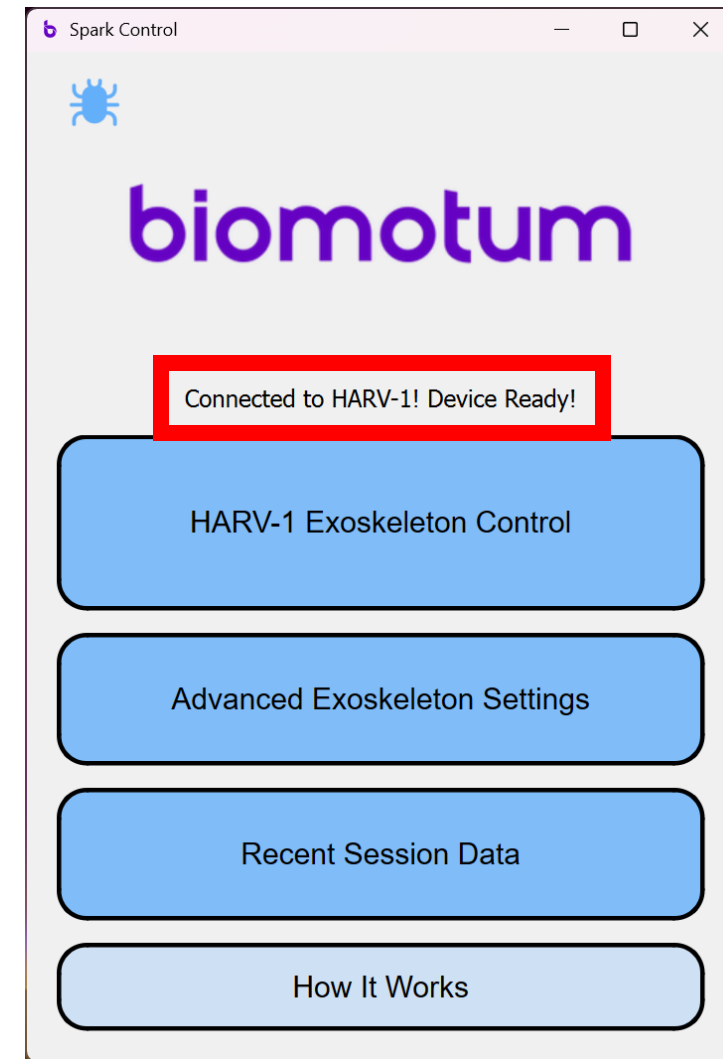
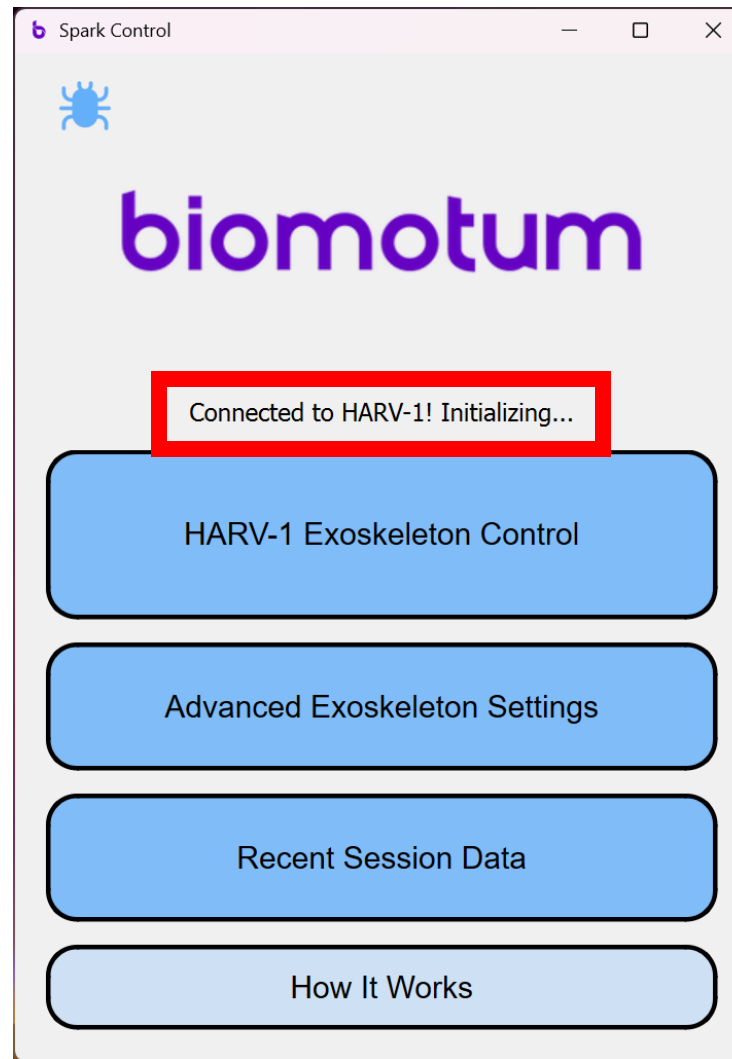
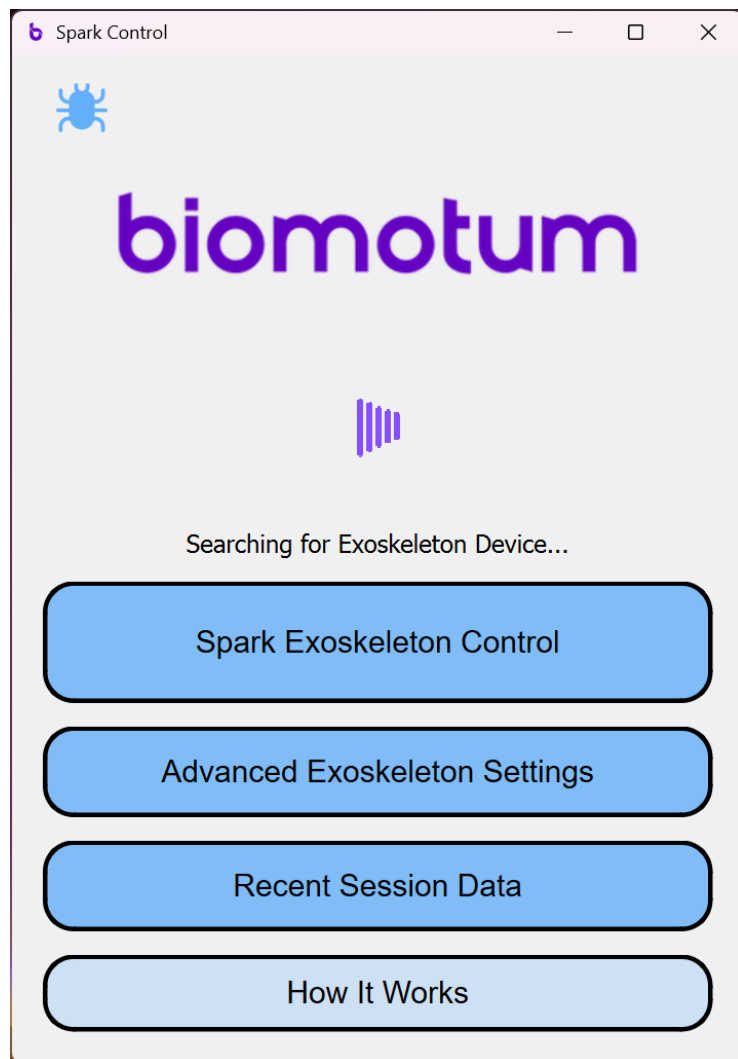


# Setting up and using the Biomotum Spark

Anway Pimpalkar

Connect to the Biomotum Spark

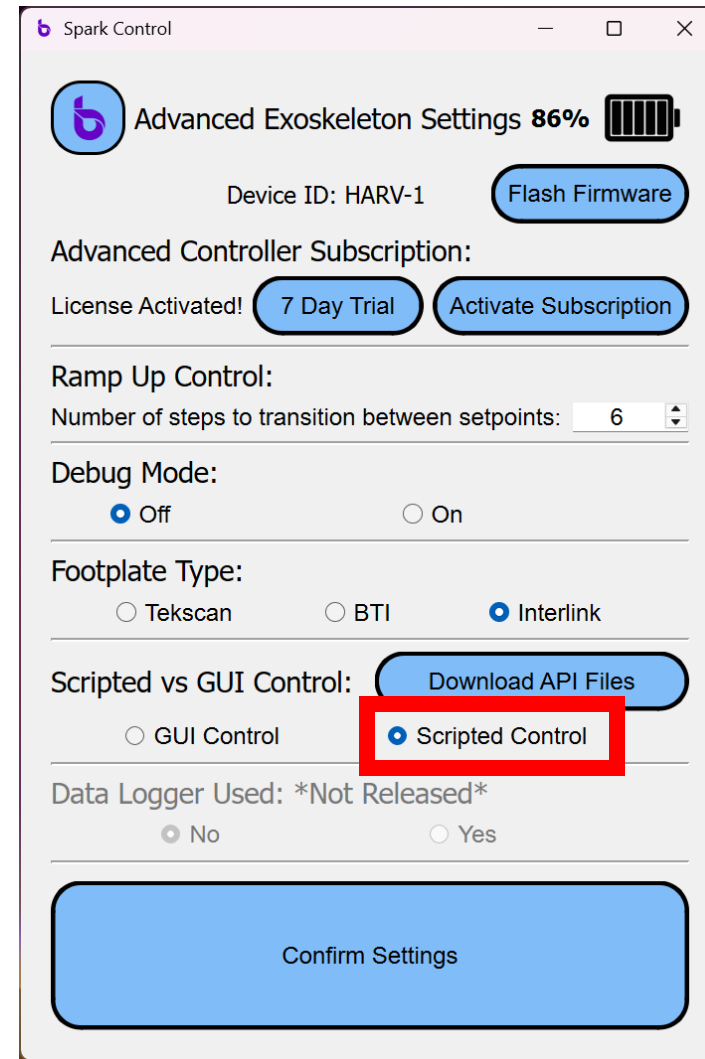
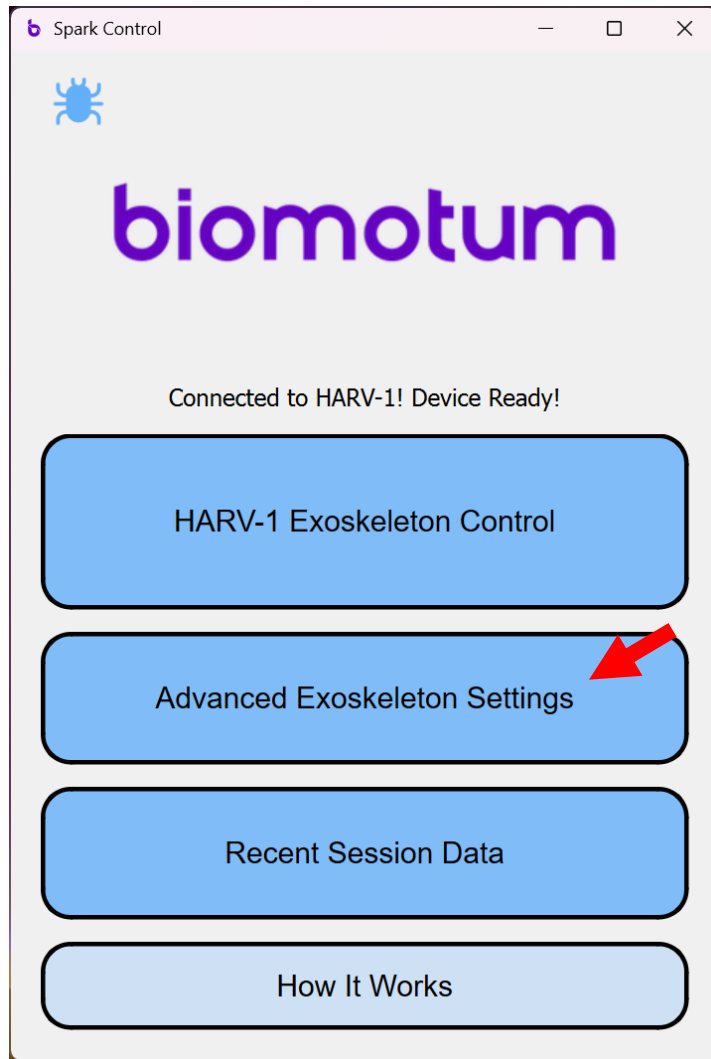
# Connect to the Biomotum Spark



Power on the Spark waist unit  
Turn on Bluetooth on the host

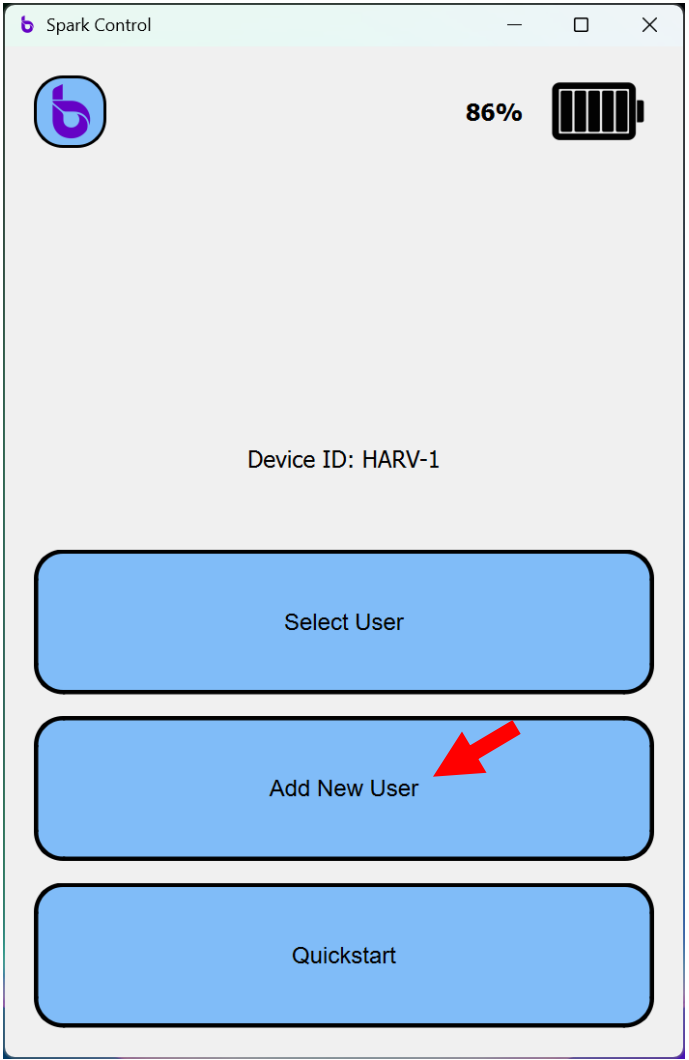
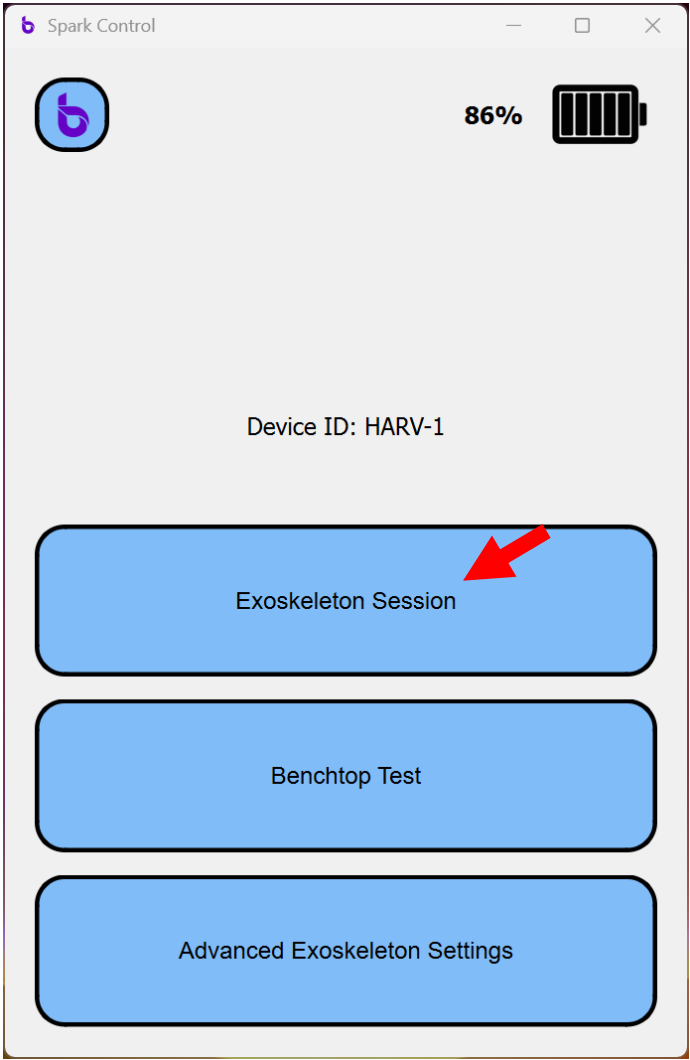
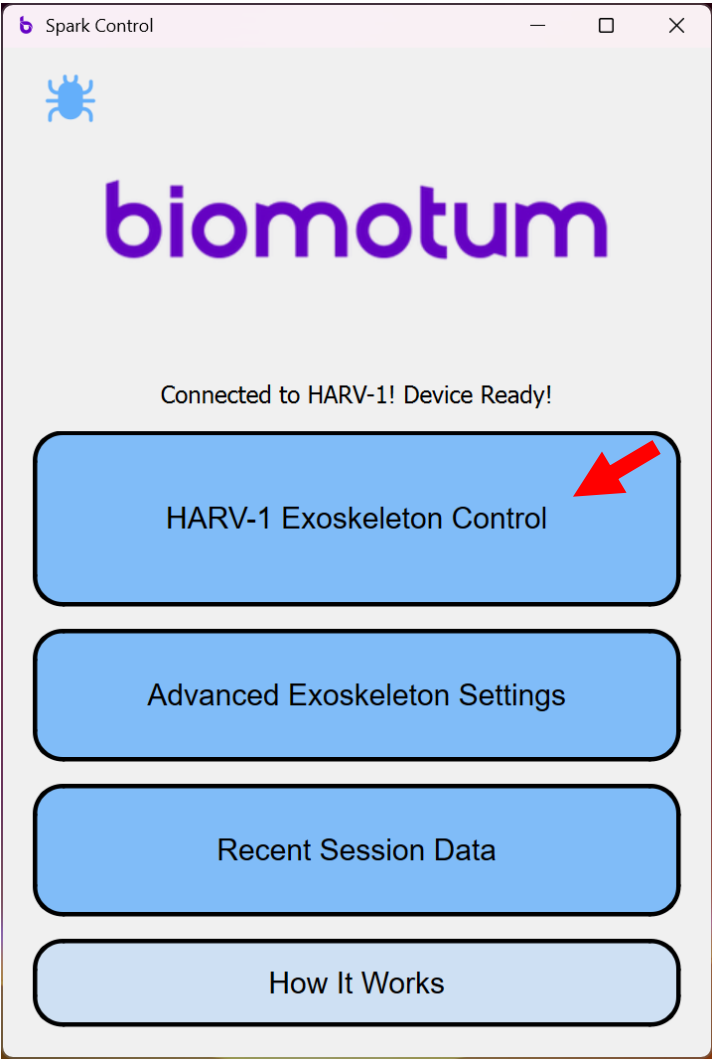
Enable Scripting Control

# Enable “Scripting Control” to use the Python API




Add a new user


# Add a new user (1 of 2)



# Add a new user (2 of 2)

Spark Control



86% 

100%

Last Name:

First Name:

Diagnosis:

Date of Birth:

Select Date of Birth

Weight:

☐ lbs

☐ kg

0

Height:

Feet:

0


Inches:

0

Additional Notes:

Create New User

Spark Control

85% 

Anway, Pimpalkar

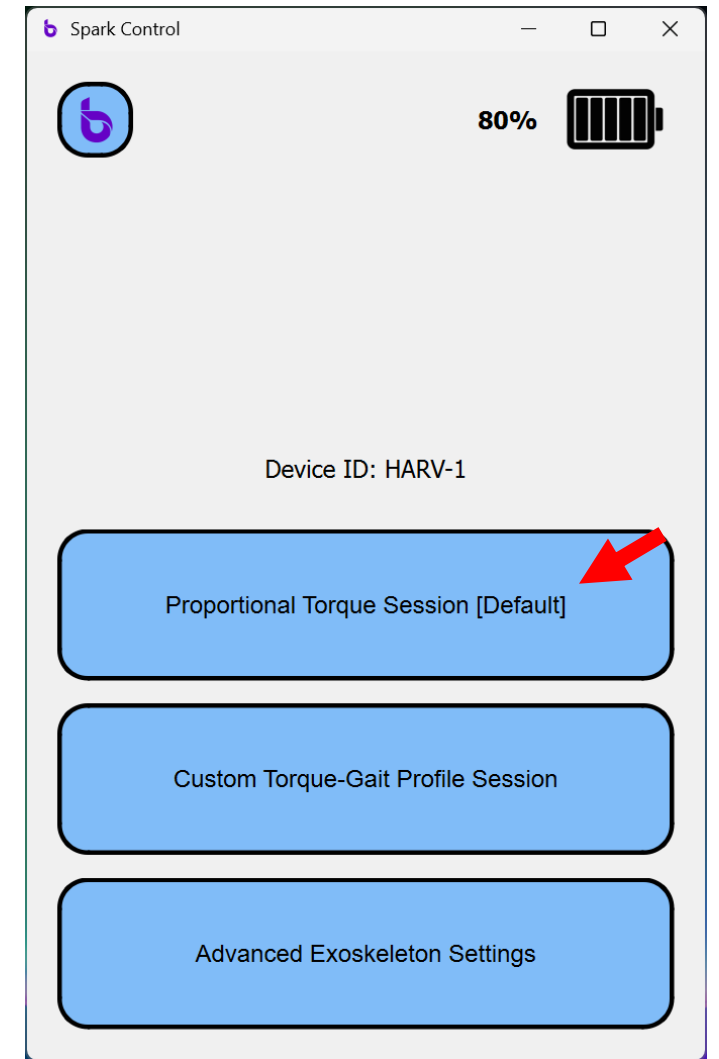
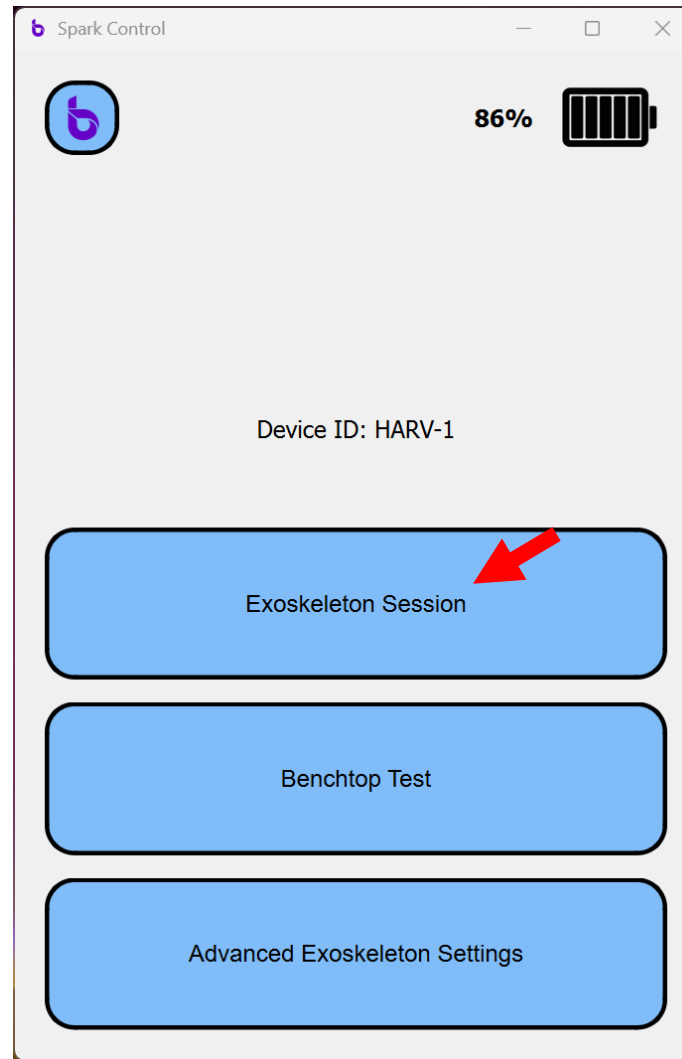
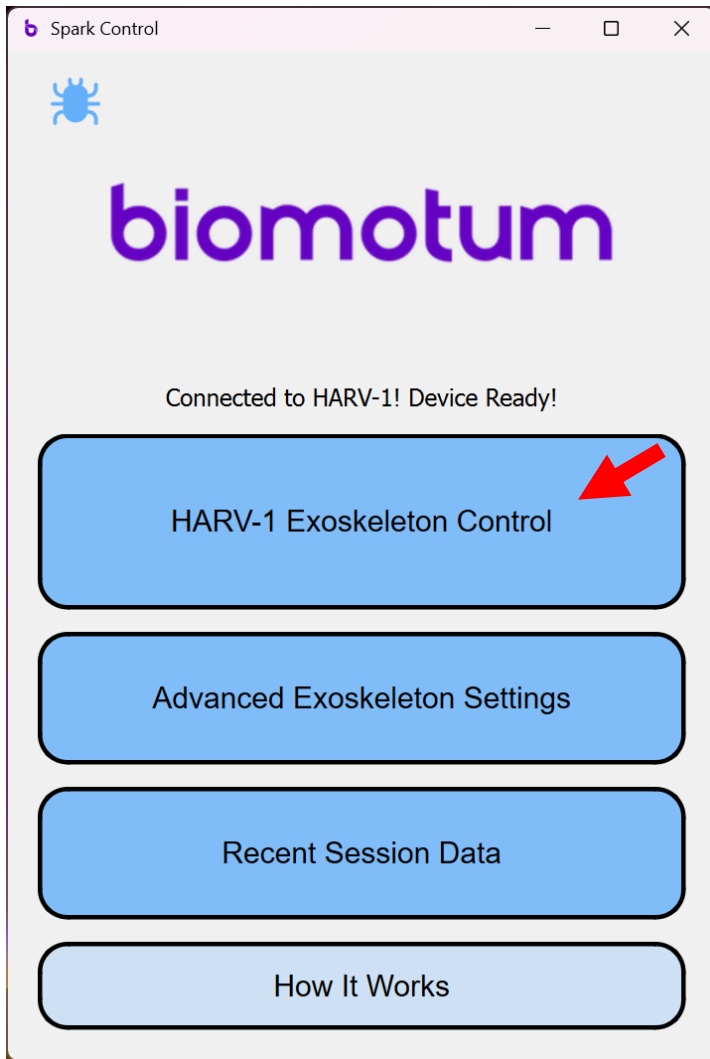
Back

Select User

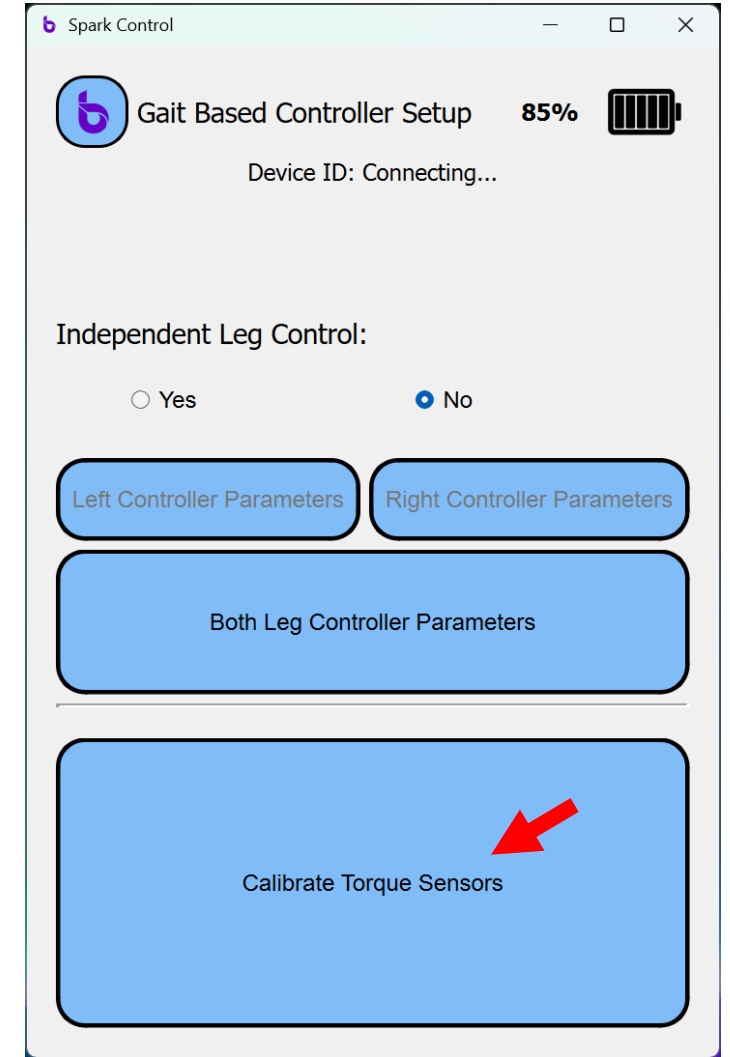
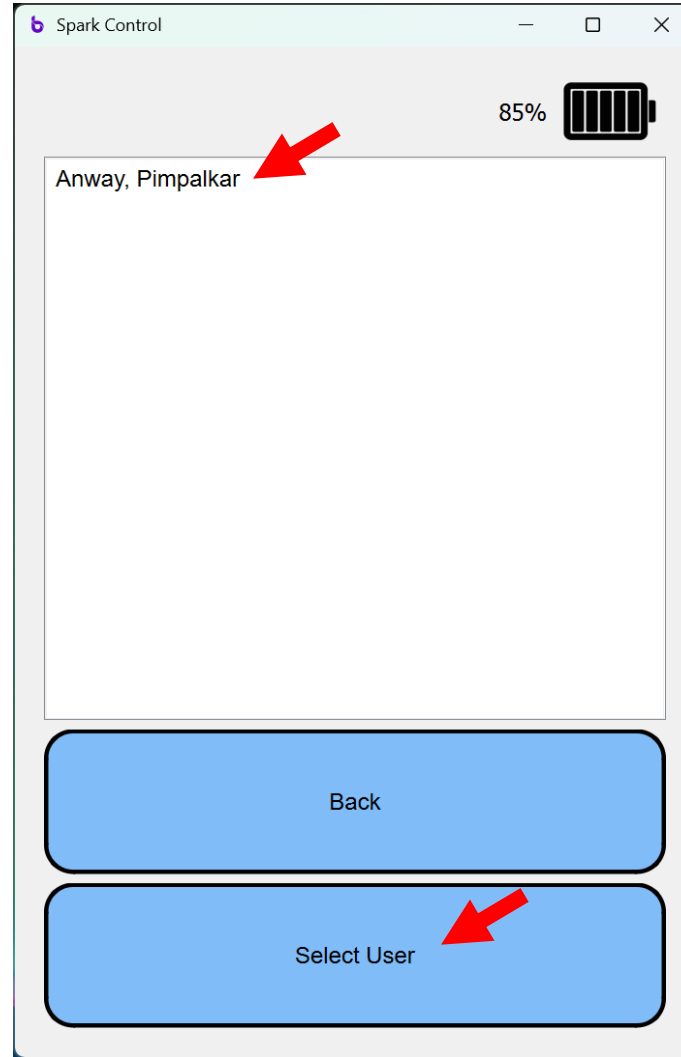
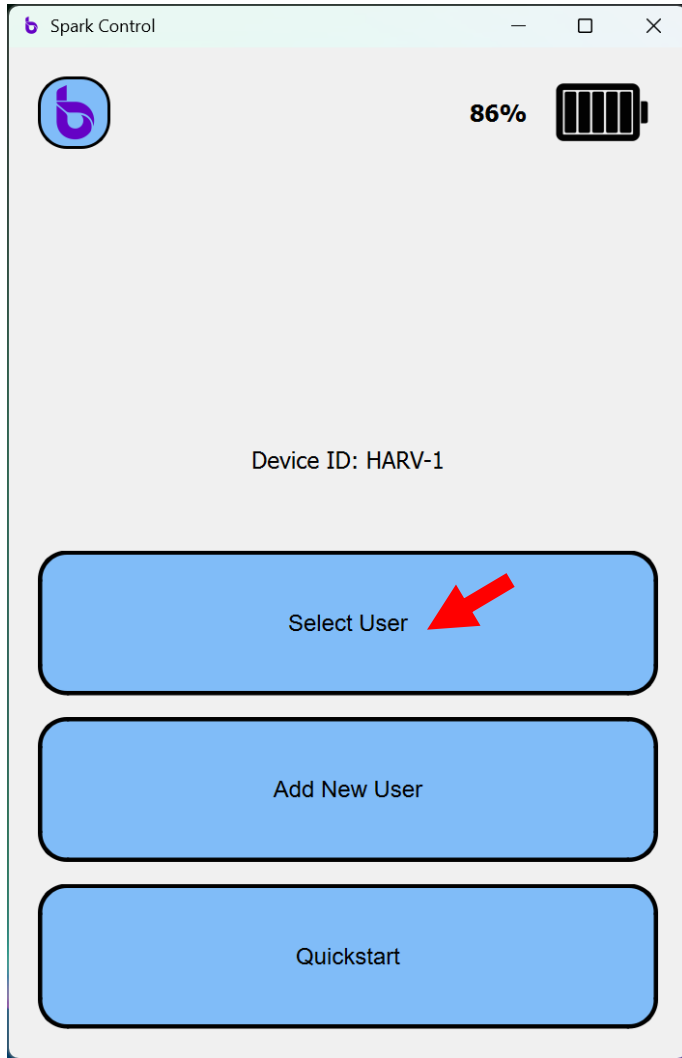


Starting a proportional control session

# Starting a gait profile-based session (1 of 4)




# Starting a proportional control session (2 of 4)



# Starting a proportional control session (3 of 4)

Spark Control

85% 

**Anway, Pimpalkar Trial Settings:**

User: Anway, Pimpalkar

Weight: 105.0 kg

---

Session Mode

☒ Assistance ☐ Resistance


---

Torque Settings

☒ Proportional to Biological Ankle Torque ☐ Absolute [Nm]

Left Stance (% of BW Torque)  Right Stance (% of BW Torque)


Left Swing (% of BW Torque)  Right Swing (% of BW Torque)

 **Calibrate Torque Sensors**

Spark Control

Calibrating Torque Sensors...

Please stand still until complete.




**Retry Calibration** **Cancel Trial**

Spark Control

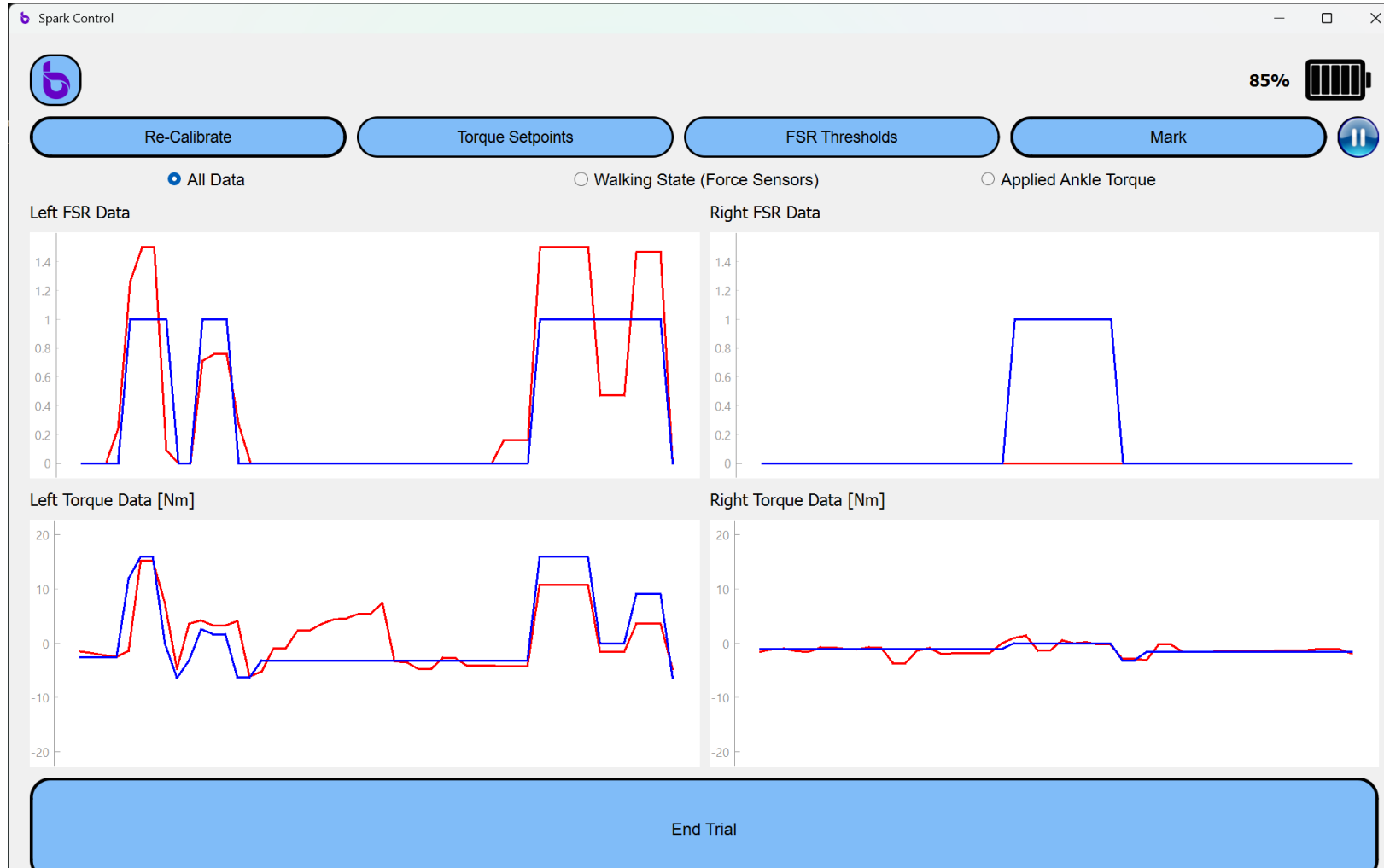
Session Ready...

**Change Settings**

**Recalibrate Torque Sensors**

 **Begin Trial**

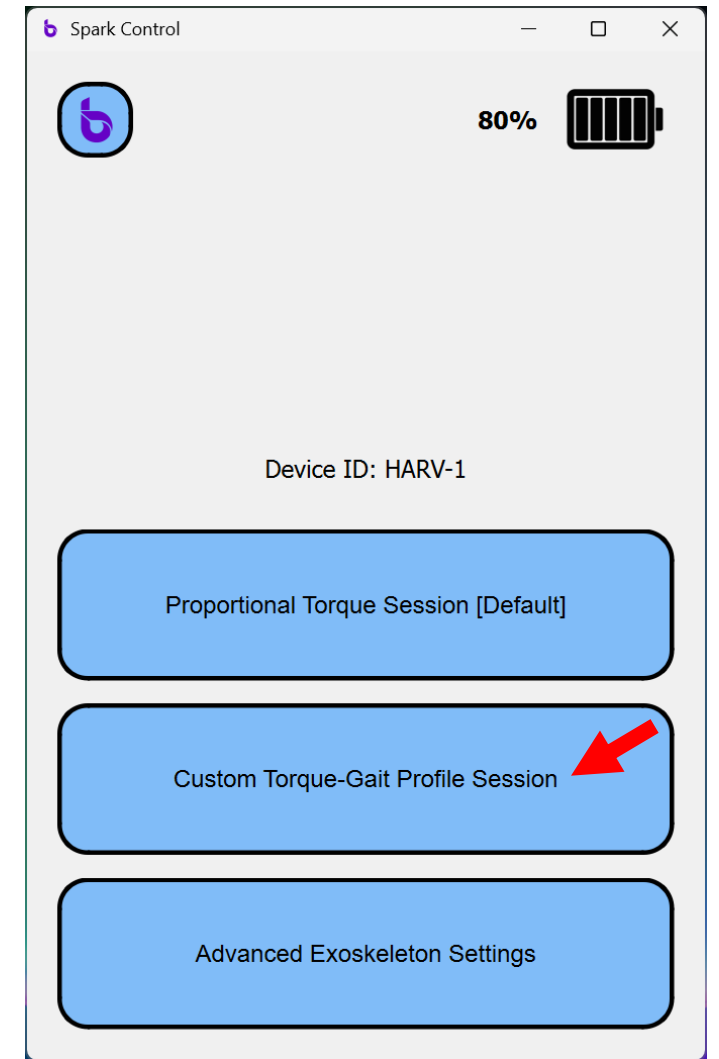
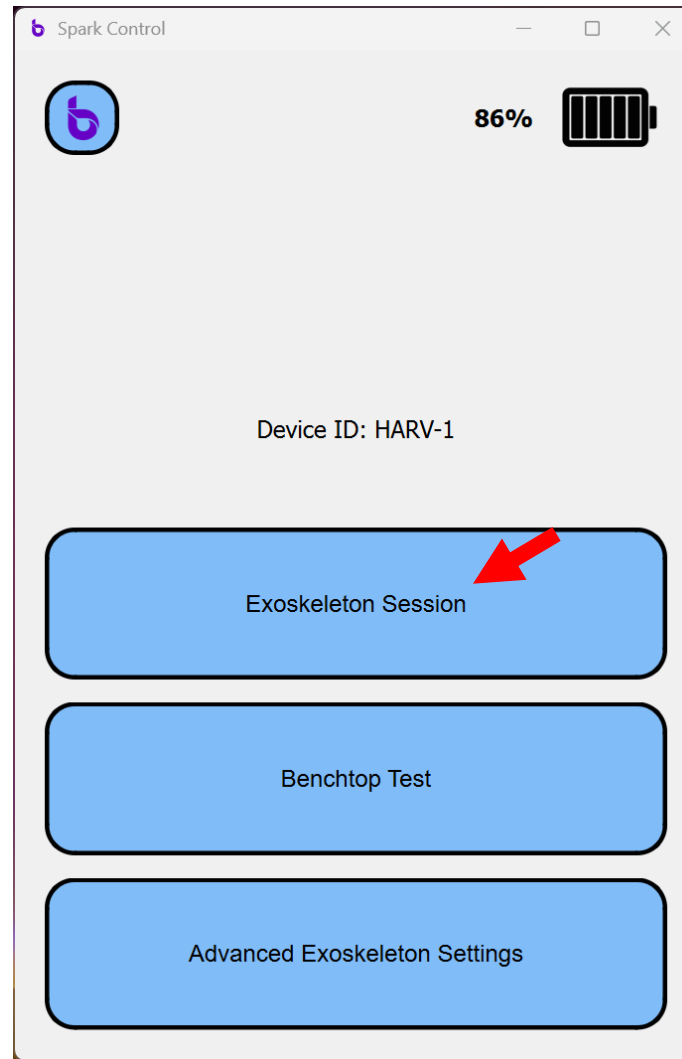
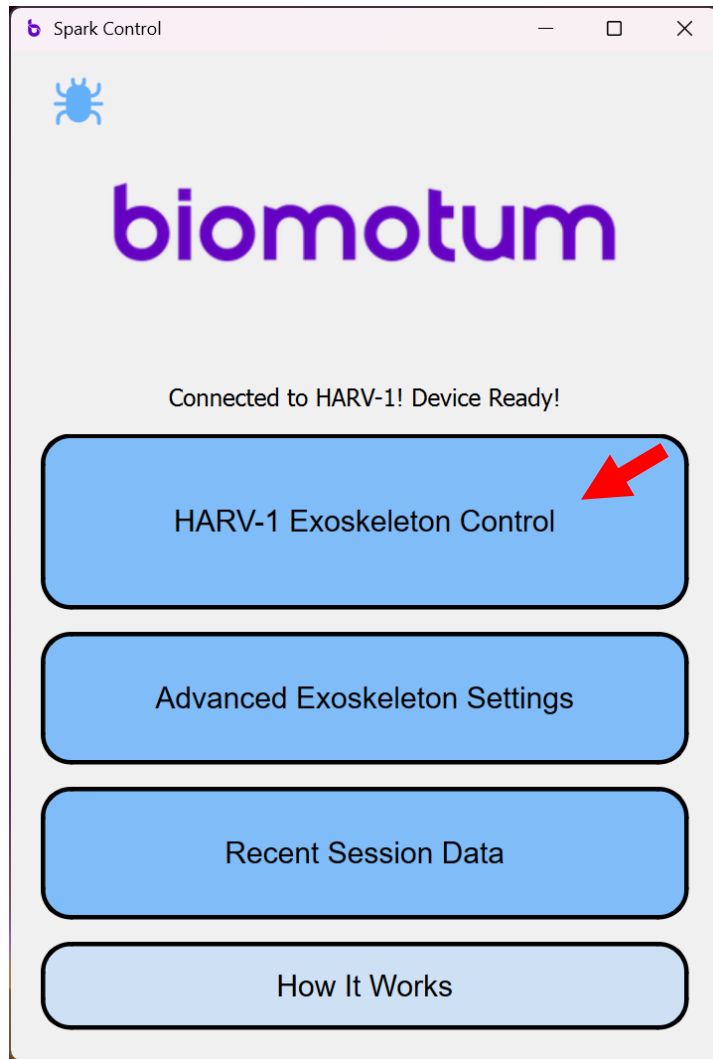
# Starting a proportional control session (4 of 4)



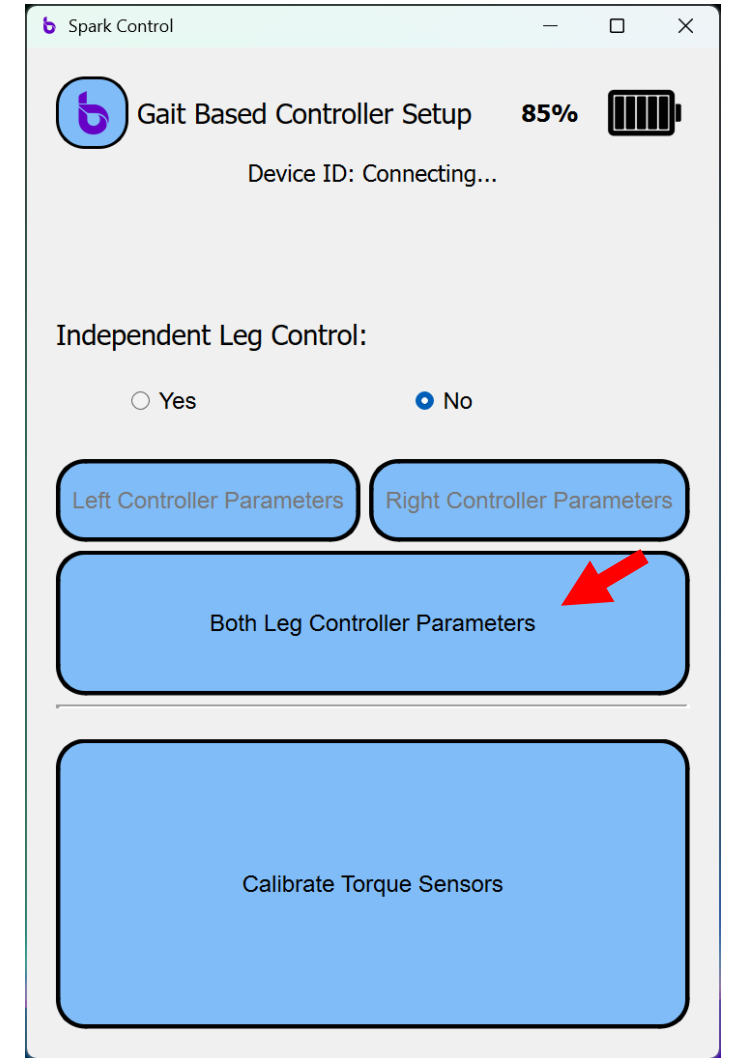
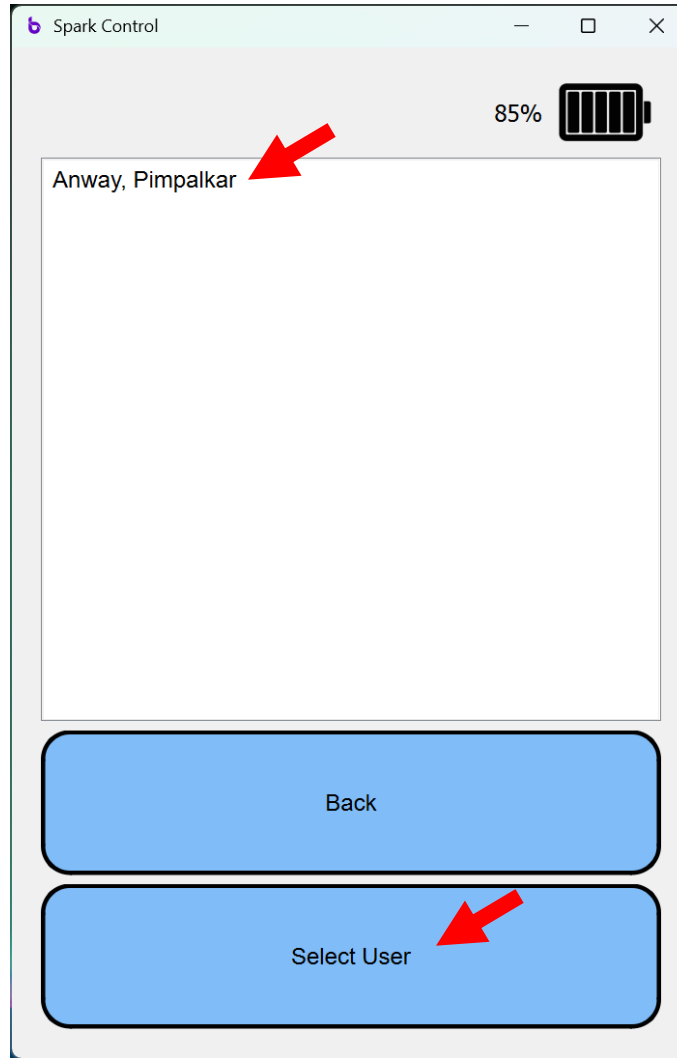
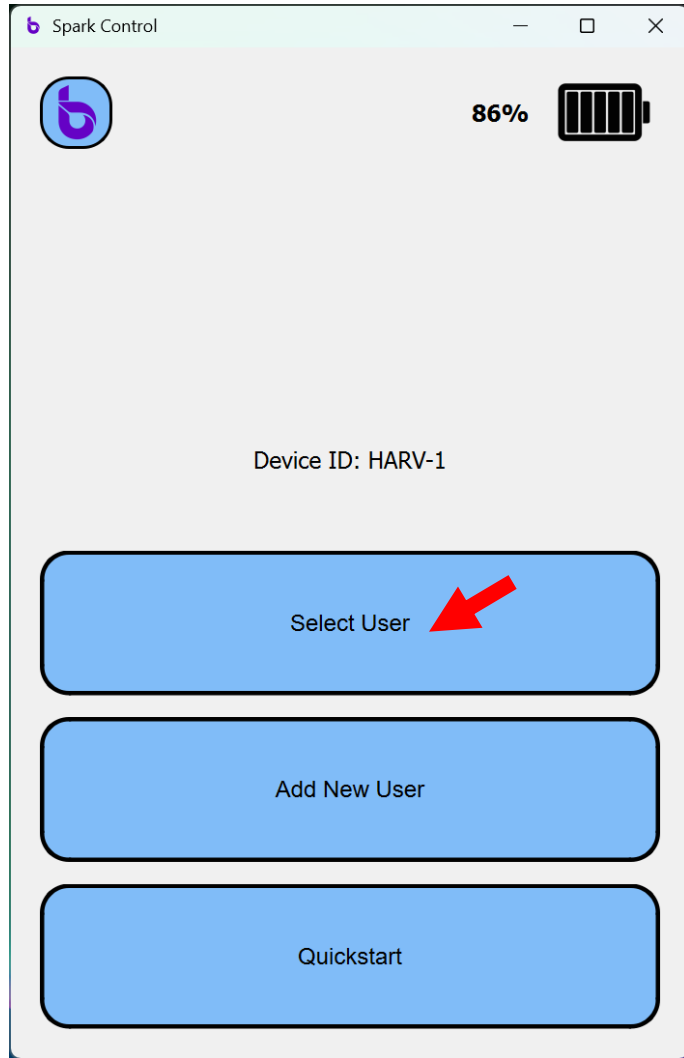
Once the trial has started, you can run your Python Script.

Starting a gait profile-based session

# Starting a gait profile-based session (1 of 5)

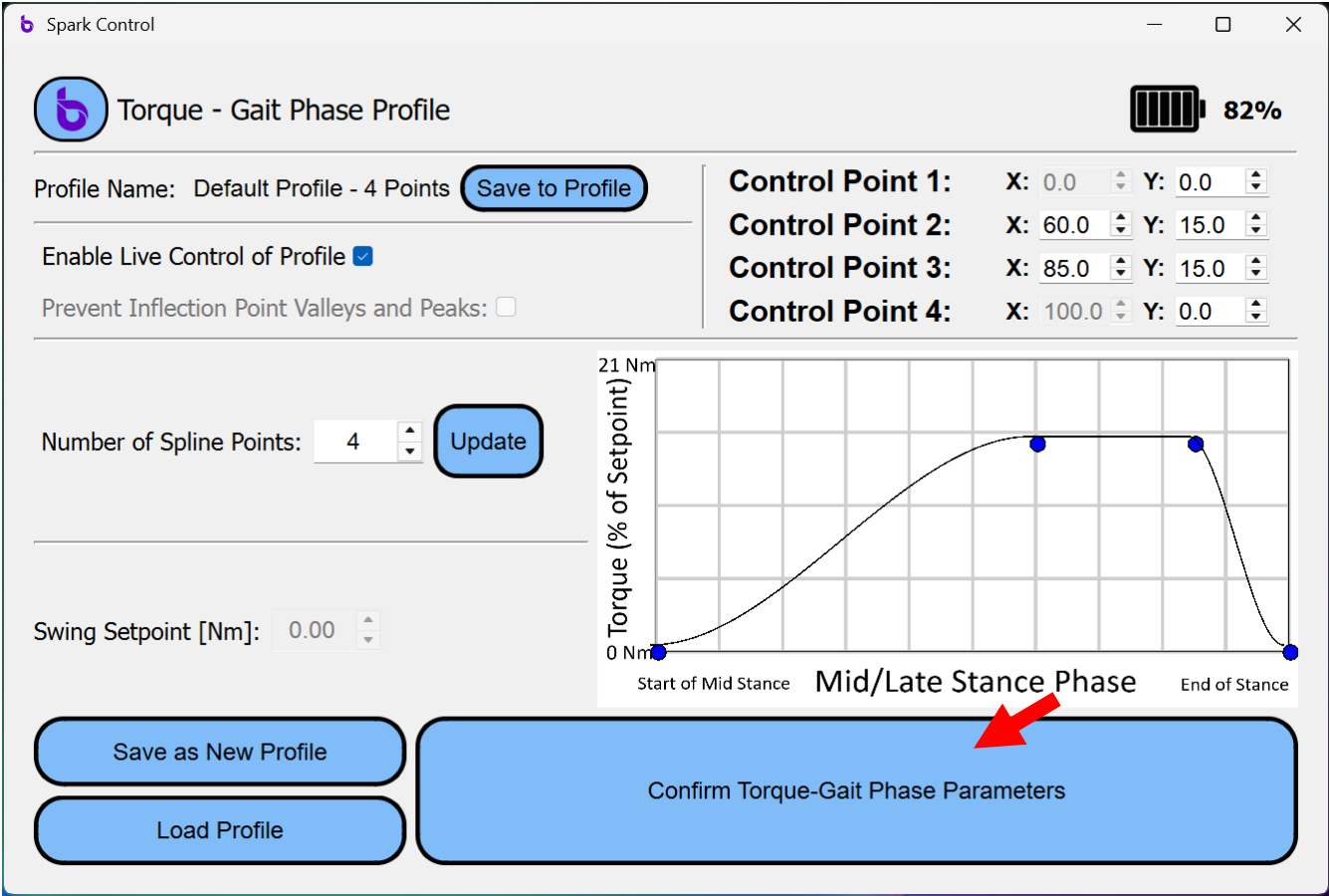


# Starting a gait profile-based session (2 of 5)

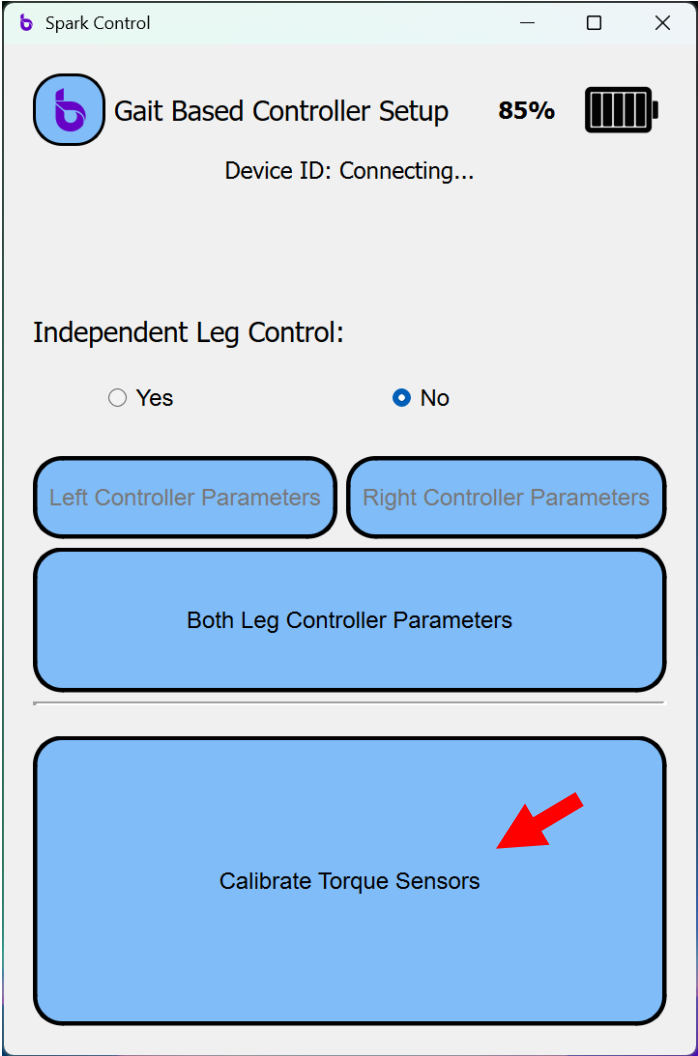




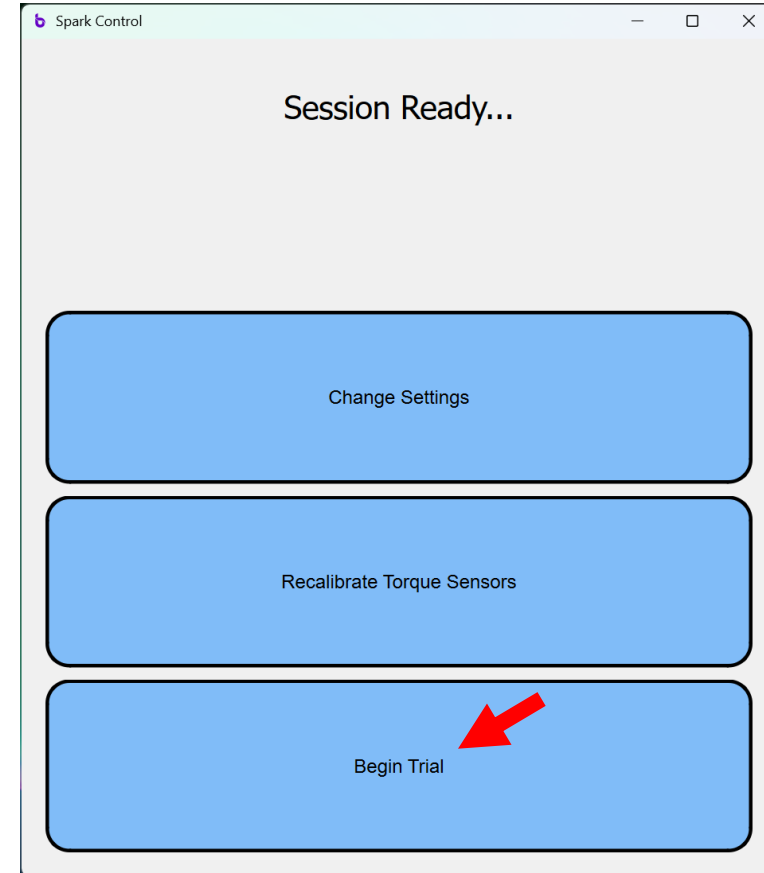
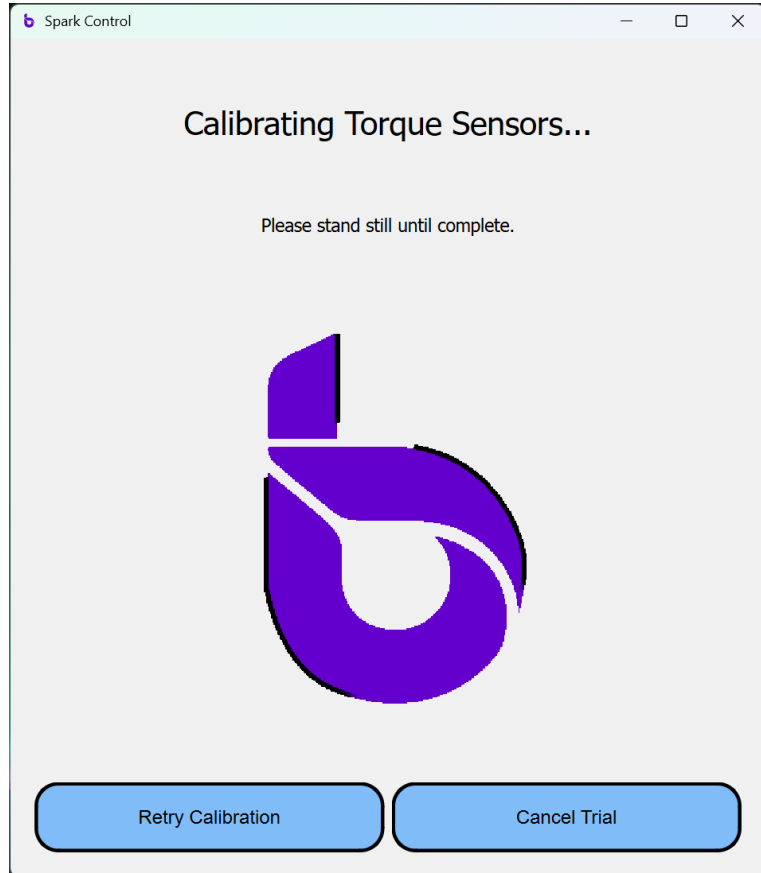
# Starting a gait profile-based session (3 of 5)



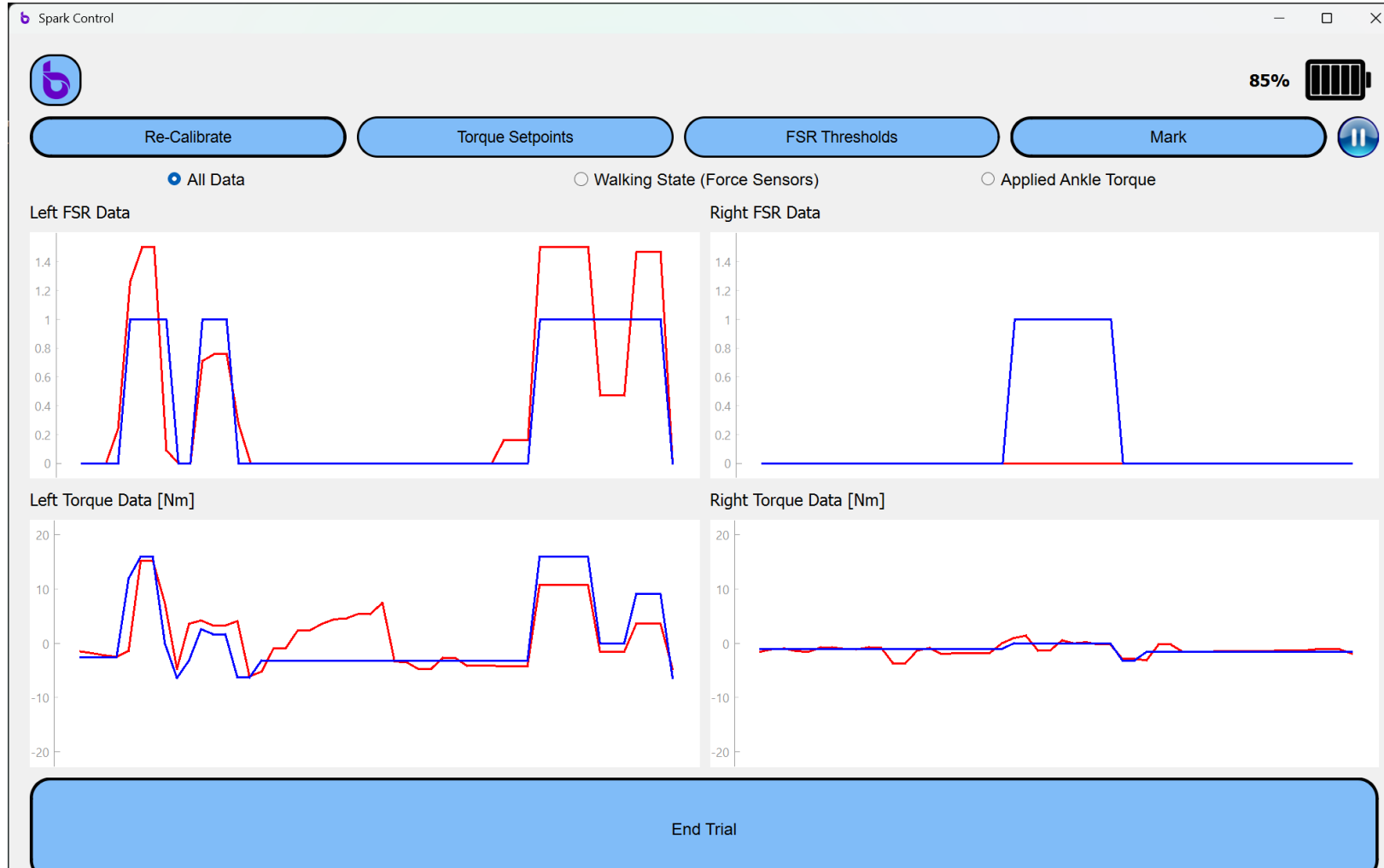
No changes necessary here



# Starting a gait profile-based session (4 of 5)



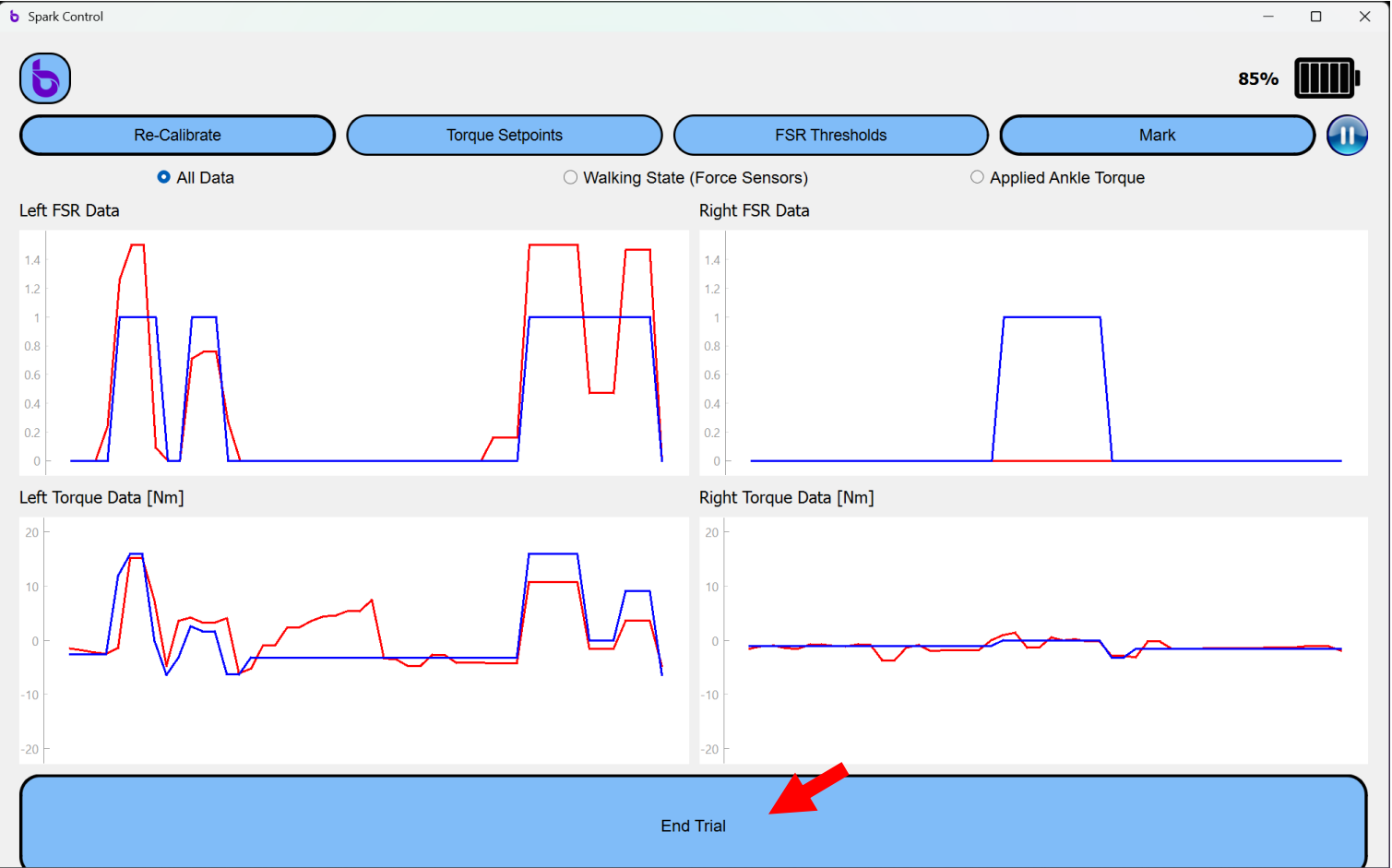
# Starting a gait profile-based session (5 of 5)



Once the trial has started, you can run your Python Script.

Saving data as .csv

# Saving data as .csv



The "Save Trial Data" dialog box in the Spark Control application contains the following elements:

- A blue button labeled "Select Local Save Location" at the top, highlighted with a red arrow.
- Below the button, the "Save Directory" is set to `C:/Users/siran/AppData/Local/Programs/Biomotum`.
- The "File Name" field contains the text `Anyway, Pimpalkar2025-12-08_19-38`.
- Two unchecked checkboxes are present:
  - ☐ Backup Trial Data with Biomotum Cloud Storage
  - ☐ Share anonymized data with Biomotum to help improve device functionality for all users
- At the bottom, there are two blue buttons: "Export CSV" (highlighted with a red arrow) and "End Without Exporting Data".