**Path Analysis Code (Lavaan Package)**

Please note that the variables were standardized prior to entering into Lavaan (see data sheet for standardized values).

**Variable names:**

* **Log.SA.St** – Log(anemone surface area) standardized
* **Log.Depth.St** – Log(depth) standardized
* **Log.Dist.St** – Log(distance) standardized
* **Group.Size.St** – Group size standardized
* **Idv.1.St** – Idv 1 TL standardized
* **Idv.2.St** – Idv 2 TL standardized
* **SAGL.St** - Subadult summed TL standardized

**Code:**

*>* library(lavaan)

> Chausson\_et\_al\_Data <- read.csv("~/Documents/Chausson\_et\_al\_Data.csv")

> View(Chausson\_et\_al\_Data)

> Model.Apercula <- '

Log.SA.St ~ Log.Depth.St + Log.Dist.St

Idv.1.St ~ Log.SA.St

Idv.2.St ~ Idv.1.St + Log.SA.St

SAGL.St ~ Idv.1.St + Idv.2.St

Group.Size.St ~ Idv.2.St'

> fit <- sem (Model.Apercula, data = Chausson\_et\_al\_Data)

> summary(fit, fit.measures = TRUE)

> model.est <- sem (Model.Apercula, data = Chausson\_et\_al\_Data)

> parameterEstimates(model.est)

> summary(model.est, standardized = TRUE, rsq = TRUE)