



# MANON CORNET

PhD. Student in Electrical Engineering,  
Focused on multi-agent approaches to  
electric distribution network planning.

## PERSONAL

I'm a curious and open-minded person, always eager to dive deep into understanding new things. My passion for learning drives me to explore every detail. While I may be a discrete individual, I'm genuinely energized by collaboration and flourish in team environments. The opportunity to collaborate with others not only inspires me but also makes the work incredibly fulfilling and fun!

## CONTACT

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-  25 September 2001
-  <https://github.com/ManCornet>

## PRO. SKILLS

- **FRENCH** (Native)
- **ENGLISH** (Full professional proficiency)
- **DUTCH** (Elementary proficiency)
- **OPTIMIZATION** ([JuMP](#), [Pyomo](#))
- **DEEP LEARNING** ([PyTorch](#), [Wandb](#))
- **MACHINE LEARNING** ([scikit-learn](#))
- **PARALLEL COMPUTING** (OpenMP, MPI)
- **PYTHON, JULIA**
- **MATLAB, C**
- **JAVA, SQL, PHP**
- **ASSEMBLY** (PIC programming)
- **WORD, POWERPOINT, OFFICE**

## INTERESTS



TRAVEL



FOOD LOVER



RUNNING



GUITAR



GYM

## ABOUT ME

I am an Electrical Engineer from the University of Liège, specializing in Smart Grids. Driven by my desire to contribute to the energy transition, I found my path in the fast-evolving world of power systems, where curiosity and innovation are key. I have developed a strong interest in applying optimization and machine learning methods to power system applications. I am therefore deeply motivated to contribute, in any way possible, to the energy transition with my work.

## EDUCATION

- University of Liège • **Master of Science – Electrical Engineering**  
2021 - 2023  
(Summa Magna Cum Laude with the congratulations of the examination committee)  
*Thesis:* [Exploring the impact of the energy transition on electricity distribution systems: the beginning of the journey in search of equilibrium in the game between the network operator and its users](#)  
Supervisor: [Bertrand Cornélusse](#)
- University of Liège • **Bachelor of Science** (Magna Cum Laude)  
2018 - 2021  
Majoring in Electrical Engineering and Computer Science and minoring in Mechanical Engineering
- Athénée Royal Air Pur Seraing • **Secondary Education**  
2012 - 2018  
Fernand PISART scholarship obtained for good academic results

## WORK EXPERIENCE

- University of Liège • **FNRS Research Fellow (PhD) – A co-optimization approach to distribution network planning**  
2023 - present  
*Thesis:* [Exploring the impact of the energy transition on electricity distribution systems: a journey in search of equilibrium in the game between the network operator and its users](#)  
Supervisor: [Bertrand Cornélusse](#)  
[Publications & Conferences:](#)  
**2023 IEEE PES ISGT conference in Grenoble**  
"A one leader multi-follower approach to distribution network development planning"  
(link of the paper [here](#) & link of the presentation [here](#))
- University of Liège • **Internship at Elia Grid International (EGI Brussels)**  
Oct. - Nov. 2022  
40-day internship in the Power System Operation & Security Department
- University of Liège • **Research student - Smart Microgrids Team**  
Aug. – Sep. 2022  
I worked on a hardware-in-the-loop (HIL) software to develop real-time simulations of a power converter used in the supply stage of an electrolyzer (CleanGrid Project).
- University of Liège • **Student instructor – Electrical Circuits Numerical Analysis & Physics 1 & 2 courses**  
2020 - 2023  
Exercise sessions in auditorium & classrooms as well as peer tutoring

## LIFE EXPERIENCE

- University of Liège • **Pot'ingé – Member of the Biodiversity team**  
2023 - 2024  
The Pot'ingé gathers a group of individuals that seek to raise awareness among the university community about biodiversity, short circuit and sustainable development