

Moderation in R

Research Methods for Applied Psychologists

Dataset for this exercise is modData.csv

Research Scenario

It has been suggested that the relationship between depression and neuroticism could be moderated by state anxiety. To test this hypothesis, we will run a moderation analysis.

Variables: x = Time in counselling

m = rapport level

y = General Wellbeing

1. Install and load the *gvlma*, *rockChalk* and **car** packages
2. Mean centre the **X** and **M** variables. Store the results as **Xc** and **Mc** and use these for future analysis
3. Run the moderation model and save it as **mod1**
4. Use the function *gvlma* to check the assumptions of the moderation model
5. Use the *plotSlopes* function to view the simple slopes of the moderation model. When you run this command, store the result as **slopes1**
6. Run the function *testSlopes* on your *slopes* variable and store the result as **testSlopes1**
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7. Run the plot command on **testSlopes1** to see where the moderation model becomes significant.
8. Bootstrap the moderation model and check the difference in confidence intervals