



# Manon Fouquet, PhD

FULLSTACK DEVELOPPER,  
PROJECT MANAGER

06 41 69 70 83

ms.manonfouquet@gmail.com

LinkedIn

Projetct: network simulator

## Summary

I have worked as a developer and project manager for 6 years, on complex projects related to numerical optimization. I have developed or supervised the development of many large scale industrial codes, such as market clearing algorithms for the energy sector in Europe and optimization models of energy systems. I am enthusiastic and well organized in my work. I love to constantly learn new techniques and to apply them. I am now seeking a data scientist or fullstack developer job, ideally on topics with a positive impact on society (e.g. healthcare, sustainable energy or building)

## Skills

Modelling, optimization, algorithms



Data Science



Energy systems



Frontend



Python



Project management



Java



GIT



## Languages

French

native speaker

English

bilingual

Suédois

fluent

Spanish

intermediate

German

intermediate

## Hobbies

Climbing, rowing, karate

Wood work, plumbing, eco-building techniques

Bike touring

## Work experience

### Project manager, developer - Artelys, Paris

May 2016 - June 2022

Developement of numerical optimization code and heuristics, applied to energy systems, energy markets and logistics.

Web experience: electrical network simulation tool (see link above)

Technos: Java/ Python/ Mosel/ AMPL/ Knitro/ Docker/ git / SQL/ Javascript/ React/ Node.JS/ Webpack

### PhD - EDF/CentraleSupélec

March 2013 - March 2016

Model Predictive Control and optimization of energy plants, based on 1st principle models. MATLAB, Modelica, JModelica

### Internship - Mastère OSE - EDF R&D

March - September 2012

Modelica library for quick sizing energy plants

### Internship- thermal engineering - TitanX, Sweden

February - August 2011

Migration of a heat exchanger computation software, and integration of new numerical methods for simulation and parameter fitting

## Education

### DataScientist, Udacity

August 2022

### Front End Web Developer, Udacity

June - October 2020

### Machine learning (Andrew Ng), Coursera

June - October 2016

### Post master specialization in energy system optimization, Mines Paristech

September 2011 - September 2012

### Master degree of engineering, ESSTIN

September 2006 - September 2011

Energy/Fluid mechanics/ Computer science and automatic control. One year as exchange student in Sweden

### Baccalauréat Scientifique - Highest honors

June 2006