BAVO D.C. 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

Insurance Research Group

My research focused on how to reduce hierarchiclaly 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;
- 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**;
- **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

Currently, I drive the development and implementation of the **internal models** dedicated to **external reinsurance**. My role involves understanding and implementing treaty structures as well as **evaluating** reinsurance strategies. Alongside my focus on external reinsurance modeling, my role extends to the following key responsibilities:

- managing the **automation** of internal model processes and runs;
- examining and **challenging** existing **methodologies**, whilst developing and implementing alternative methods;
- testing and guiding the development of internal model tools;
- leading the development and **deployment** of tools for testing the models.

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;
- 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).

Honorary Research Associate at Imperial College
📅 07/2024 - Present

Dpt. of Metabolism, Digestion and Reproduction

I am in charge of **all aspects** of the **analysis**, including data management, designing and performing the analysis, compiling and interpreting the results, and ultimately preparing a report and a publishable article.