

ne Wehenkel

PHD CANDIDATE · MACHINE LEARNING

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■ AWehenkel | ■ @WehenkelAntoine | ► Antoine Wehenkel

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 University of Liège (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 Prof. Jean-Yves Le Boudec on the parameter estimation of electrical distribution lines. I am now a PhD student (FNRS Research Fellowship) in machine learning at ULiège under the supervision of Prof. Gilles Louppe. In my research, I wish to advance simulationbased inference by exploring new means to implement more effective and stronger inductive bias into deep generative models.

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

PUBLICATIONS & AWARDS

- Selected publications · Graphical Normalizing Flows, A. Wehenkel, G. Louppe Under review
 - · You say Normalizing Flows I see Bayesian Networks, A. Wehenkel, G. Louppe INNF+ Workshop @ ICML2020
 - · 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 2020
 - · Introducing neuromodulation in deep neural networks to learn adaptive behaviours, N. Vecoven, D. Ernst, A. Wehenkel, G. Drion - PloS one 2020
 - · Recurrent machines for likelihood-free inference, A. Wehenkel, A. Pesah, G. Louppe MetaLearn Workshop @ Neurips 2018

- Honours & awards · FNRS Grant (Research Fellowship; 2018 2022)
 - · Best Master's thesis awards from AIM and 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

Deep Learning for Intractable Inverse Problems in Science

Sep 2016 - Jun 2018 Master in Computer Engineering - ULiège, Liège

Summa Cum Laude

Sep 2017 - Jun 2018 Exchange student in the Master in Data Science - EPFL, Lausanne

Average score: 5.8/6

Sep 2013 - Jun 2016 Bachelor in Engineering - ULiège, Liège

Magna Cum Laude

PERSONAL SKILLS

Mother tongue French

Other languages

s	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
า	B2	C1	B2	B1	B2

English

- Digital skills · Proficient in Python, C and C++.
 - · General expertise in Optimisation, Statistics, Artificial Intelligence, Machine Learning and Deep Learning.

- Teaching activities · Current: Deep Learning (ULiège), Introduction to Artificial Intelligence (ULiège).
 - Past: Computer Organization (ULiège), Electric Measurements (ULiège), Data Structures and Algorithms (ULiège), Electronic 2 (EPFL).