Antoine **Wehenkel**

PHD CANDIDATE · MACHINE LEARNING
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PERSONAL STATEMENT

"We know the past but cannot control it. We control the future but cannot know it." Claude Shannon

In 2018, I was graduated in computer engineering (Msc) from **ULiège**. I spent my last year of study at **Ecole Polytechnique Fédérale de Lausanne (EPFL)** as an exchange student. There, I did my **master's thesis** in the laboratory of Professor **Jean-Yves Le Boudec**, which was about the parameters estimation of electrical distribution networks' lines. I am now a PhD student (FNRS Research Fellowship) in machine learning at ULiège (Belgium) under the supervision of Professor **Gilles Louppe**. The subject of my thesis lays at the intersection between simulation based inference and deep learning.

My main research interests revolve around **Statistics, Machine Learning** and **Information Theory**.

PUBLICATIONS & AWARDS

Publications **Unconstrained Monotonic Neural Networks, A. Wehenkel, G. Louppe - Neural Information Processing Systems 2019**
Parameter Estimation or Three Phase Untransposed Short Transmission Lines from Synchrophasor Measurements, A. Wehenkel, A. Mukhopadhyay, J.-Y. Leboudec, M. Paolone - IEEE Transactions on Instrumentation and Measurement
Recurrent machines for likelihood-free inference , A. Wehenkel, A. Pesah, G. Louppe - MetaLearn Workshop @ Neurips 2018
An App-based Algorithmic Approach for Harvesting Local and Renewable Energy Using Electric Vehicles, A. Dubois, A. Wehenkel, R. Fonteneau, F. Olivier, D. Ernst - ICAART 2017

Honours & awards **FNRS Grant (Research Fellowship; 2018 - 2022)**
Best Master's thesis award from AIM (2018)
Best Master's thesis award from AILg (2018)
Physics award for outstanding student (2013)
Physics award at belgian olympiads (2012 and 2013)

EDUCATION & TRAINING

Oct 2018 - Present **PhD candidate in Machine Learning -** *ULiège, Liège (Belgium)*
Deep Learning for Intractable Inverse Problems in Science

Sep 2016 - Jun 2018 **Master in engineering, Intelligent systems -** *ULiège, Liège (Belgium)*
Summa Cum Laude

Sep 2017 - Jun 2018 **Exchange student in the master of data science -** *EPFL, Lausanne (Switzerland)*
Average score: 5.8/6

Sep 2013 - Jun 2016 **Bachelor in engineering -** *ULiège, Liège (Belgium)*
Magna Cum Laude

PERSONAL SKILLS

Mother tongue French

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B1	B2

Digital skills Excellent programming skills in Python, C, C++, Matlab, Java and Scheme.
General expertise in Optimisation, Statistics, Machine Learning, Artificial Intelligence, Deep Learning, Data Mining.