

S E M I N A R



Dr Johané Nienkemper-Swanepoel (Stellenbosch University)

Date:
Friday, 13 February 2026

Time:
13h10-14h10 SAST

- Venues:**
- Room 2048
Van der Sterr Building,
cnr Victoria & Bosman Streets
Stellenbosch
 - Online

WHO SHOULD ATTEND?
All are welcome.

ENQUIRIES:
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GPABin: an R package for unified visualisations of imputed data sets

ABSTRACT:

The focus of the discussion will be on the functionalities of the **R** package, **GPABin**, that was published on the Comprehensive R Archive Network (CRAN) in 2025.

This package combines three core methodologies: multiple imputation, dimension reduction and biplot visualisation. Data imputation is the process of replacing missing values with plausible alternatives and biplots are generalised scatterplots which enable simultaneous visualisation of multiple variables. In this version of the **GPABin** package, visualisations of multiple imputations from multivariate categorical data sets are unified into a single biplot display. The seminar will guide you through the pipeline of analysis steps available in the package which includes multiple imputation, dimension reduction and visualisation. Simulated examples from multivariate categorical data will be shown to allow for the comparison of complete and completed data visualisations.

To conclude, some tips and resources will be shared for R package development.

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