

# Luis Badesa

e-mail: [luis.badesa@gmail.com](mailto: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 5 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](#)).