

# Marco Pérez Hernández

SENIOR LECTURER IN COMPUTER SCIENCE

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## Education

### PhD in Computer Science

UNIVERSITY OF LEICESTER

*Leicester, U.K.*

*Sep. 2013 - Mar. 2018*

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

### Master of Business Administration

UNIVERSITY OF LOS ANDES

*Bogotá, Colombia*

*Aug. 2004 - Mar. 2006*

### Systems Engineering - BEng.(Hons)

DISTRICT UNIVERSITY OF BOGOTÁ

*Bogotá, Colombia*

*Jan. 1997 - Dec. 2002*

## Experience - Academy

### Senior Lecturer in Computer Science

UNIVERSITY OF THE WEST OF ENGLAND (UWE)

*Bristol, UK*

*Nov. 2021 - Present*

- Researcher in multiple UWE and EPSRC funded projects playing different roles (See *Research Projects* section)
- Module Leader of “Autonomous Agents and Multiagent Systems”.
- Supervision of UG and MSc. students, support to several modules of the Computer Science cluster.

### Research Associate

UNIVERSITY OF CAMBRIDGE

*Cambridge, UK*

*Sep. 2018 - Nov. 2021*

- 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.

### Teaching Fellow

UNIVERSITY OF LEICESTER

*Leicester, UK*

*Oct. 2017 - Aug. 2018*

- 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.

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

UNIVERSITY OF LEICESTER

*Leicester, UK*

*Oct. 2013 - Sept. 2017*

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

### Research Software Engineer

DISTRICT UNIVERSITY OF BOGOTÁ

*Bogotá, Colombia*

*Jul. 2006 - Mar. 2008*

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

### Associate Teaching Fellow

INCCA UNIVERSITY OF COLOMBIA

*Bogotá, Colombia*

*Aug. 2007 - Feb. 2008*

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

## Experience - Industry

### Sr Technology Consultant

EVERIS SPAIN S.L. - NTT DATA

*Madrid, Spain*

*Apr. 2008 - Aug. 2013*

- Multiple Software Engineering & IT Governance projects at: Telefonica/O2, Air Europa (Globalia) & Enagas S.A.

### Project Leader

INDUDATA LTDA.

*Bogotá, Colombia*

*Jan. 2006 - Jun. 2006*

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

### Software Engineer

INDUDATA LTDA.

*Bogotá, Colombia*

*Jan. 2002 - Aug. 2004*

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

## Research Projects

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### 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)*

### Feasibility Of AI Techniques For Next Generation UAVs

UNIVERSITY OF THE WEST OF ENGLAND

*UWE RBI Seed Fund 2023-24*

*Co-Investigator (2023-Present)*

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

UNIVERSITY OF THE WEST OF ENGLAND

*Vice Cancellor's Early Career*

*Researcher 2022-2023*

*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)*

*Research Associate (2018-2022)*

### IoT Systems to support operation of digital infrastructure

U. OF CAMBRIDGE & OTHERS.

*Research England Pitch-in*

*Research Associate (2020)*

### Digital Manufacturing In A Shoestring

U. OF CAMBRIDGE, U. OF NOTTINGHAM

*EPSRC Manufacturing Prioritisation*

*Research Associate (2018-2019)*

### em4so - Embedded Middleware for Smart Objects

UNIVERSITY OF LEICESTER

*UoL Computer Science GTA Fund*

*PhD Researcher (2013-2018)*

## Honours & Awards

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### Vice Cancellor's Early Career Researcher Development Award 2022-23,

2022 £15K - Group Configurations in Artificial Multiagent Systems for the Management of Digital Infrastructures

*Bristol, UK*

### Best presentation: "Software Architectures for the Autonomous IoT",

2016 Current Postgraduate Research in Computing, BCS Leicester Branch

*Leicester, UK*

### 2002 Best Graduate of the Engineering School,

2002 District University of Bogotá

*Bogotá, Colombia*

### Merit Distinction for BEng Thesis,

2002 District University of Bogotá

*Bogotá, Colombia*

## Professional affiliations

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### Fellow

FHEA

*Higher Education Academy*

*2016 - Present*

### Member

COMPUTER SOCIETY, INDUSTRIAL ELECTRONICS SOCIETY

*IEEE*

*2010 - Present*

### Member

SPECIALIST GROUP ON ARTIFICIAL INTELLIGENCE

*BCS - EurAi*

*2023 - Present*