

Johan Lyrvall

Curriculum vitae, December 18, 2023

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ORCID: 0000-0002-1863-8147

Statistical software skills: R, Python, Stata

Academic positions and affiliations

- 11/21-present **PhD in Economics, Management and Decision Making**
University of Catania, Department of Economics and Business, Italy
Supervisors: Prof. F. Drago, Prof. R. Di Mari
Latent variable modeling
- 09/23-08/25 **Research team member, European Research Council project**
“Participation and Representation in the Digital Age”, ERC ID 101077659
Principal investigator: Prof. J. Oser
Multilevel latent class modeling & analysis, simulation studies (R)
- 08/23-02/24 **Visiting PhD researcher**
Leiden University, Methodology & Statistics Unit, Netherlands
Supervisor: Prof. Z. Bakk
Multilevel latent class modeling & analysis, simulation studies (R)
- 10/20-06/21 **Research assistant**
KU Leuven, Industrial Organisation Research Group, Belgium
Investigator: Prof. J. De Loecker
IV regression, data visualization, data collection (Stata)
- 06/20-08/20 **Research assistant**
KU Leuven, Labour Economics Research Group, Belgium
Investigator: Prof. E. Piscato
OLS regression, data visualization, data collection (Stata)

Education

- 2019-2020 **MSc in Economics**
KU Leuven, Belgium
Supervisor: Prof. J. De Loecker
Thesis: demand estimation for contemporaneous art, nested logit model (Stata)
- 2016-2019 **BSc in Economics**
Lund University, Sweden
Supervisor: Prof. H.J. Holm
Thesis: theoretical analysis of museum demand under different pricing policies

Industry experience

- 02/21-09/21 **Data analyst**
Cartel Damage Claims, Belgium
Technical tasks: web scraping, API-based data collection, data management, data visualization (Python)
Qualitative tasks: survey design, data summary

Working papers

- Lyrvall, J., Di Mari, R., Bakk, Z., Oser, J., & Kuha, J. (2023). *multilevLCA: An R Package for Single-Level and Multilevel Latent Class Analysis with Covariates*. *arXiv preprint arXiv:2305.07276*.

Software development

R packages

- Di Mari, R. & Lyrvall, J. (2023). *multilevLCA: Estimates and Plots Single-Level and Multilevel Latent Class Models*. <https://cran.r-project.org/web/packages/multilevLCA/index.html>

Presentations

Conferences - invited sessions

- Lyrvall J., Di Mari R., Bakk Z., Oser J. & Kuha J. 12 September 2023. An R package for multilevel latent class analysis with covariates. Presented at the Classification and Data Analysis Group (CLADAG) conference of the Italian Statistical Society, Salerno, Italy.

Conferences - contributed sessions

- Lyrvall J., Di Mari R., Bakk Z., Oser J. & Kuha J. 18 December 2023. multilevLCA: An R package for single-level and multilevel latent class analysis with covariates. Presented at the Computational and Methodological Statistics (CMStatistics) conference of the European Research Consortium for Informatics and Mathematics, Berlin, Germany.

Seminars

- An R package for multilevel latent class analysis with covariates. Presented at the Methodology & Statistics Unit of Leiden University, Leiden, Netherlands, 23 November 2023.
- The impact of classification error underestimation in bias-adjusted three-step latent class modeling. Presented at the Methodology & Statistics Unit of Leiden University, Leiden, Netherlands, 20 November 2023.
- Latent class analysis with complex data: methodology and software solutions. Presented at the Clinical Epidemiology Department of Leiden University Medical Center, Leiden, Netherlands, 14 November 2023.

Teaching activities

Guest lecturer

- Workshop in latent class analysis for the course Latent Variable Models in the MSc program Methodology and Statistics in Psychology, Leiden University, 6 December 2023.
- Workshop in latent class analysis for the course Psychometrics and Structural Equation Modeling in the MSc program Statistics and Data Science, Leiden University, 29 September 2023.

Refereeing activities

- Behavior Research Methods

Membership in professional societies

- Italian Statistical Society