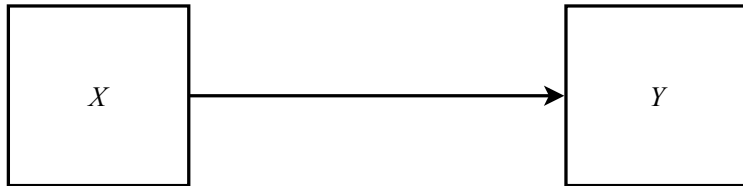


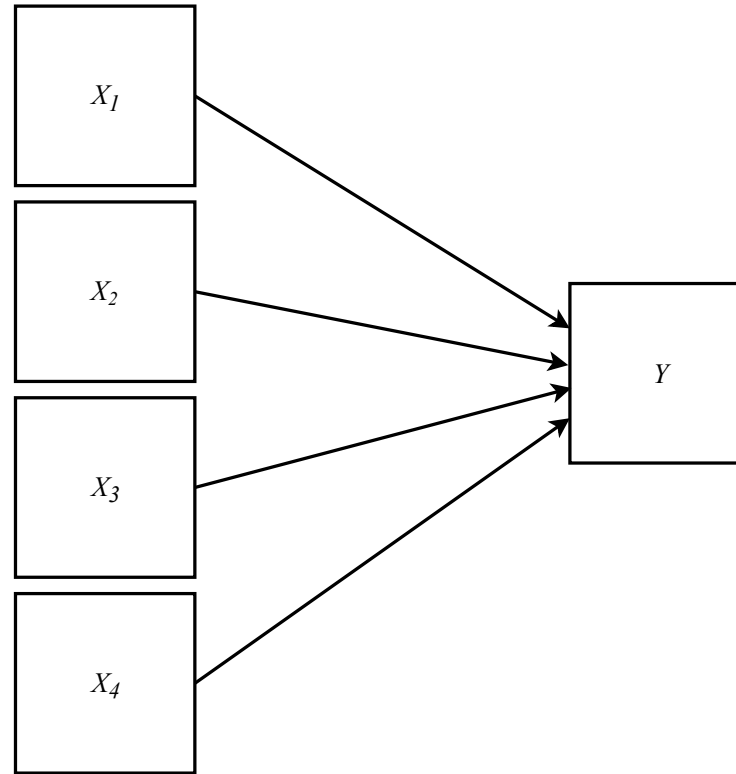
Making a case for MplusAutomation

*An attempt to convince you that this is a good idea

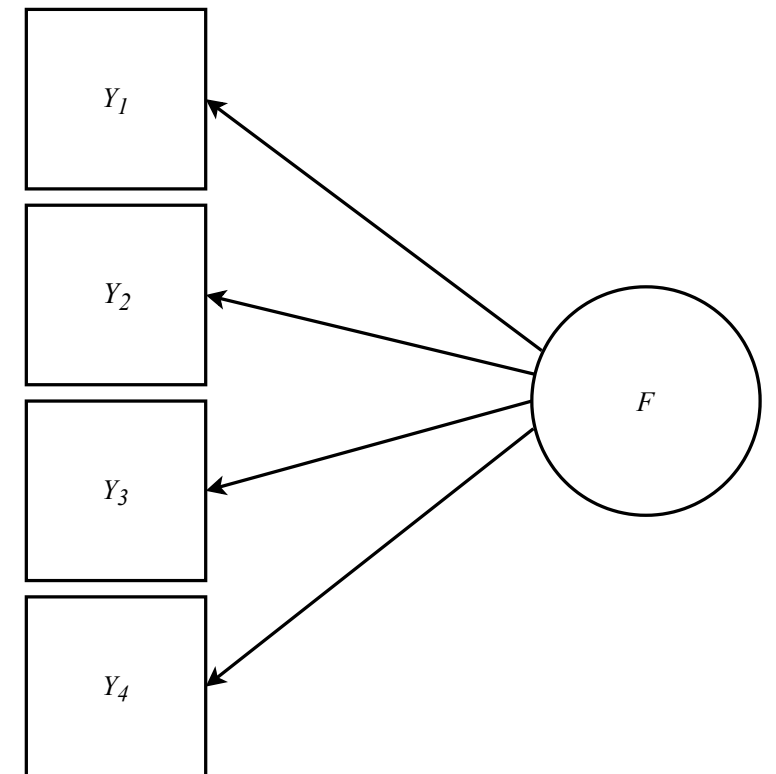
simple regression

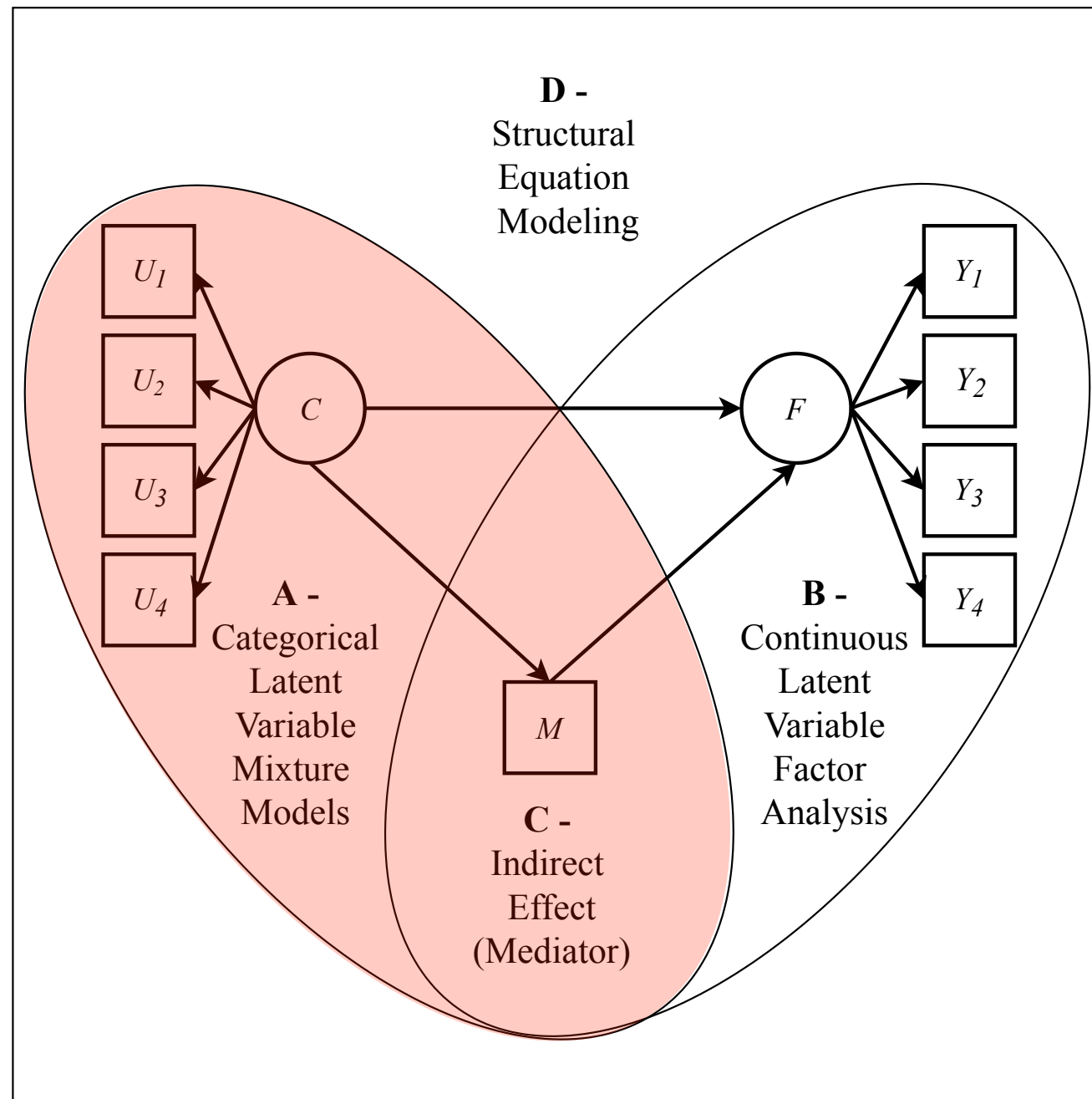


multiple regression



factor analysis





Factor Analysis
Multi-level modeling
Latent Class Analysis
Indirect Effects

Bernoulli
Multinomial
Poisson
Negative Binomial

Structural Equation Modeling

Generalized Linear Modeling

Multiple Regression

Simple Linear
Regression

Highly
flexible or
"General"

What is MplusAutomation? ... and why are we using it?

WHAT?

- MplusAutomation is a package within R
- It “wraps around” the Mplus program
- Requires both R & Mplus software
- Requires learning some basics of 2 programming languages
- Car metaphor: R is the *steering wheel* or *dashboard* & Mplus is the *engine*

WHY?

- Combines the **full** flexibility of SEM modeling provided by Mplus with the reproducibility and streamlined interface of R/Rstudio

HOW?

- In lab, I will interface entirely within R-Studio
- All code (in both languages) expected in class will be provided in lab
- You are not expected to have general fluency in either language
- We will be using a very specific (small) set of R functions
- In lab, I will not be opening ... ~~SPSS~~

MplusAutomation: An R Package for Facilitating Large-Scale Latent Variable Analyses in *Mplus*

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MplusAutomation Map

