

# Alexandre MATHIEU

## Energy Quantitative Analyst

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✉ <https://alexandrehugomathieu.github.io/alexandremathieu.github.io>

## EXPERIENCES

### Postdoc

#### DTU

December 2025 – Now

📍 Roskilde (Risø), DENMARK

Wind and solar generation forecasting

### PhD student

#### Heliocity/CSTB/LOCIE

March 2022 – March 2025

📍 Grenoble, FRANCE

"Methodology development to guarantee building photovoltaic systems' performance including failure modelling."

### R & D solar performance engineer

#### Heliocity

January 2022 – March 2022

📍 Grenoble, FRANCE

### Quantitative Analyst

#### Ørsted, (Short Term Trading Optimisation)

November 2018 – October 2021

📍 Copenhagen, DENMARK

- Day-ahead probabilistic/deterministic forecasts of energy volumes, prices as well as energy-trading strategies via model feature investigations, machine learning methods and algorithms.

### Master Thesis Student

#### Novo Nordisk (Business support)

January 2018 – July 2018

📍 Copenhagen, DENMARK

In collaboration with DTU and Novo Nordisk, . Grade: 12/12

"Establishment of a tool to prioritize energy-efficiency projects in industry".

## EDUCATION

### Denmark Technical University (DTU)

#### Master Sustainable Energy

##### Energy-saving study line

Double diploma in collaboration with CentraleSupélec

September 2016 – July 2018

📍 Copenhagen, DENMARK

### CentraleSupélec

#### Engineering school in information sciences, energy and systems

September 2014 – July 2016

📍 Metz, FRANCE

## LIST OF PUBLICATIONS

- *Solar RRL*, 2024, "Impact of Climate Change on Photovoltaic Performance: Case Study in French Cities"  
**Mathieu A.**, Thebault M., Kraiem S., Fraisse G., Thebault S., Boddaert S., Gaillard L.
- *EPJ Photovoltaics*, 2024  
"Photovoltaic Failure Diagnosis Using Imaging Techniques and Electrical Characterization"  
Hassan Daher D., **Mathieu A.**, Abdalla A., Mouhoumed Dek, Logerais P.-O., Gaillard L., Ménézo C.
- "Uncertainty Estimation of the Hourly Plane-Of-Array Irradiance from Satellite Data: A European Case Study"  
**Mathieu A.**, Thebault M., Fraisse G., Thebault S., Boddaert S., Gaillard L.

## CONFERENCES

- *EUPVPMC 2024*, Copenhagen, DENMARK  
"Uncertainty Estimation of the Hourly Plane-Of-Array Irradiance from Satellite Data: A European Case Study"
- *40th EUPVSEC 2023*, Lisbon, PORTUGAL  
"Impact of Climate Change on Photovoltaic Performance: Case Study in French Cities"
- *Eurosun 2022*, Kassel, GERMANY  
"Failure Risk Analysis of Photovoltaic Systems Based on Literature Review"

## WORKSHOP

A workshop was built to introduce some tools to visualize and quantify underperformances on PV installation.  
*DATASUN 2022*, Grand-Bornand, FRANCE  
"PV Fault Detection Workshop", Link

## LANGUAGES

English

French

Italian

