

**Lab 09**  
**Evolutionary Psychology**  
**Assigned – now**  
**Due – TBD**

**Morphometric Analysis of Facial Shape and Its Relationship to Perceived Personality Traits**

Using the images, their digitized landmark coordinates, and the tps programs determine the following. Use the images you digitized – males digitized females, females digitized males, as a suggestion.  
33 1/3 points each

- 1) Overall Variation – use the tpsRelw program to summarize and visualize variation in the facial shape as recorded by your landmarks. Include a plot of the first two relative warps (=principal components) and graphic representations of face shape at extreme ends of these axes. Interpret the shapes as appropriate.
- 2) Face Shape v. Trust – use the tpsRegre program to test for a linear relationship between facial shape and average trustworthiness score. Is there a statistically significant relationship? What does a face look like with low/high trust scores?
- 3) Face Shape v. Leadership – use the tpsRegre program to test for a linear relationship between facial shape and average leadership score. Is there a statistically significant relationship? What does a face look like with low/high leadership scores?