Curriculum Vitae (CV)

Negera Wakgari Deresa

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Contact details

Name:	Deresa
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Education

1. Ph.D. in Statistics and Operations research, KU Leuven, 9 December 2020, advisor: Prof. Dr. Ingrid Van Keilegom

    - PhD thesis title: Flexible modeling and statistical inference for survival data subject to dependent censoring

2. Master of science in Biostatistics, Hasselt University, 2015

    - Basic courses taken: Concepts of Bayesian inference, Bayesian data analysis, Multivariate data analysis, Analysis of Variance, Statistical software (SAS and R), longitudinal data analysis, Survival data analysis, Computer programming (in Python), Advanced modelling techniques, medical Biology, etc.
    - Master thesis topic: Prediction of visual field summary parameters. A Bayesian hierarchical mixed effects model was used in the thesis.

3. Master of science in Statistics, Addis Ababa University, Ethiopia, 2013

4. Bachelor of science in Statistics, Gondar University, Ethiopia, 2009

Experience

1. From 1 September 2022 until 29 February 2024: Statistical consultant at Hasselt University.

2. From 1 January 2021 until 31 August 2022: Postdoctoral researcher at KU Leuven.

3. From 15 January 2017 until 14 January 2020: Ph.D student at KU Leuven, Department of Operations research and Statistics

4. From 1 October 2015 until 14 January 2017: Lecturer in Statistics at Wollega University, Ethiopia

5. From 1 November 2009 until 31 August 2011: Assistant Lecturer at Dire Dawa University, Ethiopia

Publications

1. Deresa, N. W. and Van Keilegom, I. (2020a). Flexible parametric model for survival data subject to dependent censoring, *Biometrical Journal*, **62**: 136–156.

2. Deresa, N. W. and Van Keilegom, I. (2020b). A multivariate normal regression model for survival data subject to different types of dependent censoring, *Computational Statistics and Data Analysis,* **144**: 106879.

3. Deresa, N. and Van Keilegom, I (2021). On semiparametric modelling, estimation and inference for survival data subject to dependent censoring, *Biometrika*, **108**, 965–979.

4. Deresa, N. W., Van Keilegom, I. and Antonio, K. (2022). Copula-based inference for bivariate survival data with left truncation and dependent censoring, *Insurance: Mathematics and Economics*, **107**: 1–21.

5. Deresa, N. W. and Van Keilegom, I. (2023). Copula based Cox proportional hazards models for dependent censoring, *Journal of the American Statistical Association (to appear).*

6. Makariadou, E., Wang, X. , Nicholas, H., Deresa, N. W., Mutambanengwe, K., Verbist, B. and Thas, O. (2024). Synergy detection: a practical guide to statistical assessment of potential drug combinations, *Pharmaceutical Statistics (to appear).*

7. Deresa, N. W. and Van Keilegom, I. (2024). Semiparametric transformation models for survival data with dependent censoring, *submitted.*

8. Deresa, N. W. (2024). Variable selection for copula based dependent censoring, *in preparation.*

Presentations

8. CMStatistics conference 2021, 18-20 December 2021, Hybrid Conference: 'Copula based Cox proportional hazards models for dependent censoring', *invited* presentation.

7. 28th Annual meeting of the Royal Statistical Society of Belgium, 21-22 October 2021, Liege, Belgium: 'Copula based Cox proportional hazards models for dependent censoring', contributed *oral* presentation.

6. 22nd European Young Statisticians Meetings 2021, 6-10 September, Athens, Greece, Virtual meeting: 'On semiparametric modelling, estimation and inference for survival data subject to dependent censoring', *invited* presentation.

5. CMStatistics conference 2020, 19-21 December 2020, Virtual Conference : 'On semiparametric modelling, estimation and inference for survival data subject to dependent censoring', contributed *oral* presentation.

4. 32th European Meeting of Statisticians (EMS) – July 22nd-26th 2019, Palermo, Italy: 'Bivariate parametric model for survival data subject to dependent censoring', contributed *oral* presentation

3. 40th Annual Conference of the International Society for Clinical Biostatistics, 14-18 July 2019, Leuven, Belgium: 'On semiparametric modelling, estimation and inference for survival data subject to dependent censoring', *poster* presentation.

2. 29th International Biometric Conference, Barcelona International Convention Centre, Barcelona, Spain, 8-13 July 2018: 'Flexible parametric model for survival data subject to dependent censoring', contributed *oral* presentation.

1. Three-day ATMS Workshop, Multi- and high-dimensional statistics - Copulas - Survival analysis - Model selection, Leuven, 22-24 August, 2018: 'Flexible parametric model for survival data subject to dependent censoring', *oral* presentation

Seminars

2. Research group of Operations research and statistics, KU Leuven, 4 May 2020 : 'On semiparmatric modelling, estimation and inference for survival data subject to dependent censoring'.

1. Research group of Operations research and statistics, KU Leuven, 3 December 2019 : 'Flexible parametric model for survival data subject to dependent censoring'.

Teachings

(limited to the period 2015)

Bachelor level

- Introduction to Statistics
- Introduction to probability theory
- Introduction to Biostatistics for pharmacy
- Statistical Inference
- Introduction to Multivariate Methods

Master level

- Research methods and Biostatistics course for Biologists at Wollega University (year 2016)
- Teaching assistant for Statistical Modelling course at KU Leuven (year 2022)

Short Courses

Flames @ KU Leuven, 13 March 2018 : Short course on 'Survival analysis and cure models' (prepared practical exercises in R)

Master thesis supervision

I co-supervised three master thesis at KU Leuven:

1. Yanxia Zhang, 2019
2. Mahnoor Shahid, 2020
3. Pauline Séverine M. Van Camberg, 2022

Master thesis supervision at Uhasselt:

1. Axelle Kuppens, 2023

Awards

Vlir-uos scholarship for two years, 2013–2015

KU Leuven postdoctoral scholarship, 2021-2022

Skills

- Experienced R programmer including experience with software development in R
- Proficiency in SAS, Python and Latex.
- Statistical methods development
- Writing and executing clinical study design
- Proficiency with several statistical and machine learning models

Software

SemiPar.depCens: R package for 'Copula based Cox proportional hazards model with dependent censoring'. It can be installed from the CRAN following this link.