



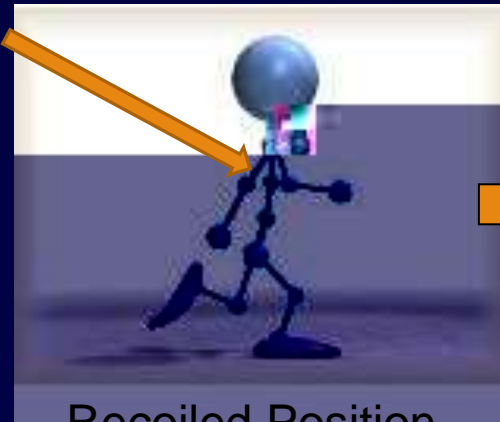




Model of Walking Gait: Full body movement



Extended Position



Recoiled Position



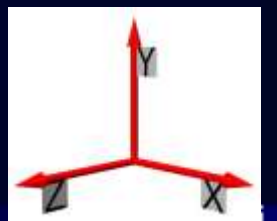
Passing Position



Falling Position



Extended Position



Head-on view

Overhead view



Relationship with Hip Movement in Walking

Figure 2: Top view of hip movement showing how shoulder movement relates to hip rotation. As the back leg (black arrow) is back, the opposite shoulder (green arrow) is swinging forward.



Experimental Design

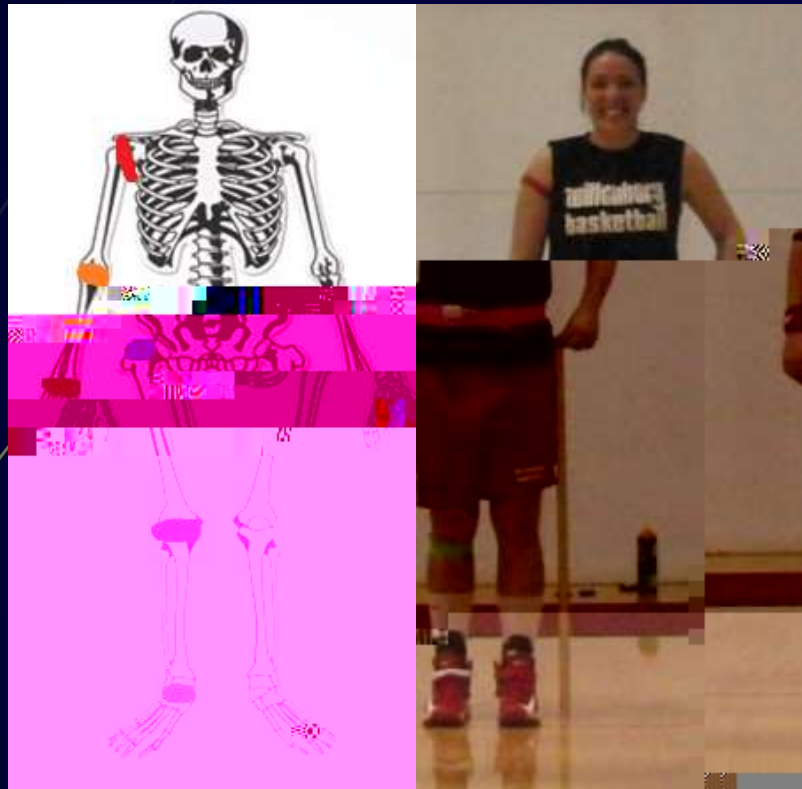


Figure 4: Model of Data Collection

















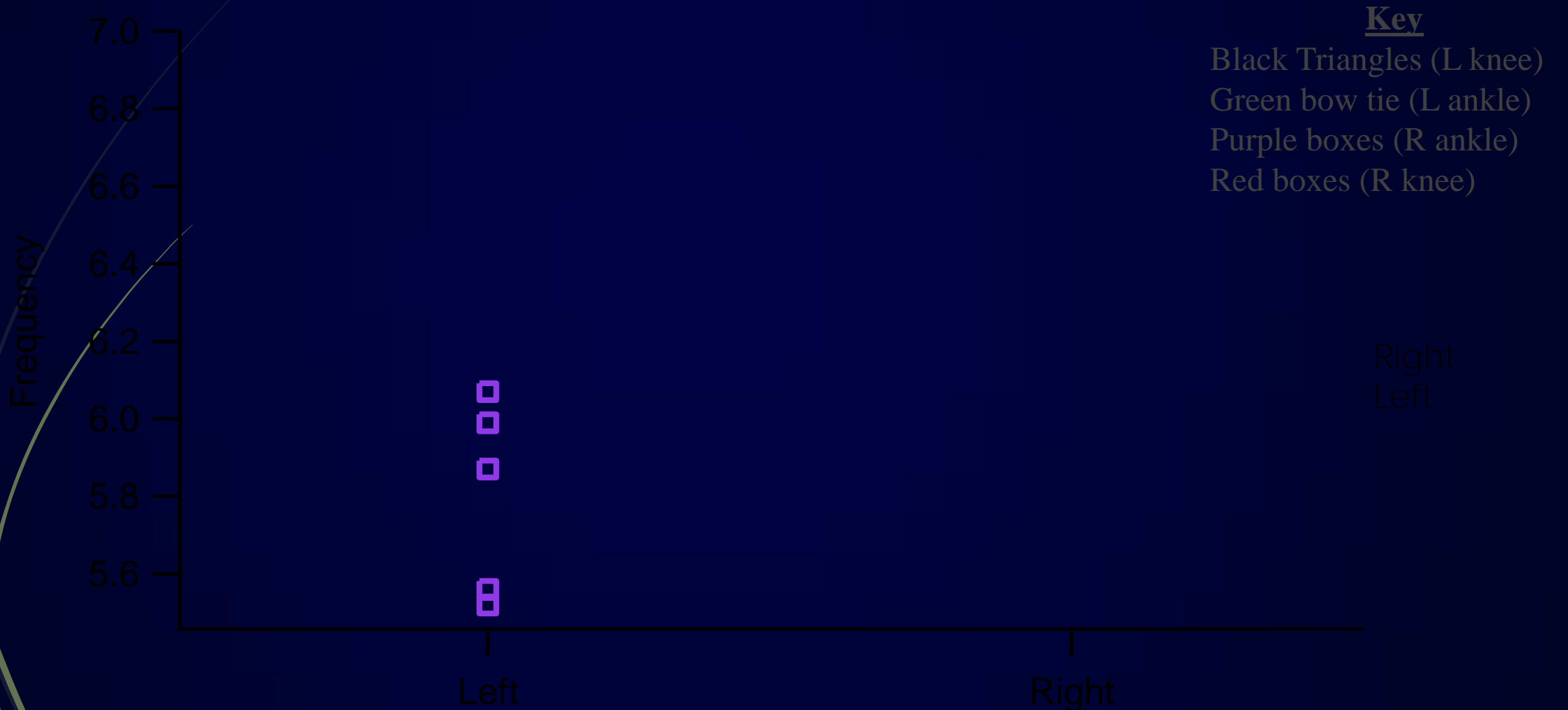


Results of Left Knee Side Injury

Table 4: Comparison between arm location and their corresponding arm frequency in left knee injury.

<u>Arm Location</u>	<u>Frequency</u>
Right Elbow	5.71 ± 0.05
Left Elbow	5.52 ± 0.03
Right Hand	5.83 ± 0.02
Left Hand	5.50 ± 0.02

Major Results: Comparison with Data sets to Control



Left and Right Shoulder









