Marco **Pérez Hernández**

COMPUTER SCIENTIST · SYSTEMS ENGINEER

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Education

PhD in Computer Science   *Leicester, U.K.*

UNIVERSITY OF LEICESTER   *Sep. 2013 - Mar. 2018*

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

Master of Business Administration   *Bogotá, Colombia*

UNIVERSITY OF LOS ANDES   *Aug. 2004 - Mar. 2006*

Systems Engineering - BEng.(Hons)   *Bogotá, Colombia*

DISTRICT UNIVERSITY OF BOGOTÁ   *Jan. 1997 - Dec. 2002*

Teaching Experience

Undergraduate Internship Supervisor   *Cambridge, UK*

UNIVERSITY OF CAMBRIDGE   *July. 2020 - Sept. 2020*

- Supervisor of the project: IoT Systems to support operation of digital infrastructure. Responsibilities included teaching several fundamental concepts of software engineering including agile methodologies, DevOps, CI, system design, programming, testing, and version control.

Teaching Fellow   *Leicester, UK*

UNIVERSITY OF LEICESTER   *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   *Leicester, UK*

UNIVERSITY OF LEICESTER   *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). Part of my job included: summative assessment, lab assistance, module material elaboration, workshop leadership and lecturing.

Part-time Teaching Fellow   *Bogotá, Colombia*

INCCA UNIVERSITY OF COLOMBIA   *Aug. 2007 - Feb. 2008*

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

Part-time Teaching Fellow   *Bogotá, Colombia*

EL BOSQUE UNIVERSITY   *Oct. 2006 - Jul. 2007*

- Programme review and quality assurance for the school of engineering

Research Experience

Research Associate   *Cambridge, UK*

UNIVERSITY OF CAMBRIDGE   *Sep. 2018 - Present*

- 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.

PhD Researcher   *Leicester, UK*

UNIVERSITY OF LEICESTER   *Sep. 2013 - Sep. 2017*

- Project: em4so - Embedded Middleware for Smart Objects
  Conducting research on: Using services together with organisational and agents theory in the development of a middleware architecture supporting socio-cyber-physical autonomous systems.

Research Software Engineer   *Bogotá, Colombia*

DISTRICT UNIVERSITY OF BOGOTÁ   *Jul. 2006 - Mar. 2008*

- Project: SISAAB - Development of IS to support Food supplying and marketing in Bogotá city
  Conducting research on: Software components for product traceability (EPC, RFID and barcodes among others)

Industry Experience

Sr Technology Consultant *Madrid, Spain*
everis Spain S.L. - NTT Data *Apr. 2008 - Aug. 2013*
- Multiple Software Engineering & IT Governance projects at: Telefonica/O2, Air Europa (Globalia) & Enagas S.A.

Project Leader *Bogotá, Colombia*
Indudata Ltda. *Jan. 2006 - Jun. 2006*
- Definition of User Acceptance Tests for a tailored financial solution for securitizing mortgage loans.

Freelance Analyst *Bogotá, Colombia*
Transparency International chapter Colombia *Dec. 2005 - Jan. 2006*
- Result & Data Analysis for the "Departmental Transparency Index 2004-2005"

Software Engineer *Bogotá, Colombia*
Indudata Ltda. *Jan. 2002 - Aug. 2004*
- Multiple offshore projects for clients such as ConocoPhilips, Charming Shoppes, GECapital & Clover Park School District

Honours & Awards

2016 **Best presentation:"Software Architectures for the Autonomous IoT"**,
Current Postgraduate Research in Computing, BCS Leicester Branch *Leicester, UK*

2002 **2002 Best Graduate of the Engineering School**,
District University of Bogotá *Bogotá, Colombia*

2002 **Merit Distinction for BEng Thesis**,
District University of Bogotá *Bogotá, Colombia*

Professional affiliations

Data Champion *University of Cambridge*
Department of Engineering *March. 2019 - Present*

Associate Fellow *Higher Education Academy*
AFHEA *2016 - Present*

Member *IEEE*
Computer Society, Industrial Electronics Society *2010 - Present*

Member *ACM*
Association for Computing Machinery *2021 - Present*

Knowledge & Skills

OO & Functional programming Scala, Java, Python, Groovy, JavaScript
Scientific Computing Julia, Python, R
Platforms & frameworks Docker, akka, Spring.io, Node.js, Mininet, Ryu NOS
Languages Spanish (native) & English (fluent)