Song 5

Song 4

Song 3

Song 1

Song 6

Song 7

…

…

**Basic CFA Terminology**

* **Factors – circles labeled F1, F2. Factors are thought to influence questions, so the direction of the arrows points toward the questions.**
* **The arrow between factors indicates a correlation between factors.**
* **The square boxes indicate measured items on the SONG scale.**
* **The E circles are error variance for each question on the scale.**

**Measurement Invariance Testing Procedure (Brown, 2006)**

1. **Test the CFA model with all participants with no groups.**
2. **Test the CFA model *separately* with each group. For example, we ran the above model for *only* Females, Males, Caucasians and Others Ethnicities.**
3. **Equal Form/Configural – Test the CFA model as a multigroup model. All participants are tested as a nested model, so that both females and males are grouped in the same model.**
4. **Metric Invariance – Test the nested CFA model for equal factor loadings, constrained across groups. The blue arrow lines denote these loadings.**
5. **Scalar Invariance – Test the nested CFA model for equal item intercepts, constrained across groups. The red arrows indicate intercepts.**
6. **Strict Factorial Invariance – Test the nested CFA model for equal error variance loadings, constrained across groups. The green arrows indicate error variance.**
7. **Partial invariance can be found at any step that significantly degrades model fit (usually tested with a >.01 increase in CFI). Partial invariance involves relaxes constraints to find large influences on model fit.**