



## Contact

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## Address

Heinrichstrasse 68/3  
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## Skills

Leadership, teamwork,  
quick learner,  
autonomous

## Programming

C++, Python, Pandas,  
PHP/HTML/CSS/SQL  
Linux, Git, VSCode

## Research impact

7 publications  
h-index: 5 (G.Scholar)

## Languages

French (native)  
English (C2)  
Swedish (B2)  
Spanish (B2)  
German (B1)

## Interests

Green IT  
Sustainability  
Open Source  
Reproducibility

## Hobbies

Climbing, hiking,  
caving, motorbiking  
and choir singing

# Maël Madon

## Software Engineer with PhD

### About Me

Software engineer in C++ and Python, looking for a position with meaningful or sustainable impact.

## Professional Experience

### Apr21 - Jun24, PhD thesis

Université de Toulouse (Toulouse, FRANCE), IRIT laboratory

Studying “digital sufficiency behaviors” to decrease data centers’ environmental impacts:

- Developing the HPC user simulator Batmen in C++ (10k+ lines).
- Launching simulation campaigns in parallel on an HPC platform.
- Analyzing the experimental results with Python and Pandas.

Other tasks:

- Leading several international collaborations, including a 3-month research visit at the [Vrije Universiteit Amsterdam](#).
- Project lead within the state-funded research project Datazero2.
- Teaching and supervision of Bachelor and Master students.

### Sep20 - Mar21, Master’s thesis

Ericsson (Stockholm, SWEDEN)

Developing an Excel tool to streamline the carbon footprint assessment of telecommunication base stations, successfully adopted by the company.

### Apr - Jul19, Research Intern

Université de Toulouse (Toulouse, FRANCE), IRIT laboratory

Python simulation and mathematical optimization (MILP) of the electric and thermal components of a data center to study cooling load-shifting.

### Jun - Aug18, Project Manager

ENEDIS - French electricity distributor (Aurillac, FRANCE)

Supervizing the setting up of an electricity consumption monitoring platform (HTML, AngularJS) for local governments.

## Education

### 2024, PhD in Computer Science

Université de Toulouse (Toulouse, FRANCE)

### 2021, M.Eng. in Computer Science

KTH Royal Institute of Technology (Stockholm, SWEDEN)

Software Engineering (Git, CI/CD), DevOps (Docker, GitHub runner)

### 2021, École Polytechnique’s diploma (B.Eng.&M.Eng.)

École Polytechnique (Paris, FRANCE)

France’s leading school of Science and Engineering

Programming (Java), Algorithmic, Web (PHP, HTML/CSS, MySQL)

## Extracurricular activities

### Jul24 - Aug25, Gap Year

40-day alpine crossing on foot

Backpacking and volunteering in South America

### 2017 - now, member of several choirs and a caving club