

A 3D scatter plot showing the distribution of data points across three principal components (PC1, PC2, PC3). The plot is divided into three environments (Env 0, Env 1, Env 3) and five classes (Cls 0 to Cls 4). The data points are colored and shaped according to the legend:

- Env 0, Cls 0: Red circle
- Env 0, Cls 1: Green circle
- Env 0, Cls 2: Blue circle
- Env 0, Cls 3: Cyan circle
- Env 0, Cls 4: Magenta circle
- Env 1, Cls 0: Red plus
- Env 1, Cls 1: Green plus
- Env 1, Cls 2: Blue plus
- Env 1, Cls 3: Cyan plus
- Env 1, Cls 4: Magenta plus
- Env 3, Cls 0: Red triangle
- Env 3, Cls 1: Green triangle
- Env 3, Cls 2: Blue triangle
- Env 3, Cls 3: Cyan triangle
- Env 3, Cls 4: Magenta triangle

The plot shows that the data points for each class are clustered together, indicating that the principal components capture the underlying structure of the data. The environment (Env 0, Env 1, Env 3) is a key factor in the separation of the data points along the PC1 and PC2 axes.