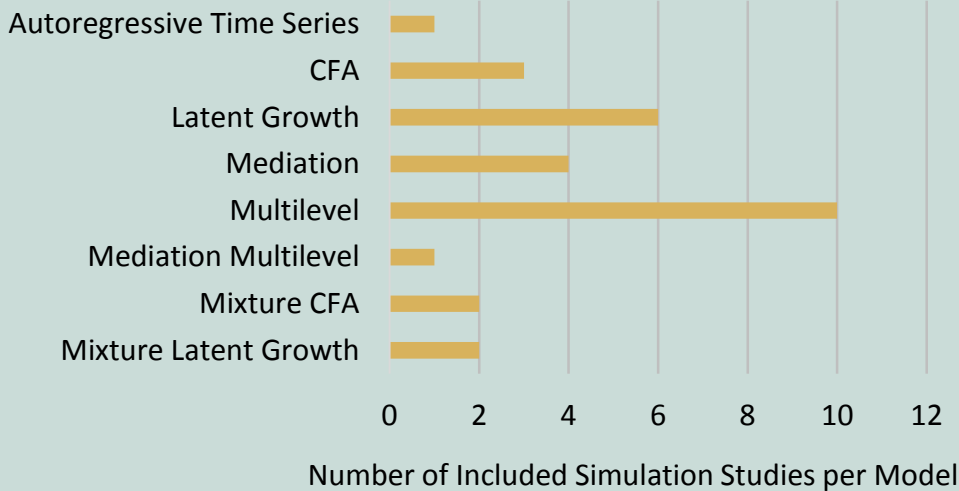




## Models of the Included Simulation Studies



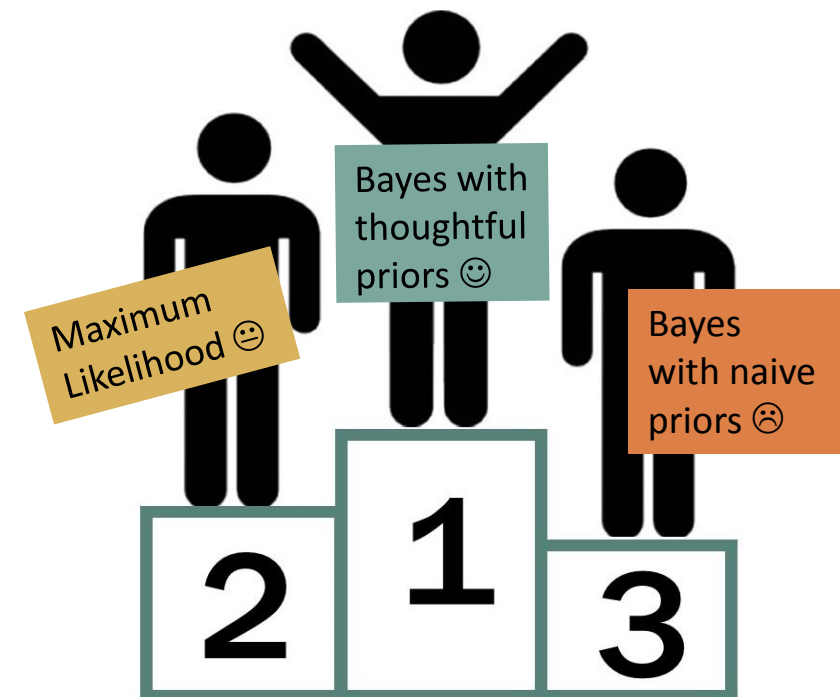
Is it valid to use Bayesian instead of Maximum Likelihood estimation for SEM when the sample size is small?

### Inclusion Criteria

- Simulation study
- Bayesian parameter estimation vs Maximum Likelihood
- Small sample sizes
- Structural Equation Models

## Multilevel Models – Sample Sizes in Simulation

Studies	Number of clusters	Cluster size
Baldwin & Fellingham, 2013	8, 16	5, 15
Browne & Draper, 2000	12, 48	(un)balanced, mean = 18
Browne & Draper, 2006	6, 12, 24, 48	(un)balanced, mean = 18
Depaoli & Clifton, 2015	40, 50, 100, 200	5, 10, 20
Farrell & Ludwig, 2008	(i) 20; (ii) 5; (iii) 80	(i) 20, 80, 500; (ii) 500; (iii) 20
Hox, van de Schoot & Matthijsse, 2012	10, 15, 20	1755
McNeish, 2016	8, 10, 14	7-14
McNeish & Stapleton, 2016	4, 8, 10, 14	7-14, 17-34
Stegmueller, 2013	5, 10, 15, 20, 25, 30	500
Tsai & Hsiao, 2008	15	6



3 types of priors: thoughtful, naive, data dependent priors