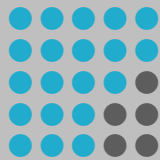# BAVO DE COCK CAMPO

CONTACT

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- 🏠 bavodc.github.io/
- ⌗ @BavoDC
- in Bavo De Cock Campo
- 0000-0002-1310-6336
- Publication list

GENERAL SKILLS

Programming
- **R**
- **LaTeX**
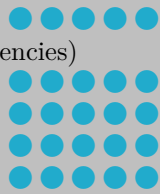- **C++**
- **Python**
- **SAS**

Operating Systems
- **Windows**
- **Linux**
- **MacOS**

Data analytics
- **Data preprocessing**
  (e.g. identifying inconsistencies)
- **Data visualization**
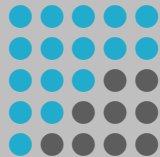- **Exploratory analysis**
- **In-depth analysis**
- **Predictive modeling**

Modeling techniques
- **Statistics**
- **Machine learning**

Languages
- **Dutch**
- **English**
- **French**
- **German**
- **Russian**

WORK HISTORY

📅 10/2019 - Present — **Doctoral researcher**
📍 Dpt. of Accountancy, Finance and Insurance
Faculty of Economics and Business
KU Leuven

📅 02/2015 - 09/2018 — **Statistical researcher**
📍 Dpt. of Development and Regeneration
Faculty of Medicine
KU Leuven

📅 03/2016 - 04/2019 — **Voluntary research associate**
📍 Dpt. of Managerial Economics, Strategy and Innovation
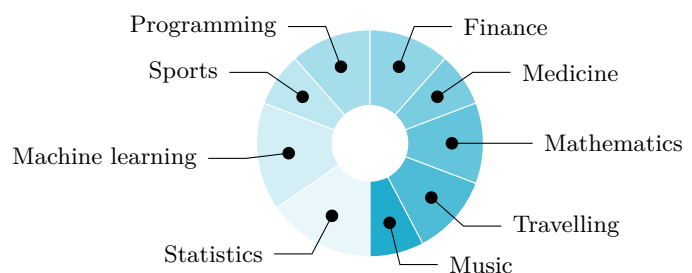Faculty of Economics and Business
KU Leuven

EDUCATION

📅 Present — **PhD in Business Economics**
📍 KU Leuven

📅 2019 — **MSc in Statistics**
📍 KU Leuven

📅 2014 — **MSc in Psychology**
📍 KU Leuven

📅 2012 — **BSc in Psychology**
📍 KU Leuven

DATA SCIENCE SKILLS

GLM(M)s · Tree-based methods · Cluster analysis · Missing data · Neural networks · Predictive modeling · Class imbalance · HPC · Penalized regression · Parallel programming · Agreement · NLP · Reliability

PERSONAL INTERESTS

PUBLICATIONS

[1] L. Wynants, J. Verbakel, L. Valentin, *et al.*, "The risk of endometrial malignancy and other endometrial pathology in women with abnormal uterine bleeding: An ultrasound-based model development study by the ieta group.," eng, *Gynecol Obstet Invest*, Feb. 2022. DOI: `10.1159/000522524`. [Online]. Available: `https://www.ncbi.nlm.nih.gov/pubmed/35152217`.

[2] J. Verbakel, R. Heremans, L. Wynants, *et al.*, "Risk assessment for endometrial cancer in women with abnormal vaginal bleeding: Results from the prospective ieta-1 cohort study.," eng, *Int J Gynaecol Obstet*, Jan. 2022. DOI: `10.1002/ijgo.14097`. [Online]. Available: `https://www.ncbi.nlm.nih.gov/pubmed/35044676`.

[3] B. Campo and K. Antonio, *Insurance pricing with hierarchically structured data: An illustration with a workers' compensation insurance product*, Online, Jul. 2021.

[4] J. Verbakel, E. Steyerberg, H. Uno, *et al.*, *Roc curves for clinical prediction models part 1. roc plots showed no added value above the auc when evaluating the performance of clinical prediction models (vol 126, pg 207, 2020)*, English, Feb. 2021. DOI: `10.1016/j.jclinepi.2020.11.013`. [Online]. Available: `http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2%5C&SrcApp=PARTNER_APP%5C&SrcAuth=LinksAMR%5C&KeyUT=WOS:000612857500024%5C&DestLinkType=FullRecord%5C&DestApp=ALL_WOS%5C&UsrCustomerID=ef845e08c439e550330acc77c7d2d848`.

[5] T. Van den Bosch, J. Verbakel, L. Valentin, *et al.*, "Typical ultrasound features of various endometrial pathologies described using international endometrial tumor analysis (ieta) terminology in women with abnormal uterine bleeding," English, *ULTRASOUND IN OBSTETRICS & GYNECOLOGY*, vol. 57, no. 1, pp. 164–172, Jan. 2021, ISSN: 0960-7692. DOI: `10.1002/uog.22109`. [Online]. Available: `http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2%5C&SrcApp=PARTNER_APP%5C&SrcAuth=LinksAMR%5C&KeyUT=WOS:000604059600029%5C&DestLinkType=FullRecord%5C&DestApp=ALL_WOS%5C&UsrCustomerID=ef845e08c439e550330acc77c7d2d848`.

[6] J. Verbakel, E. Steyerberg, H. Uno, *et al.*, "Roc curves for clinical prediction models part 1. roc plots showed no added value above the auc when evaluating the performance of clinical prediction models," English, *JOURNAL OF CLINICAL EPIDEMIOLOGY*, vol. 126, pp. 207–216, Oct. 2020, ISSN: 0895-4356. DOI: `10.1016/j.jclinepi.2020.01.028`. [Online]. Available: `http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2%5C&SrcApp=PARTNER_APP%5C&SrcAuth=LinksAMR%5C&KeyUT=WOS:000576195200031%5C&DestLinkType=FullRecord%5C&DestApp=ALL_WOS%5C&UsrCustomerID=ef845e08c439e550330acc77c7d2d848`.

[7] B. Van Calster, M. van Smeden, B. De Cock, and E. Steyerberg, "Regression shrinkage methods for clinical prediction models do not guarantee improved performance: Simulation study," English, *STATISTICAL METHODS IN MEDICAL RESEARCH*, vol. 29, no. 11, pp. 3166–3178, May 2020, ISSN: 0962-2802. DOI: `10.1177/0962280220921415`. [Online]. Available: `http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2%5C&SrcApp=PARTNER_APP%5C&SrcAuth=LinksAMR%5C&KeyUT=WOS:000534504900001%5C&DestLinkType=FullRecord%5C&DestApp=ALL_WOS%5C&UsrCustomerID=ef845e08c439e550330acc77c7d2d848`.

[8] B. De Cock, H. Uno, J. Verbakel, G. Collins, E. Steyerberg, and B. Van Calster, *R package to visualize the performance of a (logistic) prediction model at different cutoffs.* Version 0.1.1, https://github.com/janverbakel/ClassificationPlot. [Online]. Available: `https://github.com/janverbakel/ClassificationPlot`.

[9] W. Froyman, C. Landolfo, B. De Cock, *et al.*, "Risk of complications in patients with conservatively managed ovarian tumours (iota5): A 2-year interim analysis of a multicentre, prospective, cohort study," English, *LANCET ONCOLOGY*, vol. 20, no. 3, pp. 448–458, Mar. 2019, ISSN: 1470-2045. DOI: `10.1016/S1470-2045(18)30837-4`. [Online]. Available: `http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2%5C&SrcApp=PARTNER_APP%5C&SrcAuth=LinksAMR%5C&KeyUT=WOS:000459953700050%5C&DestLinkType=FullRecord%5C&DestApp=ALL_WOS%5C&UsrCustomerID=ef845e08c439e550330acc77c7d2d848`.

[10] L. Wynants, J. Verbakel, L. Valentin, *et al.*, *An ultrasound-based algorithm to determine the likelihood of various causes of abnormal uterine bleeding: A proposal by the ieta group.* Award 'Best Oral Communication' prize., Singapore, Oct. 2018.

[11] W. Froyman, C. Landolfo, B. De Cock, *et al.*, *Balancing risks of surgery with risks of conservative management of benign adnexal masses: Results from the postmenopausal follow-up arm of iota5*, Singapore, Aug. 2018.

[12] J. Verbakel, E. Steyerberg, H. Uno, *et al.*, *Roc-curves and classification plots for clinical prediction models: From waste of ink towards useful insight.* Utrecht, Jul. 2018.

[13] P. Sladkevicius, A. Installe, T. Van Den Bosch, *et al.*, "International endometrial tumor analysis (ieta) terminology in women with postmenopausal bleeding and sonographic endometrial thickness $>=$ 4.5 mm: Agreement and reliability study," English, *ULTRASOUND IN OBSTETRICS & GYNECOLOGY*, vol. 51, no. 2, pp. 259–268, Feb. 2018, ISSN: 0960-7692. DOI: `10.1002/uog.18813`. [Online]. Available: `http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2%5C&SrcApp=PARTNER_APP%5C&SrcAuth=LinksAMR%5C&KeyUT=WOS:000424669500017%5C&DestLinkType=FullRecord%5C&DestApp=ALL_WOS%5C&UsrCustomerID=ef845e08c439e550330acc77c7d2d848`.

[14] T. Bourne, B. De Cock, L. Wynants, *et al.*, "Doctors' perception of support and the processes involved in complaints investigations and how these relate to welfare and defensive practice: A cross-sectional survey of the uk physicians," en, *BMJ Open*, vol. 7, no. 11, Nov. 2017, ISSN: 2044-6055. DOI: `10.1136/bmjopen-2017-017856`.

[15] W. Froyman, C. Landolfo, B. De Cock, *et al.*, *Risk of complications in conservatively managed adnexal masses initially thought to be benign at subjective impression by the ultrasound examiner*, en$_U$S, Vienna, Austria, Sep. 2017. DOI: 10.1002/uog.17570.

[16] W. Froyman, C. Landolfo, B. De Cock, *et al.*, *Prospective validation of iota methods in the differentiation between benign and malignant adnexal masses*, en$_U$S, Vienna, Austria, Sep. 2017. DOI: 10.1002/uog.17624.

[17] C. Landolfo, W. Froyman, T. Bourne, *et al.*, *Performance of rmi, iota adnex and simple rules risk model in the assessment of adnexal masses not classifiable using the revised benign easy descriptors as first step: A novel two-step strategy.* Award for Best Short Oral Presentation., Vienna, Austria, Sep. 2017.

[18] C. Landolfo, W. Froyman, T. Bourne, *et al.*, *Iota benign easy descriptors and adnex model integrated in a 'traffic light system' to guide the clinical management of adnexal pathology.* Vienna, Austria, Sep. 2017.

[19] B. De Cock, T. Bekkering, and K. Hannes, *Evaluating the potential negative effects of school-based prevention programs aiming to reduce alcohol and drug misuse in adolescents: A systematic review of research articles prior to 2013*, en. KU Leuven: Centrum voor Sociologisch Onderzoek, Social Research Methodology Group, 2017, ISBN: 9789067842068.

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[21] W. Froyman, C. Landolfo, B. De Cock, *et al.*, *Prospective validation of the adnex model without ca-125 in the differentiation between benign and malignant adnexal masses*, en, Rome, IT, Sep. 2016.

[22] A. Sayasneh, L. Ferrara, B. De Cock, *et al.*, "Evaluating the risk of ovarian cancer before surgery using the adnex model: A multicentre external validation study," en, *British Journal of Cancer*, vol. 115, no. 5, Aug. 2016, ISSN: 0007-0920.

[23] S. Guerriero, B. Van Calster, E. Somigliana, *et al.*, "Age-related differences in the sonographic characteristics of endometriomas," en, *Human Reproduction*, vol. 31, no. 8, pp. 1723–1731, Aug. 2016, ISSN: 0268-1161.

[24] W. Froyman, C. Landolfo, T. Bourne, *et al.*, *Performance of the rmi and iota adnex and simple rules risk model in the evaluation of adnexal masses not classifiable using the easy descriptors as first step*, en, Presentation awarded with Dame Hilda Lloyd medal., Birmingham, UK, Jun. 2016.

[25] B. Van Calster, D. Nieboer, Y. Vergouwe, B. De Cock, M. Pencina, and E. Steyerberg, "A calibration hierarchy for risk models was defined: From utopia to empirical data," en$_U$S, *Journal of Clinical Epidemiology*, vol. 74, pp. 167–176, Jun. 2016, ISSN: 0895-4356.

[26] T. Bourne, J. Vanderhaegen, R. Vranken, *et al.*, "Doctors' experiences and their perception of the most stressful aspects of complaints processes in the uk: An analysis of qualitative survey data," en, *BMJ Open*, vol. 6, no. 7, May 2016, ISSN: 2044-6055. DOI: 10.1136/bmjopen-2016-011711.