CURRICULUM VITAE

Margaux Delporte
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Website | GitHub | Google Scholar

EDUCATION

PhD in Biostatistics (50%) – KU Leuven, Belgium 2019-2024
- Thesis topic: A joint model for longitudinal outcomes and longitudinal covariates
- Supervisors: Dr. Geert Verbeke and Dr. Geert Molenberghs

Master of Science in Statistics – KU Leuven, Belgium 2017–2019
- Thesis topic: Learning Dashboard Activity as a 'Learning Trace'
- Supervisor: Dr. Tinne De Laet

Bachelor of Science in Psychology – KU Leuven, Leuven, Belgium 2014–2017

EXPERIENCE

Postdoctoral Researcher – Weill Cornell Medicine, New York, NY 2024–
- Dep. of Population Health Sciences, Div. Biostatistics (50%) & Div. Epidemiology (50%)
- False Discovery rate control in high-dimensional data (Dr. Yushu Shi)
- Cancer prevention and risk prediction in breast cancer (Dr. Rulla Tamimi)

Teaching Assistant (50%) – KU Leuven, Leuven, Belgium 2019–2024
- Taught six undergraduate and graduate courses in biostatistics for 400+ students
- Supervised 2 graduate students (MS in Statistics)
- Delivered statistical consulting to medical researchers (3hrs/month)

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

Junior Statistician at Leuven Statistics Research Centre – KU Leuven, Belgium 2018–2019
- Provided consultancy and taught short courses for researchers

Data Science Intern – Vente-Exclusive, Brussels, Belgium 2018
- Created an automatically updating dashboard with metrics to track flash sales

SKILLS

Statistics: Longitudinal data, multivariate data, high-dimensional data, Survival analysis, HPC
Software: R, SAS, Python, SPSS, Stata, SQL, GitHub
Languages: Dutch (native), English (fluent), French (intermediate)

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*. *48*, 770–784.
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 Talks

- Eastern North American Region International Biometric Society 2025
  - *Longitudinal Data Analysis in the Istore Project.*

Contributed Talks

- American Society of Human Genetics Annual meeting 2025
  - *Polygenic Risk Scores as Predictors of Lethal Breast Cancer.*
- Joint Statistical Meetings 2024
  - *A Joint Normal-Ordinal (Probit) Model for Ordinal and Continuous Longitudinal Data.*
- Eastern North American Region International Biometric Society 2023, Spring meeting
  - *A Joint Normal-Binary (Probit) Model for High-Dimensional Data.*
- 31st International Biometric Conference 2022
  - *A Joint Normal-Binary (Probit) Model.*

TEACHING EXPERIENCE

Graduate level

- '*HBDS 5008: Biostatistics II'*, MS in Biostatistics and Data Science, Weill Cornell Medicine, 2024-2026
- '*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

Undergraduate 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

External Grants

- Pending ‘NCI Pathway to Independence Award for Early-Stage Postdoctoral Researchers’ (K99/R00) titled ‘Modifiable Behaviors, Immune Function, and Cancer Risk’. (October 2025)

Travel Awards

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

COMMITTEES / SERVICE

Professional Service

- Meyer Cancer Centre Trainee Advisory Council (2025-2026)

Reviewer

- Reviewer for Journal of the American Statistical Association, Annals of Applied Statistics, Biometrics, JCO Precision Oncology, Epilepsy & Behavior, Journal of Applied Statistics

MENTORING EXPERIENCE

Graduate Student Supervision

- Diego Alejandro Gomes, MS in Statistics and Data Science, KU Leuven
  "Combining Hyperspectral Imaging Features with Multimodal Retinal Metrics to Screen for Alzheimer's Disease: An Exploratory Longitudinal Joint Modeling Approach"
- Meng Wang, MS in Statistics and Data Science, KU Leuven
  "Application of Mixed Models in Longitudinal Studies of Children with Neuromotor Problems"

Undergraduate Research Supervision

- Noah Kay, BS in Mathematics, Bowdoin College
  Analysis of Invasive Ductal Carcinoma in the SEER Data