## Motivation

## **Problem Definition**

Combine both overfitted representation and generalized representation to enable part-level editing

## **Key Technical Contribution**

How to blend the weights between both representation for part-level editing.

## Method - Generalizable Shape Representation

Let's define some symbols:)

A shape 
$$S := \{P_1, ..., P_n\}$$

A part 
$$P_i := (C_i, g_i)$$

- The cuboid  $C_i := (v_i, e_i, o_i)$  position, scale, and rotation.
- The geometric latent vector  $g_i := h_w(r_1^i, r_2^i, \dots, r_m^i)$  where  $h_w$  is PointNet

*n* - number of parts

m - number of points sampled per each part