

Symmetry equivariant neural networks

1. There is ongoing debate in the ML community about the value of trying to incorporate domain knowledge into architectures vs using computational brute force.
 - a. What guides your intuition for the value of building symmetry-equivariant architectures?
 - b. In your experience when is symmetry-equivariance valuable and when is it not?
2. What makes gauge equivariance in particular challenging from a computational efficiency perspective?