Luis Badesa

e-mail: luis.badesa@gmail.com
Personal website: https://badber.github.io/

I am a final-year PhD student with extensive international and research experience, working on stochastic economic optimisation for electricity networks.

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EDUCATION

PhD in Electrical Engineering, Imperial College London (2016 – present)

Developing methodologies for optimal scheduling of electricity grids with a high share of renewable generation.

- Published 7 research papers (see my personal website and my ResearchGate profile).
- Recipient of a full scholarship from the Engineering Research Council UK.

MSc in Electrical Engineering, University of Maine (USA) (2014 - 2016)

- Ranked 1st among students in Electrical & Computer Engineering.
- Recipient of an Iberdrola Scholarship for Postgraduate Studies in Energy & Environment.

BSc in Industrial Engineering, University of Zaragoza (Spain) (2010 - 2014)

- Recipient of a Scholarship sponsored by BSH Home Appliances Corporation.

EXPERIENCE

Co-supervisor of four Master's theses, Imperial College London (2017 – present)

Graduate Teaching Assistant, Imperial College London (2017 – 2019)

- Taught core modules in mathematics and computing, in the MEng Electrical Engineering.

Instructor for "Intro to Robotics", Johns Hopkins CTY (USA) (Summer 2016)

- Taught at CTY's summer camp for gifted middle school students in Los Angeles.

Researcher in Smart Grid, University of Maine (USA) (2014 - 2016)

- Conducted studies on power system stability, in collaboration with Central Maine Power.

Assistant Researcher in Digital Electronics, University of Zaragoza (2013-2014)

- Designed an FPGA-based position sensor for pans on induction cooktops, in collaboration with the engineers at BSH Home Appliances Group.

Intern in Control Engineering, Pyrsa, Monreal del Campo (Spain) (Summer 2013)

VOLUNTEERING

Secretary and co-founder at IEEE Student Branch, Imperial College (2018 – present)

Chair of Events at IEEE Power & Energy Society, University of Maine (2015 - 2016)

Mentor for undergraduate students at Eta Kappa Nu, University of Maine (2015 - 2016)

Research Project Mentor at Upward Bound, University of Maine (Summer 2015)

- Mentored a high school student on a month-long project titled "Optimal Design of an Average-sized One-bedroom Apartment for Better Energy Conservation".

Mentor for first-year and international students at University of Zaragoza (2012 – 2014)

SKILLS

Languages: English (bilingual proficiency), Spanish (native), French (high proficiency).

Programming: Matlab, C++, C, VHDL, Pascal, LaTeX. Strong mathematical and computing skills, including optimization and Machine Learning (see my GitHub).