



Programa Universitario de Estudios del Desarrollo

UNAM

Empirical scrutiny of reliability and validity

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Outline

- Quick introduction to R-software and Rstudio
 - Power point presentation
 - Live session
 - Handbook with notes
- Estimation of reliability in R
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 - Power point presentation
 - Live session
 - Handbook with notes

Quick introduction to R-software and Rstudio

- Why are we using R and Rstudio?
 - R is a programming language made by statisticians for statisticians
 - has cutting-edge methods, it's almost everything you need.
 - Rstudio is just a more friendly and powerful interface of R
 - Both are free, widely used,
 - For reliability has the best estimators available and can be used joinly with more powerful programmes like Mplus for latent variable modelling

R-software

- It started in the early 1990s as an open-source implementation of S-plus language
- It is still free and is one of the main platforms for operationalising the most recent developments in statistics
- Yes but R is difficult, it has a very steep learning curve!
- R works with objects and this is one of the main challenges from people migrating from point-and-click programmes
- But... working with objects is one of its main advantages
- R is much more than a software, it's a movement towards open code, free use and scientific replication.

R-software: Objects

A data set is an object made of other objects:

• Columns and rows

Each column is an object made of other objects:

• Characters -string or numeric-

But the output of a model can be an object

The contents (e.g. the coeficients) are an object too

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6	111	Afghanistan	1	29721	2015	.211176	27.70999908	18.79999924	.7020000219	701	100.8000031	Afghanistan
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Wouldn't be great if we could manipulate all these objects and do whaterver we want?

R-software: Objects

- Calculate the same table across objects -Different rounds of a survey-
- Run the same model across different rounds of a survey
- Extrat what I need for my documents, etc.
- Reproduce all -data cleaning, data processing, outputs, written document- in one place

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R-software: Languaje

• Everything you do has at least one object as target



Estimation of reliability in R

• Steps:

- Identify the underlying measurement model
- Make the model explicit
- Write the model for computation
- Estimate the model
- Assess the model
- Estimate reliability

Reliability: Potential problems

- The model is not clear, research is at preliminary stages, I only want to explore potential solutions!
- Exploratory methods:
 - Alpha, beta and omega from an Exploratory Factor Analyses are alternatives
 - The relevant library is "psych" -I'll share a note-
 - Eventually this will help you to calibrate a better measurement model but it won't define it -theory defines the model-

Reliability: Potential problems (2)

- The measurement model does not work at all
 - Always fit a null -unidimensional model-
 - Compare the model with the null
 - Be careful, confirmatory models cannot be used in an exploratory fashion
 - Some minor deviations are acceptable, but all should be based on the theoretical measurement framework
 - You need new data to put under scrutiny an improved model

Estimation of validity

- Criterion validity
 - Find a proper validator -theory and data-
 - Use several but sensible specifications
- Latent construct validity
 - Specify the model and assess it
- Criterion + latent construct
 - Find a proper validator and embed the criterion validation into a SEM model

Potential computational problems

- Computation with categorical variables is difficult and complex
- We have much better algorithms and computational power but sometimes we demand a lot
- Maximum likelihood is one of the most robust estimation methods but not always is feasible for categorical data
- Categorical data + complex model: WLSMV estimator (lavaan and Mplus) or MCMC -Bayes-.

Software alternatives

- SPSS+AMOS:
 - CFA -continuous and categorical- reliability estimation -including omegarequires and extra package
 - Alfa, Gutman variants as well
 - IRT. Requires installing an extension
- Stata
 - CFA -continuous and categorical- no reliability estimation. Stata+R
 - Alfa
 - IRT models
- Mplus

• When combined with R is the best option we have... by far!

A workflow for empirical scrutiny in poverty measurement:

- Assess both global and item reliability
- Assess validity -different aspects of it-
- Look for consistencies and inconsistencies in both analyses
- Rely on theory to make decisions about the assumptions that do not hold given the empirical analyses
 - If a dimension seems a sound construct but its poorly measured, it is not a problem of *content validity* but with some assumptions within the measurement model, i.e. water deprivation is important but perhaps the threshold you have leads a poor split.
 - Ammend –if possible- and/or drop indicators that add random and systematic error
- Produce deprivation scores, assess the poverty line and the rest of your assumptions.