

# BAVO (DE COCK) CAMPO

## DATA SCIENTIST & BIOSTATISTICIAN



### CONTACT

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### 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

#### Biomedical science

##### 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).

##### 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.

#### 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.