CURRICULUM VITAE

Margaux Delporte

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Belgium, 18 August 1996

Website / GitHub / Google Scholar

Education

PhD in Biostatistics – KU Leuven 2021-2O24

- Thesis topic: '*A joint model for longitudinal outcomes and longitudinal covariates'*
- Date defence: 22 October 2024
- Supervisors: Prof. Geert Verbeke, Prof. Geert Molenberghs, dr. Steffen Fieuws

Master of Statistics – KU Leuven, Magna cum laude 2017-2019

- Thesis topic: *Learning Dashboard Activity as a 'Learning Trace'*
- Supervisor: Prof. Ir. Tinne De Laet
- Relevant courses: Introduction to Longitudinal Data Analysis, Concepts of multilevel, longitudinal, and mixed models, Advanced analytics in a big data world, Data Mining and Neural Networks, Machine Learning and Inductive Inference, Epidemiology

Bachelor in Psychology- KU Leuven, Cum Laude 2014-2017

Experience

Postdoctoral Researcher – Cornell University 2024-…
False discovery rate control and omics data in breast cancer research

Teaching Assistant– KU Leuven 2019- 2024
Teaching bachelor and master level courses, guiding dissertations, statistical consulting

Data Science Intern – De Persgroep-Medialaan Summer 2019
Personalization of the newsfeed with machine learning techniques

Junior Statistician at Leuven Statistics Research Centre – KU Leuven 2018-2019
Providing consultancy and teaching short courses for researchers

Data Science Intern – Vente-Exclusive via Exellys Summer 2018
Business intelligence and machine learning projects

Skills

Languages

- Dutch (Native)
- English (Fluent)
- French (Intermediate)

Programming

- R
- SAS (*SAS Certified Base Programmer for SAS 9)*
- SPSS
- Python

Publications

Methodological papers

1. **Delporte, M.,** Verbeke, G., Fieuws, S., & Molenberghs, G. (2025). Accelerating Computation: A Pairwise Fitting Technique for Multivariate Probit Models. Computational Statistics & Data Analysis*, 203*, 108082.
2. **Delporte, M**., Aerts, M., Verbeke, G., & Molenberghs, G. (2025). Analysing matched continuous longitudinal data: A review. Statistical Methods in Medical Research. *34*(1), 170–179.
3. **Delporte, M**., Molenberghs, G., Fieuws, S., & Verbeke, G. (2024). A Joint Normal-Ordinal (Probit) Model for Ordinal and Continuous Longitudinal Data. *Biostatistics*, *26*(1).
4. **Delporte, M**., Fieuws, S., Molenberghs, G., Verbeke, G, De Coninck D., & Hoorens, V. (2023). A Joint Normal-Binary (Probit) Model for High-Dimensional Longitudinal Data. *Statistical Modelling,* 25(1). 13-34.
5. **Delporte, M**., Fieuws, S., Molenberghs, G., Verbeke, G., Wanyama, S.S., Hatziagorou, E., & De Boeck, C. (2022). A joint normal-binary (probit) model. *International statistical review.* 90, S37-S51

Applied papers

6. **Delporte, M.,** De Witte, D., Molenberghs, G., Verbeke, G., Demarest, S., & Hoorens, V. (2025). Recent Personal and Vicarious Experience With COVID-19 Affect Personal, but not Comparative Optimism. A Large Longitudinal Study. *Journal of Behavioral Medicine*. In Press.
7. **Delporte, M.**, Verbeeck, J., Brambilla, I., Zimmermann, G., Molenberghs, G., Nabbout. R., & Residras Collaboration Group. (2025). Dravet Syndrome: Insights into Seizure and Speech Progression from Registry Data. *Epilepsy & Behavior*. 170,110456.
8. Natalia, Y.A., **Delporte, M**., De Witte, D., Beutels, P., Dewatripont, M., & Molenberghs, G. (2023). Assessing the impact of COVID-19 passes and mandates on disease transmission, vaccination intention, and uptake: a scoping review. BMC Public Health, 23 (1).
9. **Delporte, M.,** De Witte, D., Molenberghs, G., Verbeke, G., Demarest, S., & Hoorens, V. (2023). Do Health Beliefs About COVID-19 Predict Morbidity? A Longitudinal Study. *Social and Personality Psychology Compass. 17(11). e12852.*
10. **Delporte M**, De Coninck D, d'Haenens L, Luyts M, Verbeke G, Molenberghs G, & Matthys K. (2023). A longitudinal perspective on perceived vulnerability to disease during the COVID-19 pandemic in Belgium. *Health Promotion International, 38*(2).
11. **Delporte, M**., Luyts, M., Molenberghs, G., Verbeke, G., Demarest, S., & Hoorens, V. (2023). Do optimism and moralization predict vaccination? A five-wave longitudinal study. *Health Psychology. 42* (8), 603-614.
12. Van Eijgen J, Heintz A,van der Pluijm C, **Delporte M**, De Witte D, Molenberghs G.,Barbosa-Breda J.,& Stalmans I. (2023). Normal tension glaucoma: A dynamic optical coherencetomography angiography study. *Frontiers in Medicine, 9*,1037471.
13. De Witte,D., **Delporte M**., Molenberghs, G., Verbeke, G., & Hoorens, V. (2023). Self-uniqueness beliefs and adherence to recommended precautions. A 5-wave longitudinal COVID-19 study. *Social Science & Medicine, 317*.
14. Vandekerckhove, I., van den Hauwe, M., De Beukelaer, N., Stoop, E., Goudriaan, M., **Delporte, M**., Molenberghs, G., Van Campenhout, A., De Waele, L., Goemans, N., De Groote, F., & Desloovere, K. (2022). Longitudinal Alterations in Gait Features in Growing Children With Duchenne Muscular Dystrophy*. Frontiers in human neuroscience, 16*. Art.No. ARTN 861136.
15. Broos, T., Pinxten, M., **Delporte, M**., Verbert, K., & De Laet, T. (2020). Learning dashboards at scale: early warning and overall first year experience. *Assessment & Evaluation In Higher Education*, *45* (6), 855-874.

Presentations at international conferences

Invited sessions

- Eastern North American Region International Biometric Society 2025, Spring meeting
  Location: New Orleans, Louisiana
  Date: May 12-14, 2025
  Title: Longitudinal Data Analysis in the iStore Project.

Contributed sessions

- Joint Statistical Meetings 2024
  Location: Portland, Oregon
  Date: August 3-8, 2024
  Title: A Joint Normal-Ordinal (Probit) Model for Ordinal and Continuous Longitudinal Data
- Eastern North American Region International Biometric Society 2023, Spring meeting
  Location: Nashville, Tennessee
  Date: March 19-22, 2023
  Title: A joint normal-binary (Probit) model for high-dimensional data.
- 31th International Biometric Conference
  Location: Riga, Latvia
  Date: July 10-15, 2022
  Title: A joint normal-binary (Probit) model

Local talks

- Leuven Statistics Days
  Theme: Collaboration
  Location: Leuven, Belgium
  Date: November 23, 2023
  Title: A longitudinal perspective on perceived vulnerability to disease during the COVID-19-pandemic in Belgium
- Taiwan Studies Seminar
  Theme: Social life and governance in/after the COVID-19-pandemic: a comparison between Taiwan and the EU
  Location: Leuven, Belgium
  Date: May 3, 2023
  Title: A longitudinal perspective on perceived vulnerability to disease during the COVID-19-pandemic in Belgium
- Research Day Interuniversity Institute for Biostatistics and statistical Bioinformatics
  Location: Leuven, Belgium
  Date: 21 October, 2021
  Title: A joint normal-binary(probit) model

Teaching

Courses guided as a teaching assistant:

Master level

- 'HBDS 5008: Biostatistics II', MS in Biostatistics and Data Science, Weill Cornell Medicine, 2024-2025
- 'E0C56A: Clinical Scientific Preparation for the Master's Paper', Master of Medicine, KU Leuven, 2019-2025
- 'K09M1A: Statistics for drug development', Master in Pharmaceutical Sciences, KU Leuven, 2019-2025
- 'E0G65A: Statistics part I: Theory and exercises', Master of Nursing Science, KU Leuven, 2020-2025

Bachelor level

- 'E04Y6A: Introduction to medical research', Bachelor of Medicine, KU Leuven, 2019-2025
- 'E06Y7A: Introduction to biostatistics', Bachelor of Medicine, KU Leuven, 2019-2025
- 'K08B6A: Pharmaceutical data analysis', Bachelor in Pharmaceutical Sciences, KU Leuven, 2019-2025

Grants

- Travel Grant- The Research Foundation Flanders (FWO) – Participation in the Joint Statistical Meeting 2024.

Supervision of master students

- Diego Alejandro Gomes (2022-2023)
    - Master of Science in Statistics and Data Science
    - Thesis topic: "Combining Hyperspectral Imaging Features with Multimodal Retinal Metrics to Screen for Alzheimer's Disease: An Exploratory Longitudinal Joint Modeling Approach"
- Meng Wang (2020-2022)
    - Master of Science in Statistics and Data Science
    - Thesis topic: "Application of mixed models in longitudinal studies of children with neuromotor problems''

Attended courses

- "Practical Smoothing. The Joys of P-splines" by Paul Eilers, March 08-09, 2023
- "Joint Modeling of Longitudinal and Time-to-Event Data with Applications in R" by Dimitris Rizopoulos, August 22-26, 2022
- "Seminar for Advanced Data Analysis: Introduction to methods for causal inference" by Stijn Vansteelandt, May 18- 19, 2022