**Translational Abstract**

There is a class of models frequently used by researchers called “Latent Variable Models,” or LVMs. These models are extremely flexible and useful, especially when one is trying to assess a characteristic that is “unobserved,” like intelligence or depression. However, historically, there have not been intuitive methods for evaluating how well these models fit the data. This paper introduces a software application called “flexplavaan,” which makes it easy to visualize the fits of these models. Flexplavaan makes it easy to identify sources of misfit and to evaluate the model’s assumptions.