Toon Vanderschueren

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Academic Experience

KU Leuven & University of Antwerp   2020 – Present
Joint PhD in Business Economics and Mathematics; FWO Fellowship Fundamental Research
Supporting decision-making in business using machine learning

KU Leuven
- *Master of Artificial Intelligence: Engineering and Computer Science (84%)*   2019 – 2020
  Thesis: "Applying Deep Learning to Semantic and Superpixel Segmentation in Medical Images"
- *Master of Business Engineering (77%)*   2017 – 2019
  Thesis: "The Influence of Joining an Accelerator on a Startup's Employment Growth"
- *Bachelor of Philosophy: Ethics (77%)*   2017 – 2019
- *Bachelor of Business Engineering (78%)*   2014 – 2017
  Semester at The Wharton School of the University of Pennsylvania   2016

Professional Experience

Down2Earth   July – August 2019
Private equity analyst (summer internship)
- Conducted market and industry research.
- Identified and analyzed new investment opportunities.
- Provided support to the portfolio companies.

AE   August 2018
Junior consultant – marketing (summer internship)
- Carried out an extensive competitor analysis to recommend changes to AE's business offerings and marketing strategy and specified the implications for AE's internal organization.
- Developed a proposal for a new blockchain project for a potential client.

Needle Strategy   July 2017
Digital consultant (summer internship)
- Assisted on several projects in various sectors consulting clients on digital transformation.
- Wrote a blog post on the latest trends in cryptocurrencies.
- Assisted in the development of a business plan for a start-up.

Skills

Languages: Dutch (native), English (fluent), French (intermediate)
Programming skills: Python, LaTeX
GMAT: 740 (Verbal: 44; Quantitative: 48)

Interests

Co-founder of an amateur futsal club
Producing and listening to electronic music

Publications

Vanderschueren, T., Boute, R., Verdonck, T., Baesens, B., & Verbeke, W. (2022). Prescriptive maintenance with causal machine learning. *arXiv preprint arXiv:2206.01562*.

Vanderschueren, T., Baesens, B., Verdonck, T., & Verbeke, W. (2022). A new perspective on classification: optimally allocating limited resources to uncertain tasks. *arXiv preprint arXiv:2202.04369*.

Vanderschueren, T., Verdonck, T., Baesens, B., & Verbeke, W. (2022). Predict-then-optimize or predict-and-optimize? An empirical evaluation of cost-sensitive learning strategies. *Information Sciences, 594*, 400-415.

Conference and workshop presentations

SCIS Workshop at the International Conference on Machine Learning (ICML), Baltimore.	July 2022
European Conference on Operational Research (EURO), Helsinki.	July 2022
International Working Seminar on Production Economics, Innsbruck (virtual).	February 2022
International Federation of Operational Research Societies (IFORS), Seoul (virtual).	August 2021
European Conference on Operational Research (EURO), Athens (virtual).	July 2021
Eastern European Summer School (EEML), Budapest (virtual).	July 2021
ORBEL Online Workshop on Business Analytics, virtual.	January 2021

Invited talks

BASF – Data Analytics and Machine Learning Seminar.	June 2022
BNP Paribas Fortis – Data Science Knowledge Sharing Session.	April 2022

Teaching

Daily supervisor for 6 master theses and 1 research internship.	2021 – 2022
Daily supervisor for 4 master theses and 2 research internships.	2020 – 2021