

## CURRICULUM VITAE

Margaux Delporte

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Belgium, 18 August 1996

[Website](#) / [GitHub](#)



### Education

<b>PhD in Biostatistics (50%)</b> – KU Leuven	2019-2024
<ul style="list-style-type: none"><li>Thesis topic: <i>'A joint model for longitudinal outcomes and longitudinal covariates'</i></li><li>Date defence: 22 October 2024</li><li>Supervisors: Prof. Geert Verbeke, Prof. Geert Molenberghs, dr. Steffen Fieuws</li></ul>	
<b>Master of Statistics</b> – KU Leuven	2017-2019
<ul style="list-style-type: none"><li>Magna cum laude</li><li>Thesis topic: <i>Learning Dashboard Activity as a 'Learning Trace'</i></li><li>Supervisor: Prof. Ir. Tinne De Laet</li></ul>	
<b>Bachelor in Psychology</b> - KU Leuven	2014-2017
<ul style="list-style-type: none"><li>Cum Laude</li></ul>	

### Experience

<b>Postdoctoral Researcher</b> – Cornell University	2024-...
False discovery rate control and omics data in breast cancer research	
<b>Teaching Assistant (50%)</b> – KU Leuven	2019- 2024
Teaching bachelor and master level courses, guiding dissertations, statistical consulting	
<b>Data Science Intern</b> – De Persgroep-Medialaan	Summer 2019
Personalization of the newsfeed with machine learning techniques	
<b>Junior Statistician at Leuven Statistics Research Centre</b> – KU Leuven	2018-2019
Providing consultancy and teaching short courses for researchers	
<b>Data Science Intern</b> – 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

### Methodological papers

1. **Delporte, M.**, Verbeke, G., Fieuws, S., & Molenberghs, G. (2024). Accelerating Computation: A Pairwise Fitting Technique for Multivariate Probit Models. *Computational Statistics & Data Analysis*. Accepted.
2. **Delporte, M.**, Aerts, M., Verbeke, G., & Molenberghs, G. (2024). Analysing matched continuous longitudinal data: A review. *Statistical Methods in Medical Research*. In Press.
3. **Delporte, M.**, Molenberghs, G., Fieuws, S., & Verbeke, G. (2024). A Joint Normal-Ordinal (Probit) Model for Ordinal and Continuous Longitudinal Data. *Biostatistics*. Accepted.
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*. Accepted.
5. **Delporte, M.**, Fieuws, S., Molenberghs, G., Verbeke, G., Wanyama, S.S., Hatziaiorou, E., & De Boeck, C. (2022). A joint normal-binary (probit) model. *International statistical review*. 90, S37-S51

### Applied papers

6. 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).
7. **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.
8. **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). Art.No. daad026.
9. **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.
10. 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.
11. 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. Art.No. 115595.
12. 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.
13. 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

- 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

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Courses guided as a teaching assistant:

### Master level

- '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

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

## Supervision of master students

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- 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"