Antoine Soetewey

antoinesoetewey.com · antoine.soetewey@uclouvain.be

Summary

I am a postdoctoral researcher in data science and statistics at HEC Liège and UCLouvain Saint-Louis Brussels, where I contribute to both the ODALON (Open multimodal Data for Automated LOcal News) and Beamm (BElgian Arithmetic Microsimulation Model) projects. Before that, I obtained a PhD in statistics at UCLouvain, where my research focused on survival analysis and biostatistical methods applied to cancer patients. In parallel with my research, I teach statistics and probability at the undergraduate and master's levels as a visiting lecturer at UCLouvain and UNamur.

Education

2024	**PhD in statistics** – UCLouvain, Belgium
2016	**MSc in econometrics** – Maastricht University, Netherlands
2015	**MSc in economics** – KU Leuven, Belgium
2014	**Exchange program** – University of Illinois at Urbana-Champaign, USA
2013	**BSc in economics** – UCLouvain, Belgium

Research experience

2024 – Present	**Postdoctoral researcher** in data science and statistics – HEC Liège & UCLouvain Saint-Louis Brussels, Belgium
2017 – 2024	**Doctoral researcher** in statistics – UCLouvain, Belgium

Teaching experience

2023 – Present	**Visiting lecturer** in statistics – UCLouvain & UNamur, Belgium
2017 – 2024	**Teaching assistant** in statistics – UCLouvain, Belgium

2018 – 2024   **Instructor** for UCLouvain's university certificates in statistics – SMCS, Belgium

Industry experience

2018 – 2024   **Consultant** in statistics and data analysis – SMCS, Belgium
- Statistical consulting for researchers and academics

2016 – 2017   **Data scientist** – Business & Decision, Belgium
- Involved in several projects focusing on data science and data visualization

Affiliations & academic service

2024 – Present   Reviewer for *Open Forum Infectious Diseases*, *SoftwareX* and *The Journal of Open Source Software (JOSS)*

2023 – 2024   Doctoral student representative at the *Thematic doctoral school of statistics and actuarial sciences, F.R.S.-FNRS*

2020 – 2022   Doctoral student representative at the *Louvain school of statistics, biostatistics and actuarial sciences, UCLouvain*

2017 – Present   Member of the *Royal Statistical Society of Belgium*

Technical skills & languages

Software   R (RStudio, R Markdown & Quarto, R Shiny), Jamovi, JASP, GitHub/GitLab, LaTeX, Web development

Languages   French (native), English (fluent), Dutch (basic)

Publications

Peer-reviewed journals

- Truong, H.C., Pham, Q.D., Phan, T.V., Vo, D.T.T., Nguyen, P.D., Nguyen, H.T., Le, N.N.T., Trinh, T.H., Nguyen, Q.D., Nguyen, N.T., Lam, T.T., **Soetewey, A.**, Nguyen, T.V., Nguyen, T.V. and Speybroeck, N. (2026). Effectiveness of pneumococcal conjugate vaccines against invasive pneumococcal disease in Vietnamese children prior to national introduction: A matched case-control study. *Vaccine, 77*, 128349. doi.org/10.1016/j.vaccine.2026.128349

- Soetewey, A., Heuchenne, C., Claes, A. and Descampe, A. (2026). AssociationExplorer: A user-friendly shiny application for exploring associations and visual patterns. *SoftwareX, 33*, 102483. doi.org/10.1016/j.softx.2025.102483

- Soetewey, A., Legrand, C., Denuit, M. and Silversmit, G. (2025). Semi-Markov modeling for disease incidence risk and duration. *Biostatistics & Epidemiology, 9*(1). doi.org/10.1080/24709360.2025.2517916

- Soetewey, A., Legrand, C., Denuit, M. and Silversmit, G. (2025). Right to be forgotten for mortgage insurance issued to cancer survivors: Critical assessment and new proposal. *European Actuarial Journal, 15*, 15-43. doi.org/10.1007/s13385-024-00403-6

- Houben, J.J., Carpentier, Y., Paulissen, G., Van Snick, G. and Soetewey, A. (2023). Impact of a Food Rebalancing Program Associated with Plant-Derived Food Supplements on the Biometric, Behavioral, and Biological Parameters of Obese Subjects. *Nutrients, 15*(22):4780. doi.org/10.3390/nu15224780

- Truong, H.C., Van Phan, T., Nguyen, H.T., Truong, K.H., Do, V.C., Pham, N.N.M., Ho, T.V., Phan, T.T.Q., Hoang, T.A., Soetewey, A., Ho, T.N.L., Pham, Q.D., Luong, Q.C., Vo, D.T.T., Nguyen, T.V. and Speybroeck, N. (2023). Childhood Bacterial Meningitis Surveillance in Southern Vietnam: Trends and Vaccination Implications from 2012 to 2021. *Open Forum Infectious Diseases* (p. ofad229). Oxford University Press. doi.org/10.1093/ofid/ofad229

- Soetewey, A., Legrand, C., Denuit, M. and Silversmit, G. (2022). Semi-Markov modeling for cancer insurance. *European Actuarial Journal, 12*, 813-837. doi.org/10.1007/s13385-022-00308-2

- Soetewey, A., Legrand, C., Denuit, M. and Silversmit, G. (2021). Waiting period from diagnosis for mortgage insurance issued to cancer survivors. *European Actuarial Journal, 11*, 135-160. doi.org/10.1007/s13385-020-00254-x

PhD thesis

Soetewey, A. (2024). Waiting period from diagnosis for mortgage insurance issued to cancer survivors. *UCLouvain*, supervisors: Prof. Catherine Legrand & Prof. Michel Denuit. hdl.handle.net/2078.1/291928

See all talks and posters at antoinesoetewey.com/research

Teaching

Visiting lecturer

2024 – Present	Multivariate statistical analysis (UCLouvain, LINGE1222)
2024 – Present	Statistics (UNamur, ECGEB152)
2023 – 2024	Advanced quantitative methods (UNamur, EINGM105)

Teaching assistant (UCLouvain)

2023 – 2024	Data exploration and introduction to statistical inference (LMAFY1101)
2022 – 2024	Statistics and data sciences with R: Advanced programming (LDATS2030)
2022 – 2024	Economics and management statistics II (LECGE1224)
2022 – 2024	Analysis of survival and duration data (LSTAT2220)
2021 – 2024	Biostatistics and information's critical analysis (LVETE1262)
2017 – 2024	Statistical processing of data (WFARM1247)
2021 – 2022	Econometrics (LINGE1221)
2020 – 2021	Statistics and data sciences (LEPL1109)
2018 – 2019	Data analysis (LSTAT2110)
2019 – 2023	Discrete data analysis (LSTAT2100)
2017 – 2023	Statistics (LESPO2102)
2017 – 2021	Multivariate statistical analysis (LINGE1222)
2017 – 2020	Probability and statistics (LFSAB1105)
2017 – 2018	Further statistics (LINGE1214)

University certificates (UCLouvain)

2023	Introduction to LaTeX
2021 – 2023	Introduction to data analysis with R
2018 – 2021	Junior data analyst
2019 – 2020	Practice of statistics with R