So what to do?

- In this example, all three analyses told basically the same story there is an effect in our interaction term. They differ in terms of the value of the t-statistic associated with testing this.
- It's an issue but if each possible way of analysing the data (incl. log transform and GLMM under the Gamma distribution) produces the same story, probably don't need to worry too much.
- Key is to be transparent in the write-up (did you transform the data? If so, how? What distribution do you assume your data come from?). Most importantly, publicly archive your data and analysis code so it can be examined by others.

Determining the likely distribution of our data

- We can use the function descdist from the package fitdistrplus to plot any set of data on a Cullen and Frey graph - this will help us determine what known distribution of data our data match.
- First, I'm going to create some data drawn from the normal distribution and plot that sample...