



Stefano Moret

About me

PhD in Energy with a solid interdisciplinary background, my main area of expertise is **modeling and optimization of energy and Engineering systems**. I am currently a Swiss National Science Foundation Research Fellow at Imperial College London and Founder & CTO of j4energy. My goal is to contribute to the energy transition, through research, teaching and consulting.

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See my full CV 📄

Education

- 2013 – 2017 **École Polytechnique Fédérale de Lausanne (EPFL)** Switzerland
PhD Energy. Thesis title: *Strategic energy planning under uncertainty* 📺 📄
Supervisors: Prof. F. Maréchal, Prof. M. Bierlaire
- 2009 – 2012 **University of Padova** Italy
MSc Mechanical Engineering, *110/110 with honors*. GPA: 29.5/30
- 2011 **University of California, Berkeley** USA
Academic exchange for MSc Thesis, BEST lab
- 2010 **NTNU** Norway
Academic exchange, Erasmus program
- 2006 – 2009 **University of Padova** Italy
BSc Industrial Engineering, *110/110 with honors*. GPA: 29.3/30

Languages

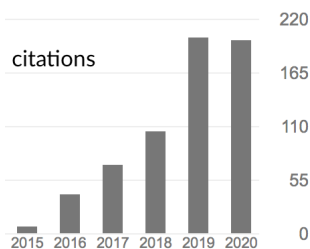
- Italian ★★★★★
- English ★★★★★
- French ★★★★★
- Spanish ★★★★★
- Chinese ★★★★★
- German ★★★★★

Expertise

- Energy systems
- Modeling & optimization
- Uncertainty (watch 📺)
- Teaching (watch 📺)
- Research

Publications

List on Google Scholar 📖



Experience

- 2019 – now **Imperial College London** UK
Swiss National Science Foundation (SNSF) Visiting Research Fellow
 - Research: decision-making under uncertainty (W. Wiesemann group)
 - IDLES project: modeling and optimization for the future UK energy system
- 2018 – now **j4energy** Italy
CTO & Founder. Advanced optimization models for large-scale energy systems
- 2017 – 2019 **École Polytechnique Fédérale de Lausanne (EPFL)** Switzerland
Postdoc & lecturer, Industrial Process and Energy Systems Engineering (IPESE)
 - Research: whole-energy system modeling, optimization under uncertainty
 - Lecturer: *Energy conversion and renewable energy* Master course 📺
- 2013 – 2017 **École Polytechnique Fédérale de Lausanne (EPFL)** Switzerland
Research & teaching assistant, IPESE group
 - Research: optimization under uncertainty; energy strategy; geothermal energy
 - Teaching: lectures and exercises (MSc, PhD level); 20+ supervised students
- 2013 **University of Padova - Industrial Engineering Department** Italy
Temporary research fellow, 6-month research funded by ENEL Foundation
- 2012 **California Lighting Technology Center - University of California, Davis** USA
Junior Specialist, Building energy simulation and experimental tests
- 2009 – 2011 **JEst - Junior Enterprise, University of Padova** Italy
Associate, President, Student association, consultancy and event organization
 - Start Cup Giovani, project manager: university course and start-up competition (250+ students). Project funded by the Italian Prime Minister's Office (240 k€)
- 2006 – 2009 **Various internships** Italy, Germany, China
Energy storage (3m), Aluminium foundry (1m), Compressor manufacturer (6m)

Projects

- energyscope model 📺
- j4energy 📺
- askPinocchio - fake news 📺

Tools

- Matlab
- LaTeX
- AMPL
- git
- python
- VBA
- Lua
- web dev
- ML
- MacOS
- Linux
- LCA