

# Marco Pérez Hernández

INTELLIGENT SYSTEMS · DATA SCIENCE

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## Education

### PhD in Computer Science

UNIVERSITY OF LEICESTER

- Thesis: Realising Relative Autonomy and Adaptation in Smart Objects Systems

Leicester, U.K.

Sep. 2013 - Mar. 2018

### Master of Business Administration

UNIVERSITY OF LOS ANDES

### Systems Engineering - BEng.(Hons)

DISTRICT UNIVERSITY OF BOGOTÁ

Bogotá, Colombia

Aug. 2004 - Mar. 2006

Bogotá, Colombia

Jan. 1997 - Dec. 2002

## Experience · Research/Academy

### Senior Lecturer

UNIVERSITY OF THE WEST OF ENGLAND BRISTOL (UWE BRISTOL)

- Researcher in multiple projects playing different roles (See Projects section)
- Leader of the “AI Opportunities in Manufacturing” sessions as part of the Made Smarter programme.
- Leader of “Autonomous Agents and Multiagent System” & “Internet of Things” modules and teaching support in other AI, Data Science and Software Engineering modules.
- Supervision of UG, MSc and PGr projects and internships.

Bristol, UK

Nov. 2021 - Present

### Research Associate

UNIVERSITY OF CAMBRIDGE

- Distributed Information and Automation Laboratory Conducting research on:
  - Agent-based control, multi agent systems, complex networks and distributed artificial intelligence for telecom infrastructures.
  - Agent-based modelling for logistic problems within the food supply chain.

Cambridge, UK

Sep. 2018 - Nov. 2021

### Teaching Fellow

UNIVERSITY OF LEICESTER

- Responsible of the modules: Distributed Systems and Applications (UG and MSc) and Human Computer Interaction (UG). Teaching support in: Software Engineering (UG) and Advanced Web Technologies (MSc). Supervisor of several UG and MSc dissertation projects.

Leicester, UK

Oct. 2017 - Aug. 2018

### Graduate Teaching Assistant (While completing my PhD)

UNIVERSITY OF LEICESTER

- Teaching assistant of: Software Engineering (UG), Advanced Web Technologies (MSc), Distributed Systems (UG and MSc), Business Information Systems (MSc) and Statistics (UG).

Leicester, UK

Oct. 2013 - Sept. 2017

### Research Software Engineer

DISTRICT UNIVERSITY OF BOGOTÁ

- Project: SISAAB - Development of IS to support Food supplying and marketing in Bogotá city Conducting research on: Software components for product traceability

Bogotá, Colombia

Jul. 2006 - Mar. 2008

### Associate Teaching Fellow

INCCA UNIVERSITY OF COLOMBIA

- Responsible of Software Engineering (UG) and IT Management (UG) modules.

Bogotá, Colombia

Aug. 2007 - Feb. 2008

## Experience · Industry

### Sr Technology Consultant

EVERIS SPAIN S.L. - NTT DATA

- I led the Global IT Processes definition for Telefonica/O2 and supported the deployment/change management in several OBs spanning Spain, Czech Republic and Argentina, among others.
- I was responsible of the monitoring and tracking of one strategic IT programme for Enagas S.A.
- I led the project for certification of everis under ISO/IEC 2000
- Team leader in the development of the back office solution for Globalia S.A.

Madrid, Spain

Apr. 2008 - Aug. 2013

### Project Leader

INDUDATA LTDA.

- Definition of User Acceptance Tests for a tailored financial solution for securitizing mortgage loans.

Bogotá, Colombia

Jan. 2006 - Jun. 2006

## Freelance Analyst

TRANSPARENCY INTERNATIONAL CHAPTER COLOMBIA

- Result & Data Analysis for the “Departmental Transparency Index 2004-2005”

## Software Engineer

INDUDATA LTDA.

- Multiple offshore projects for clients such as ConocoPhilips, CharmingShoppes, GECapital & Clover Park School District

Bogotá, Colombia

Dec. 2005 - Jan. 2006

Bogotá, Colombia

Jan. 2002 - Aug. 2004

## Selected Projects

### GLOW-Energy nested bio system flows: from the home to the hub

U. OF STRATHCLYDE, **U. OF THE WEST OF ENGLAND**, U. OF BATH, U. OF BRISTOL

EPSRC Digital Economy

**Co-Investigator** (2023 - Present)

Researcher (2022-2023)

### Evaluating the performance of LLM (Large Language Model) Agents in coding tasks

U. OF THE WEST OF ENGLAND BRISTOL

UWE CATE Funding Scheme

**Principal Investigator** (2024)

### Group Configurations in Artificial Multiagent Systems for the Management of Digital Infrastructures

U. OF THE WEST OF ENGLAND BRISTOL

Vice-Chancellor's EC Research

Award 2022-23

**Principal Investigator** (2022 - 2023)

### Next Generation Digital Infrastructures NG-CDI

BT, U. OF LANCASTER, **U. OF CAMBRIDGE**, U. OF SURREY, U. OF BRISTOL

EPSRC Prosperity Partnership

**Researcher** (2022 - 2023)

Researcher Associate (2018 - 2022)

### Definition & Deployment of Global IT Processes (To-Be)

TELEFONICA/O2 GROUP, **EVERIS SPAIN S.L.** - NTT DATA

Telefonica Global Technology (TGT)

**Senior Consultant** (2010-2013)

## Publications

Dynamic list available [HERE](#).

## Certifications

**Higher Education Academy** Fellow - 2023

**SCRUM Alliance** Certified SCRUM Master - 2012

**ISACA** Certified Information Systems Auditor (CISA) - 2011

**ISO** Certified ISO 20000 Consultant - 2010

**ITSM - EXIN** ITIL V3 (ITIL V2 + Bridge) Service Management Foundation - 2009

**ISACA** COBIT Foundation - 2008