

BAVO (DE COCK) CAMPO

DATA SCIENTIST/STATISTICIAN



CONTACT

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📄 Publication list

EDUCATION

PhD in Actuarial Science

📅 Present 📍 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 ●●●●●●
(e.g. identifying inconsistencies)
Data wrangling ●●●●●●
Data visualization ●●●●●●
Exploratory analysis ●●●●●●
In-depth analysis ●●●●●●
Predictive modeling ●●●●●●

Modeling techniques

Statistics ●●●●●●
Machine learning ●●●●●●

Languages

Dutch ●●●●●●
English ●●●●●●
French ●●●●●●
German ●●●●●●

WORK EXPERIENCE

Doctoral researcher at KU Leuven

Dpt. of Accountancy, Finance and Insurance

📅 10/2019 - Present

My research focused on workers' compensation insurance and fraud detection in motor insurance. I devised an algorithm to reduce hierarchically structured categorical variables (e.g. industry classification systems such as the NACE, NAICS) to their essence and developed a workflow to construct and validate a data-driven insurance pricing model when both subject-specific and hierarchically structured variables are available. Further, I developed an insurance fraud network data simulation machine, to develop and evaluate insurance fraud detection strategies.

- 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;
- Assisted and advised colleagues with programming related questions;
- Guided 9 master thesis students.

Senior Data Scientist at an insurance company (confidential)

Data Analytics Dpt. (as an external employee)

📅 10/2019 - Present

- Translated the insurance company's research questions into an analysis plan;
- Presented research results to the insurance company in a clear and concise manner;
- Analyzed and improved the insurance company's pricing model, which is currently implemented and used by the company;
- Provided confidential reports about research results, tailored and documented statistical software to be used by the insurance company;
- Ensured continuation of a research project of a post-doctoral researcher.

Statistical researcher at KU Leuven

Dpt. of Development and Regeneration

📅 02/2015 - 09/2018

As part of the statistical unit of the International Ovarian Tumor Analysis (IOTA) group I performed, reported and discussed the results of the statistical analyses.

- 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;
- 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);
- Developed 10+ statistical software packages, of which 1 is published on CRAN and 3 that are still actively being used internally.

Voluntary research associate at KU Leuven

Dpt. of Managerial Economics, Strategy and Innovation

📅 03/2016 - 04/2019

Worked as a consulting statistical researcher on (confidential) projects for the private sector.