solutions using ML methods (e.g. Random Forest) and data analytics, **identifying the 10 most relevant actions** to optimize the outcome.
- Collaborated with Data Engineers to **create API endpoints** to productionize solutions.
- Developed an **retail self-checkout object detection solution using Azure Percept**, whose instructions detailed in a Microsoft IoT blog post has reached **more than 5000 views** ([click here](#)).
- Developed **MySQL DB connections in python and used Jinja templates** to create reports and configuration files.
- **Mentoring graduates** to teach Data Science and Computer Vision concepts and applications.

### INSTITUTE OF PHYSICS OF CANTABRIA (CSIC-UC): Researcher (Jan 2014 - Dec 2019)

Studied the relation between the optical extinction, X-ray absorption and classification of Active Galactic Nuclei.

- Analyzed galaxy spectral datasets to conduct a **PhD research project**.
- Created Python code for **automatic model selection and feature detection**.
- **Planned numerical simulations** to measure physical parameters and its  $1\sigma$  confidence interval.
- **Communication of findings** in 4 peer-reviewed papers, 7 oral presentations and 3 scientific posters.

## TECHNICAL SKILLS

Advanced Python Programming  
CI/CD Pipelines

Statistical Analysis  
Natural Language Processing

Machine Learning  
Cloud (Azure, AWS)

Git  
Computer Vision

## SOFT SKILLS

Public speaking  
Written communication

Teamwork  
Problem solving

Storytelling  
Mentoring

Versatility  
Critical thinking

## EDUCATION

**PhD In Science and Technology (Cum Laude distinction):** University of Cantabria

**Master in Astrophysics & Bachelor Degree in Physics:** University of La Laguna

## LANGUAGES

**English B2** (University of Cambridge), **Spanish** (Native)

## OTHER HIGHLIGHTS

**Ironhack Data Analytics Bootcamp:** Private education company course to learn Data Science applied to real use cases.

**Azure Percept IoT device training:** Bootcamp organized by Microsoft.

**Certification:** Azure Fundamentals (AZ-900).

**MOOC courses in Udemy and Coursera:** CI/CD, CV, NLP, Keras/Tensorflow, Azure, AWS, Machine Learning.

**Narrate the Science. Scenic and Oral Narration Techniques for Scientific Communication,** UC summer course.