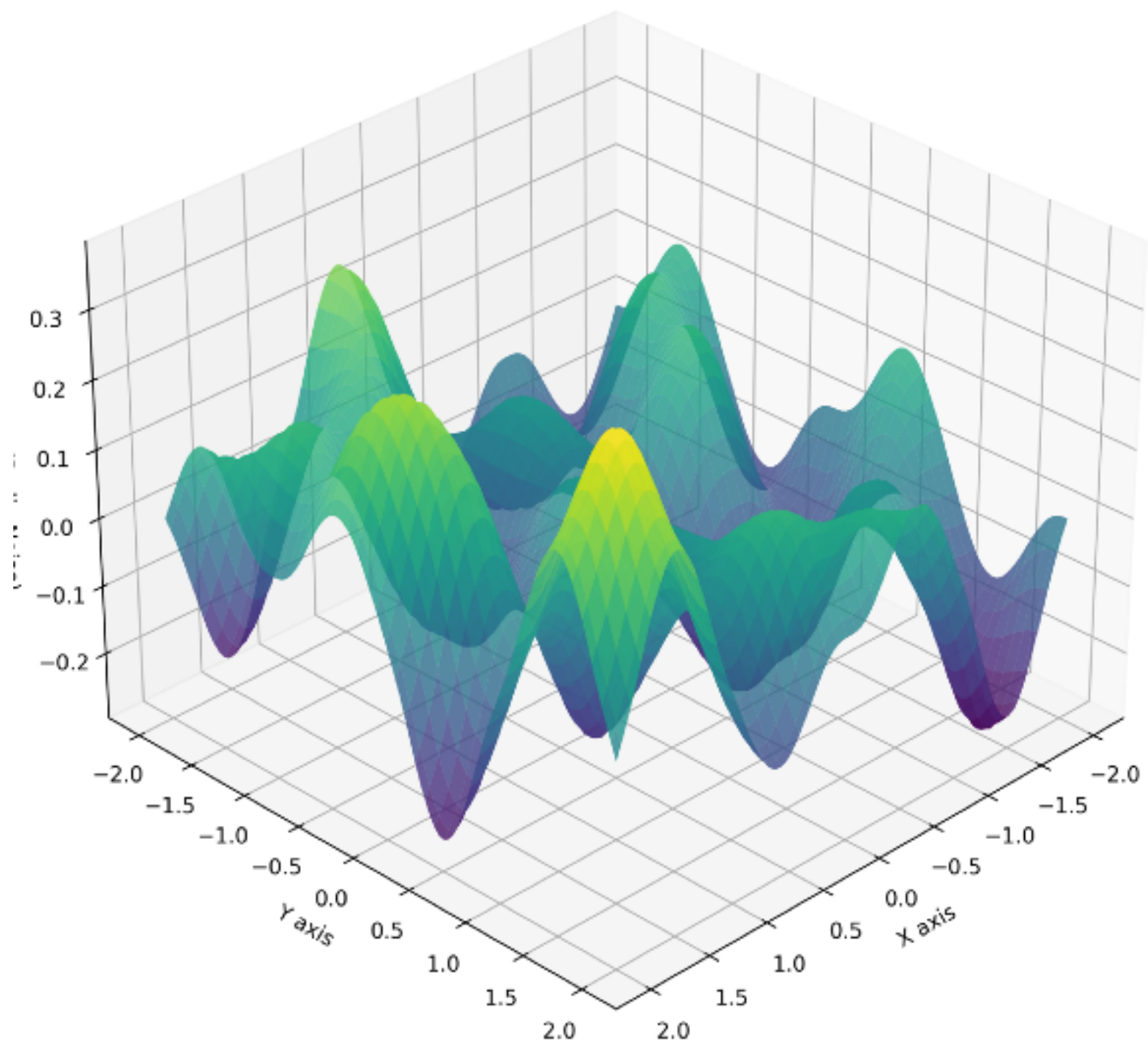


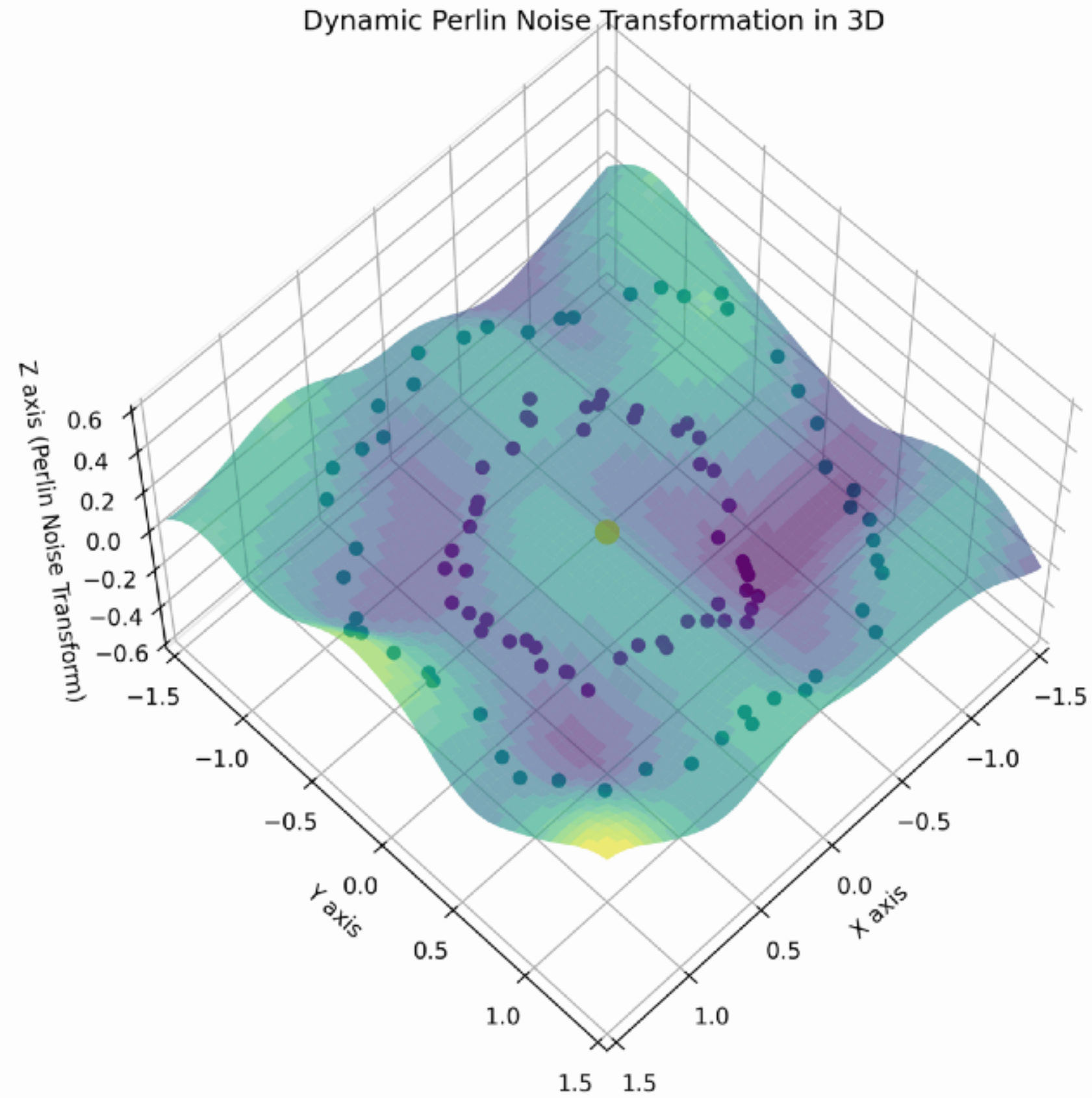


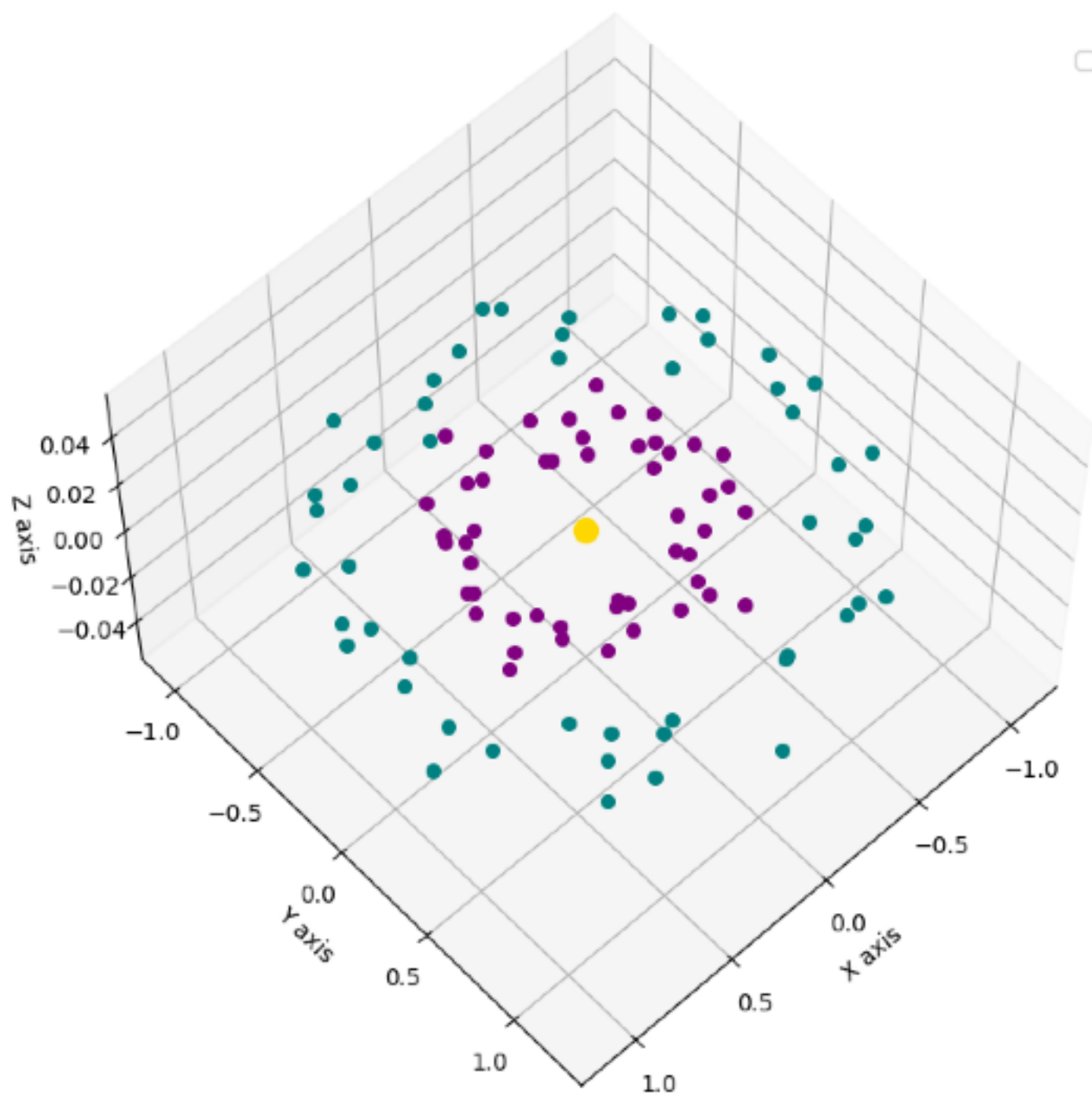
How to solve the non-linearity problem?





Dynamic Perlin Noise Transformation in 3D





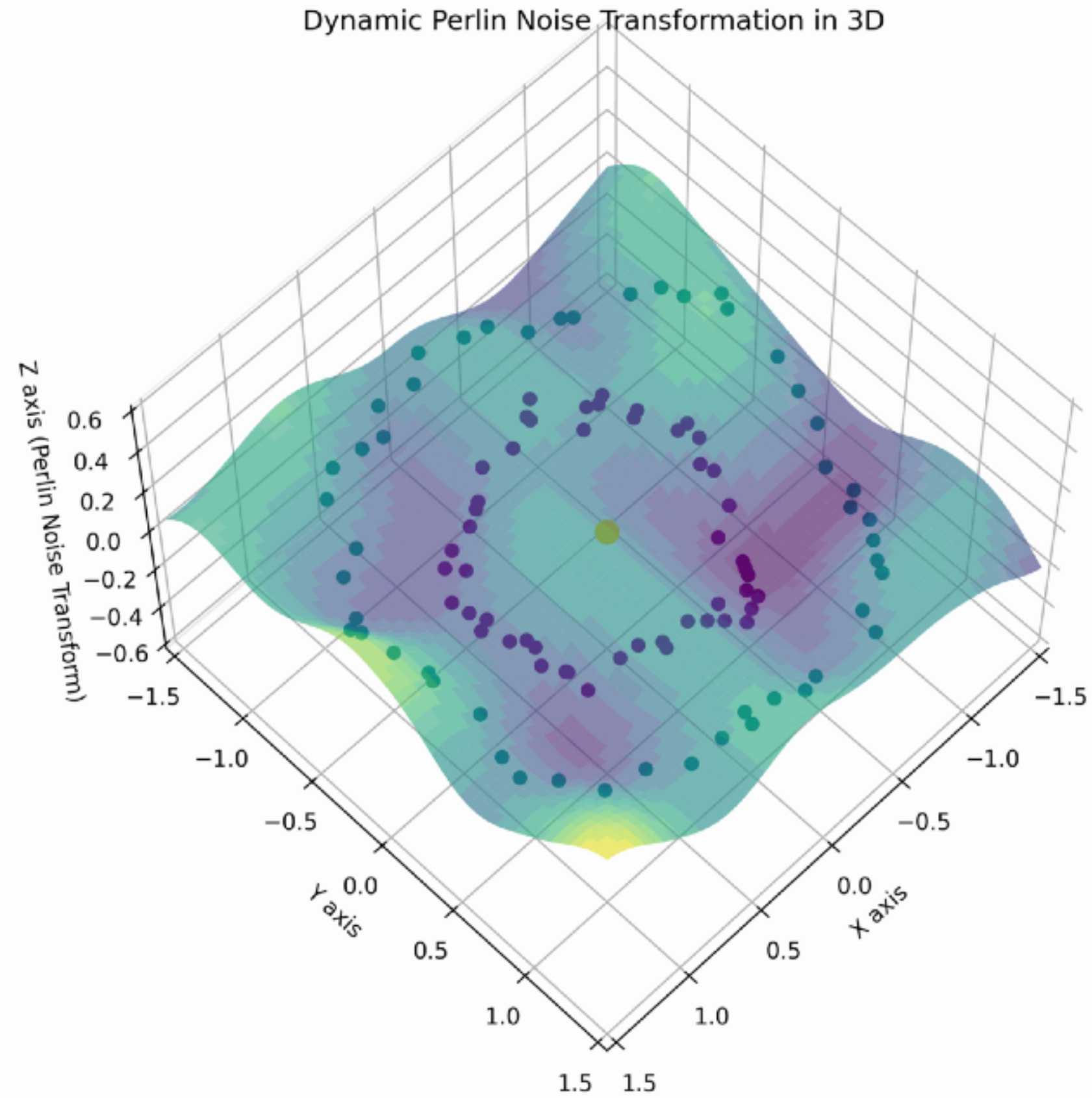
Example episode where class  
embeddings are not linearly  
separable

Searching for a non-linear transformation  
of the embedding space that allows linear  
seperability

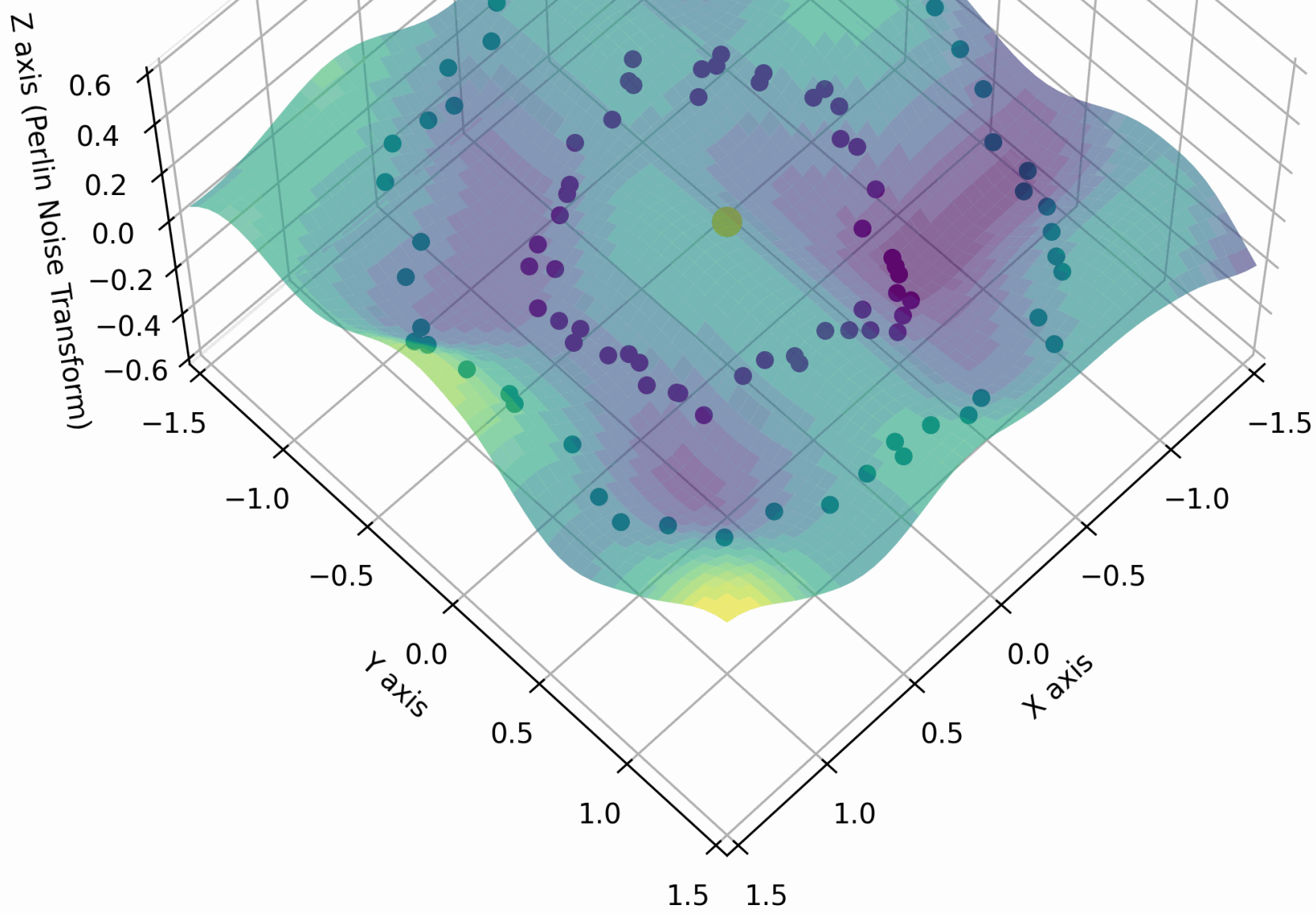


Non-linear of the embedding space that  
performs good across all episodes

Dynamic Perlin Noise Transformation in 3D

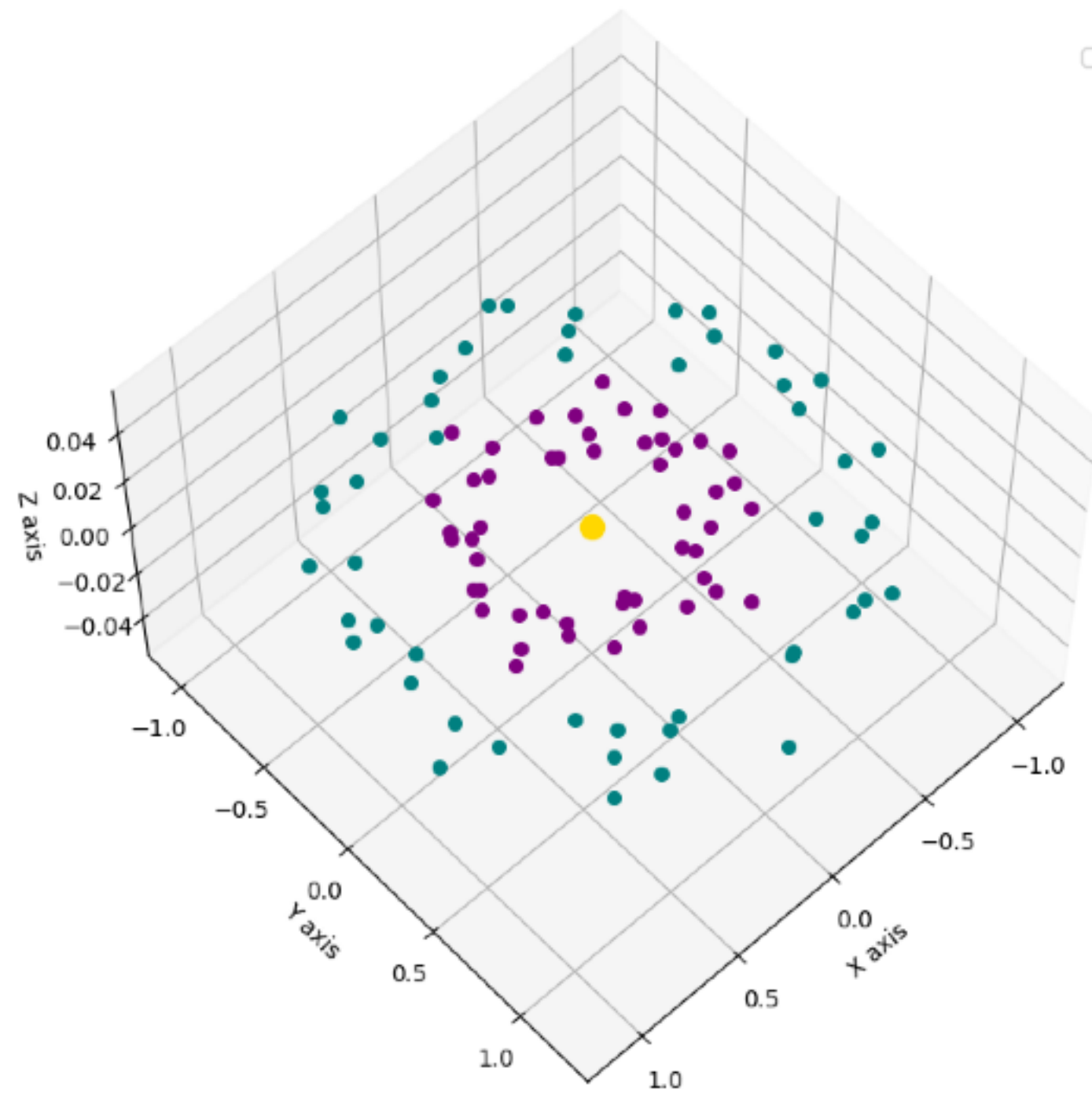


Dynamic Perlin Noise Transformation in 3D

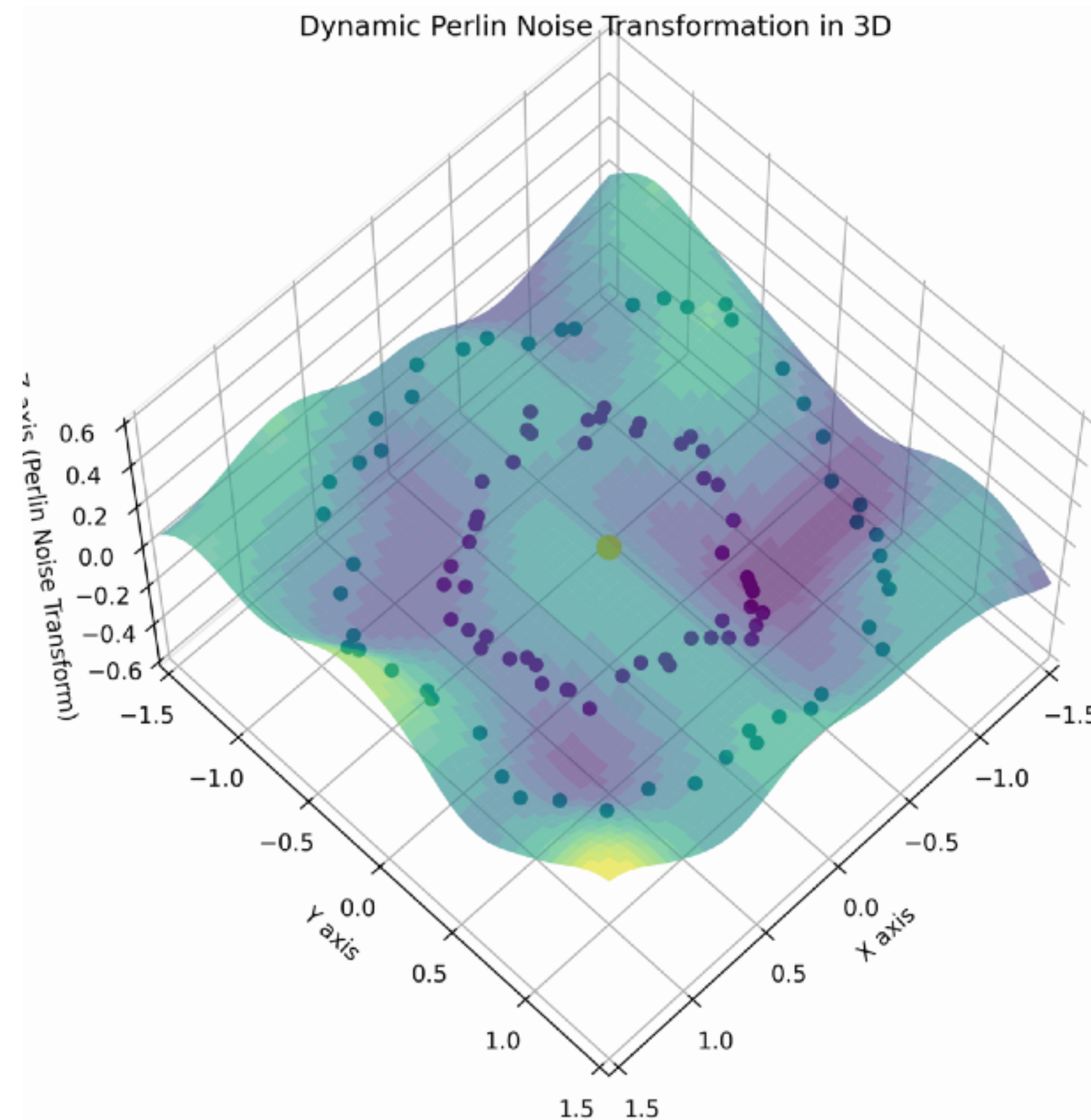




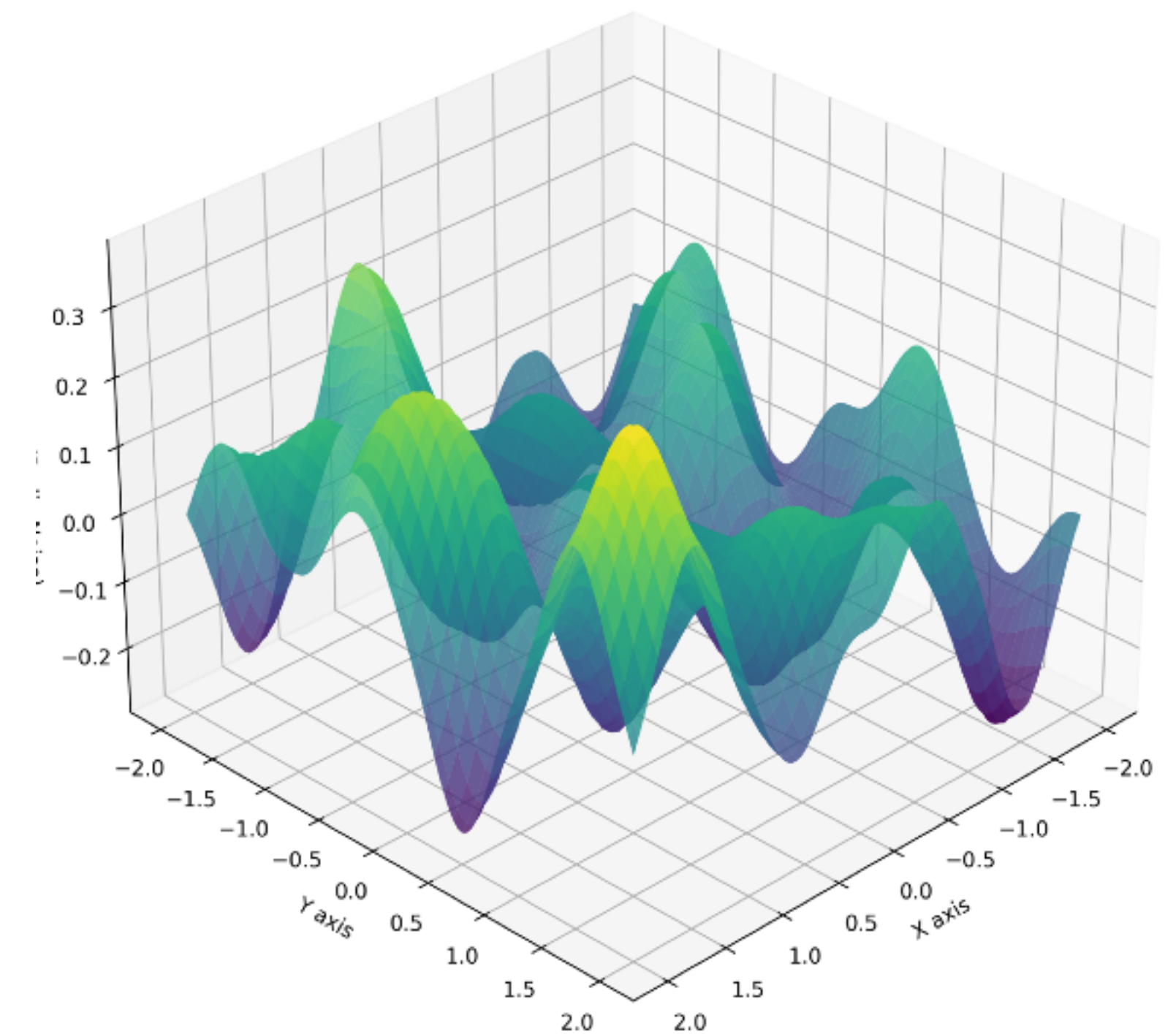
# How to solve the non-linearity problem?



Example episode where class embeddings are not linearly separable



Searching for a non-linear transformation of the embedding space that allows linear separability



Non-linear of the embedding space that performs good across **all episodes**

# Relation Nets

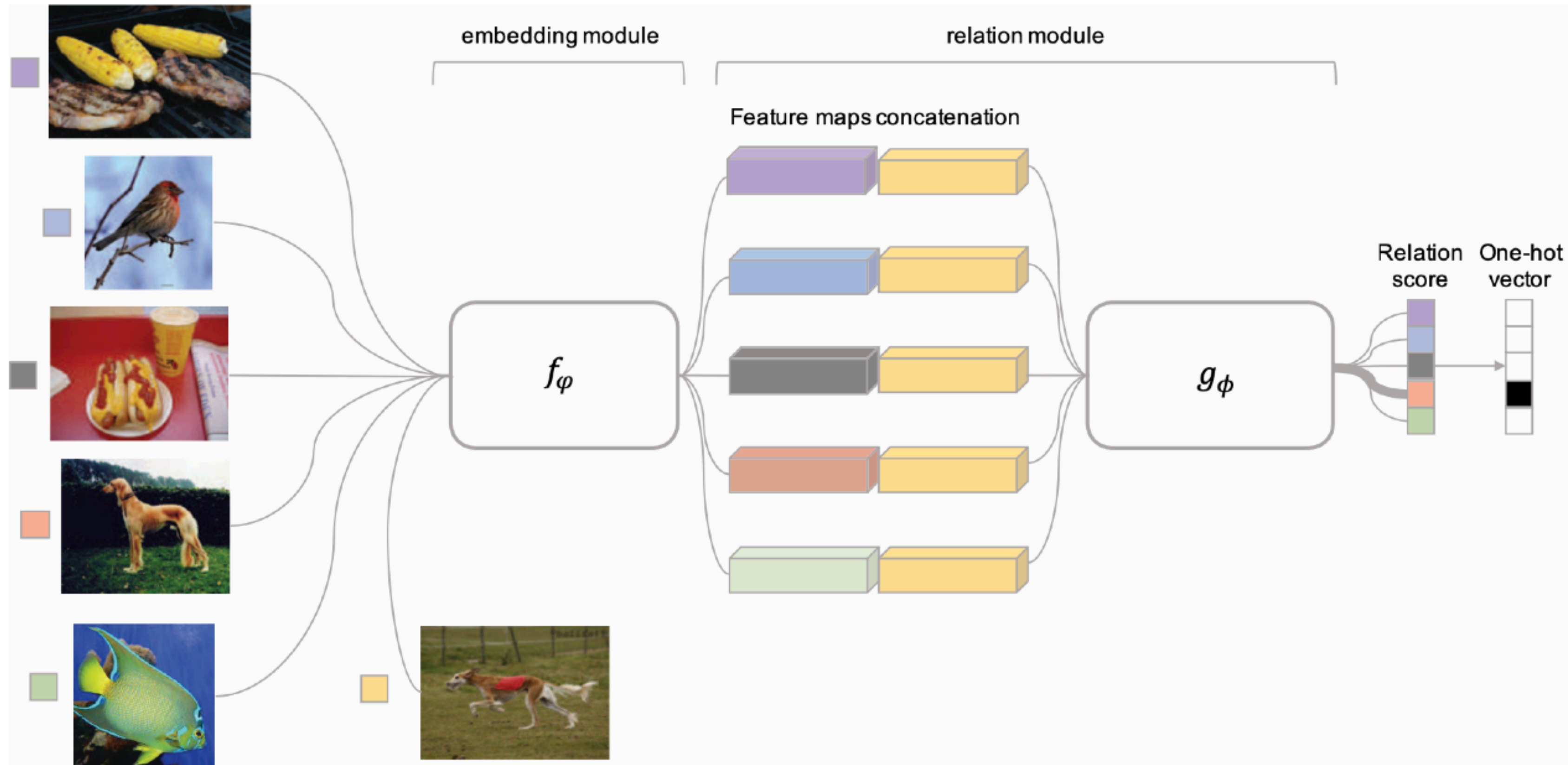


Figure 1: Relation Network architecture for a 5-way 1-shot problem with one query example.