Victor Dheur

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Research Experience

10/2021–	**PhD student**, *Big Data and Machine Learning Lab*, *UMONS*
	Research on probabilistic models and uncertainty quantification in neural networks. Research topics include calibration, Bayesian learning, proper scoring rules, conformal prediction, and energy-based models.
	Director: S. Ben Taieb.
08/2020–11/2020	**Master's internship**, *Nokia Bell Labs*
	Implementation and evaluation of a signal translation model to extend the availability of deep learning solutions for detecting and diagnosing impairments on subscriber-ISP lines.
07/2019–08/2019	**Research Intern**, *Theoritical Computer Science Lab*, *UMONS*
	Research on solving parity games using binary decision diagrams, in the context of model checking.
	Director: V. Bruyère.

Education

2019–2021	**Master's degree**, *UMONS*, *Computer Science*
	Summa Cum Laude
2016–2019	**Bachelor's degree**, *UMONS*, *Computer Science*
	Magna Cum Laude

Projects

Master's thesis	**Uncertainty quantification in neural networks**.
	Study of state-of-the-art methods for uncertainty quantification in machine/deep learning. Experimental study with synthetic and real-world datasets according to different evaluation measures.
	Director: S. Ben Taieb.
Master 1 project	**Machine learning applied to routing in wireless sensor networks**.
	Use of reinforcement learning to optimize packet routing. Comparison of a distributed and a centralized approach.
	Directors: S. Ben Taieb, B. Quoitin.

Talks

24/03/2023	**Diffusion Models**, *Machine Learning II Seminars*, UMONS, Mons, Belgium
23/03/2023	**How does Artificial Intelligence Really Work?**, *Journées Math-Sciences*, UMONS, Mons, Belgium
16/03/2023	**Deep Generative Models**, *Machine Learning II Seminars*, UMONS, Mons, Belgium

20/06/2022	**Conformalized Quantile Regression**, *Big Data and Machine Learning Reading Group*, UMONS, Mons, Belgium
30/03/2022	**Regularization methods for neural network calibration**, *InforTech Day*, UMONS, Mons, Belgium
19/01/2022	**Score Matching and Langevin Dyncamics**, *Big Data and Machine Learning Reading Group*, UMONS, Mons, Belgium
13/12/2021	**Uncertainty Quantification in Machine Learning**, *Big Data and Machine Learning Reading Group*, UMONS, Mons, Belgium

Teaching

2022	**Teaching Assistant**, *UMONS* Directed the labs of the *compilation* course.
2022, 2021, 2020	**(Student) teaching Assistant**, *UMONS* Assistant for the labs of the *computer architecture* course.
08/2018	**Student Tutor**, *UMONS* Computer science student tutor, helping second year students who failed exams.

Miscellaneous

2020–2022	**Google Hashcode**: **114th** (out of 9000+) in 2022, **193rd** (out of 9000+) in 2021, **283rd** (out of 10000+) in 2020.
2018–2020	**Benelux Algorithm Programming Contest** (BAPC): **2nd** (out of 77) in 2020, **8th** (out of 55) in 2019, **6th** (out of 44) in 2018.
11/2020, 03/2019	**Battle Dev**: **35th** (out of 4500+) in November 2020, **20th** (out of 4000+) in Mars 2019.

Languages

French	Native Proficiency
English	Professional Working Proficiency
Dutch	Elementary Proficiency