

## INTE1129 – Biometrics Lab Instructions

1. Go to <https://www.neurotechnology.com/download.html#demo> and download the demo application for your device OS (Windows/Mac/Linux)
2. Download the sample fingerprint and iris databases provided on the neurotechnology website - <https://www.neurotechnology.com/download.html#databases>
3. If you have a macOS you will need to run the following commands in Terminal before the apps can open. In */path/to/application.app* ensure that there are no white spaces in the file path.  
xattr -cr /path/to/ FingersAlgorithmDemo.app  
xattr -cr /path/to/ IrisesAlgorithmDemo.app  
xattr -cr /path/to/ FacesAlgorithmDemo.app
4. Open the FingersAlgorithmDemo by double clicking on it.
5. In the application interface go to Tools->Clear Database to clear any previously stored images.
6. Now download the R worksheet package **INTE1129Assessment1B\_0.1.0.tar.gz** from the assignment page and store it on your local drive.
7. Open R Studio and in the RStudio application, go to Tools -> Install Packages. In the “Install From” drop down list, choose Package Archive File. Then browse to where you have stored the **INTE1129Assessment1B\_0.1.0.tar.gz** file.
8. Once the package has been installed, type in **learnr::run\_tutorial(“INTE1129 Assessment1B”, package = “INTE1129Assessment1B”)** and press enter. The assignment will open as a html file.
9. Complete the assignment using the instructions in the worksheet.
10. Upload the answers to the assignment as a.pdf by the deadline specified on the assignment page on Canvas.
  - a. The assignment has 3 questions. Each question will open on a new page of the worksheet.
  - b. Once you complete a question, save that page as a .pdf file in landscape mode. Name that file as follows:  
Group<GroupNumber>\_Question<QuestionNumber>.pdf  
For example if the student group is Group 1 they will submit 3 files:
    - i. Group1\_Question1.pdf
    - ii. Group1\_Question2.pdf
    - iii. Group1\_Question3.pdf
  - c. If parts of your code are not completely visible on your pdf, type your code into a word document and upload that along with the 3 pdfs.