BAVO (DE COCK) CAMPO

DATA SCIENTIST & STATISTICIAN

CONTACT

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Publication list
Belgium

EDUCATION

PhD in Mathematical Statistics (Actuarial Science)
2023 KU Leuven

MSc in Statistics
2019 KU Leuven
Magna Cum Laude

BSc/MSc in Psychology
2012/2014 KU Leuven

GENERAL SKILLS

Programming
R
LaTeX
C++
Python
SAS

Operating Systems
Windows
Linux
MacOS

Data analytics
Data preprocessing
Data wrangling
Data visualization
Exploratory analysis
In-depth analysis
Predictive modeling

Modeling techniques
Statistics
Machine learning

Languages
Dutch
English
French
German

WORK EXPERIENCE

Data science

Doctoral researcher at KU Leuven 10/2019 - 10/2023
Dpt. of Accountancy, Finance and Insurance

My research focused on how to reduce hierarchically structured categorical variables (e.g. hospitals and patients within hospitals) to their essence using a combination of **statistical** and **machine learning techniques (NLP)**, how to **construct predictive models** when both subject-specific and hierarchically structured variables are available and on designing a simulation engine to generate synthetic fraud network data.

- Developed and tested a reusable workflow and code for the **construction** and **validation** of prediction models;
- Took responsibility for planning, organizing, programming, executing and analyzing research;
- Stayed up to date with and applied **state-of-the art** statistical and machine learning techniques in my research projects;
- **Developed** 5+ statistical **software** packages, of which 1 is published on **CRAN**;
- Presented intermediate research results at **international conferences**;
- **Communicated** findings to **diverse audiences**, including those with non-technical backgrounds.

Senior Data Scientist 10/2019 - 10/2023
Data Analytics Dpt. (confidential)

- Translated the company's research questions into an **analysis plan** and presented the results in a clear and concise manner to all stakeholders;
- Analyzed and **improved** the company's **prediction** model, which is currently **implemented** and used by the company;
- Took responsibility for developing, testing and implementing reusable code.

Non-Life Risk Officer at Ageas 10/2023 - Present
Valuation Non-Life Risk

Leveraging my methodological expertise, I continuously refine, improve, and challenge existing processes.

- **Automating** internal model processes;
- Thoroughly **examining** and **challenging** existing **methodologies**, whilst **developing** and implementing **alternative** methods to drive continuous improvement;
- Guiding and **leading** tool development, deployment and testing.

Statistics

Biostatistician at KU Leuven 02/2015 - 09/2018
Dpt. of Development and Regeneration 10/2018 - 10/2022

As part of the statistical unit of the interdisciplinary International Ovarian Tumor Analysis (IOTA) group I performed, reported and discussed the results of the statistical analyses. Starting 10/2018, I continued working on a voluntary basis.

- Validated and contributed to the development of **clinical prediction models**;
- Worked on 20+ research projects, both clinical and methodological;
- Contributed to highly **influential research** published in high impact journals, such as The Lancet Oncology, and which resulted in a total of 1000+ citations;
- Took responsibility for developing, testing and implementing reusable code;
- **Developed** 10+ statistical **software** packages, of which 1 is published on **CRAN** and 3 that are still actively being used internally;
- Managed **database** of one of the longest running international prospective cohort studies to date (i.e. the IOTA5 study with a follow-up of 9 years).