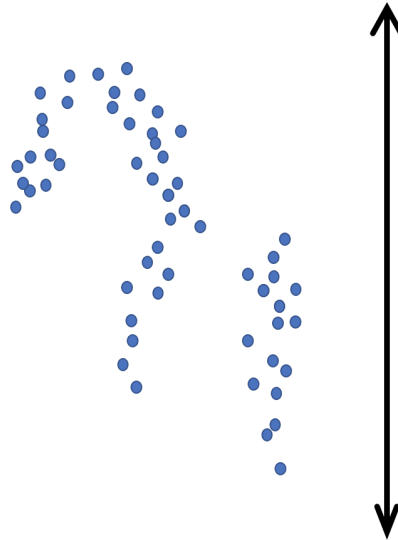


# Mapper

While working in a group make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.



1. Consider the data plotted to the right (in  $\mathbb{R}^2$ ). Define  $f : X \rightarrow \mathbb{R}^1$  defined as  $f(x, y, z) = z$ . Use the (rainbow colored) open sets  $U_1, U_2, U_3, U_4, U_5,$  and  $U_6$  below on  $\mathbb{R}^1$  to use the Mapper algorithm transforming the hand into a graph.

