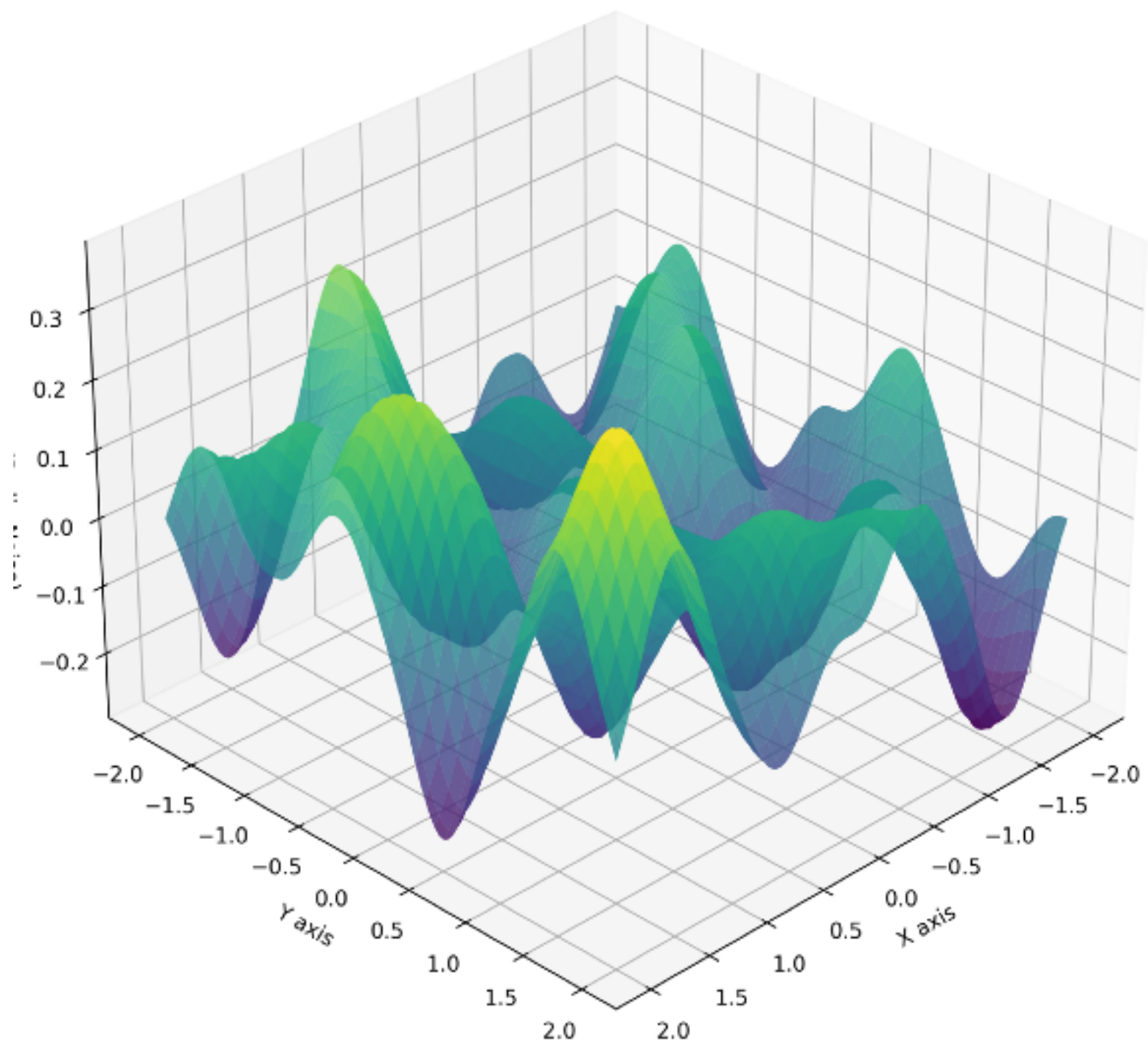
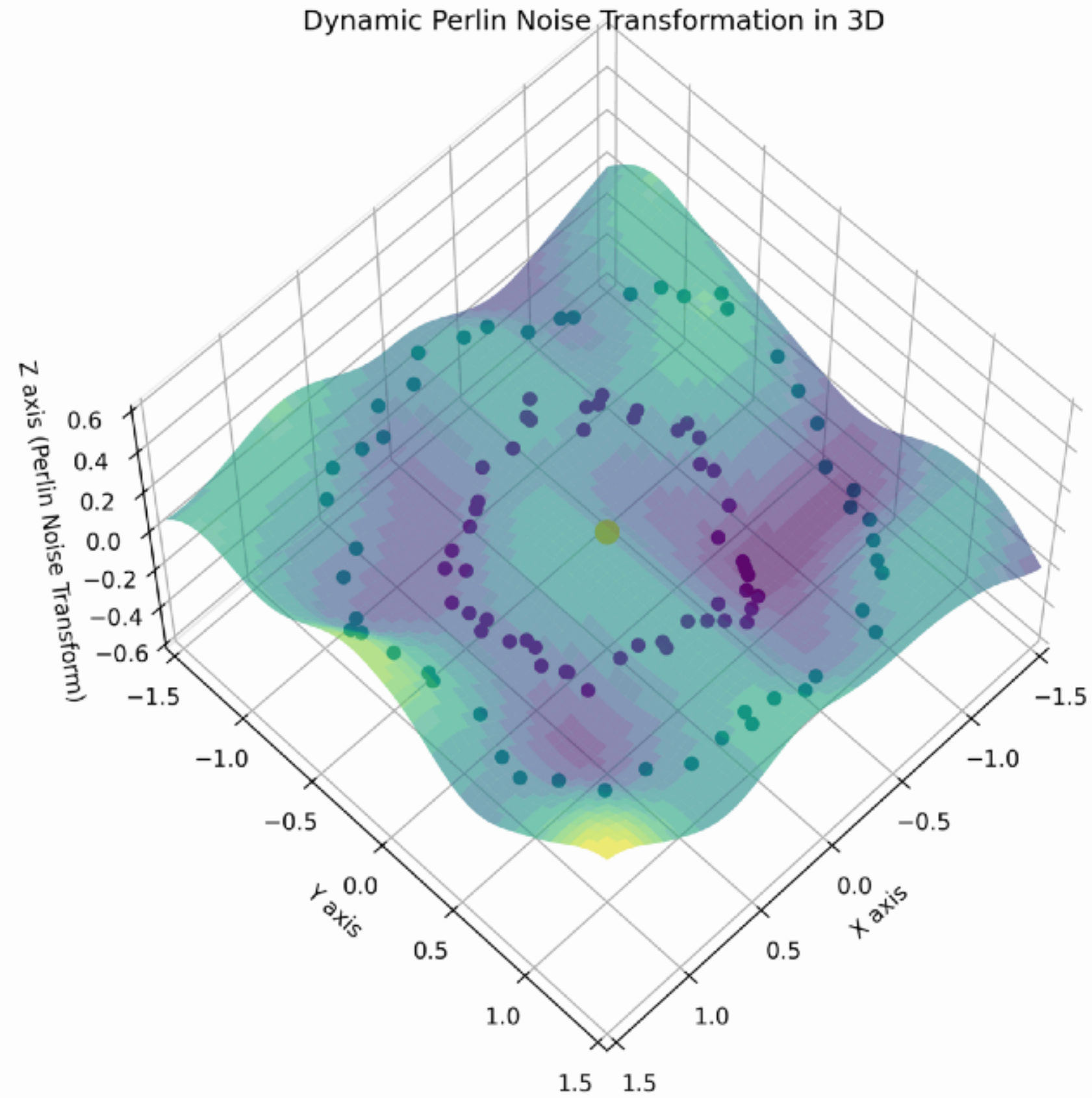


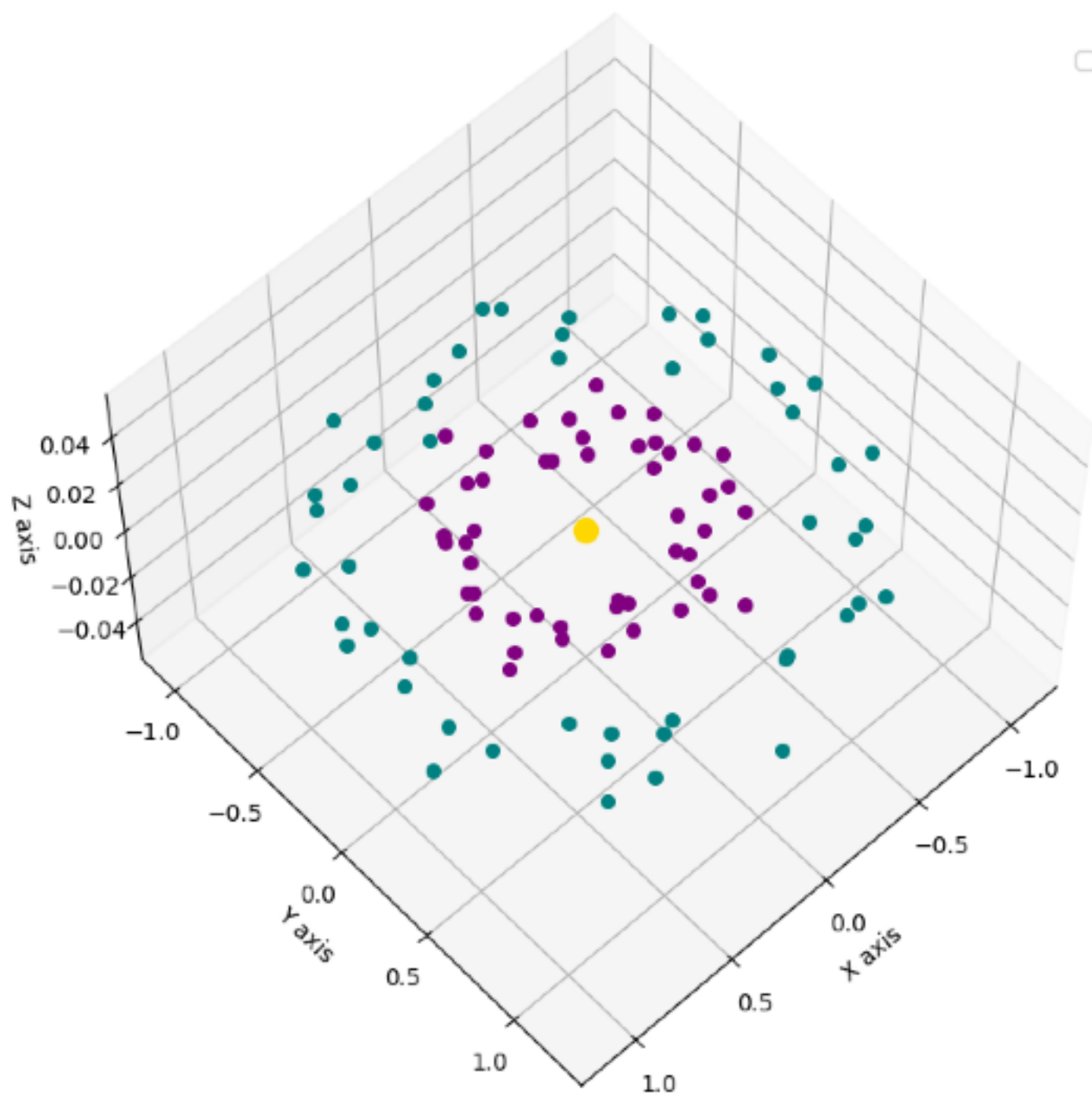
How to solve the non-linearity problem?





Dynamic Perlin Noise Transformation in 3D



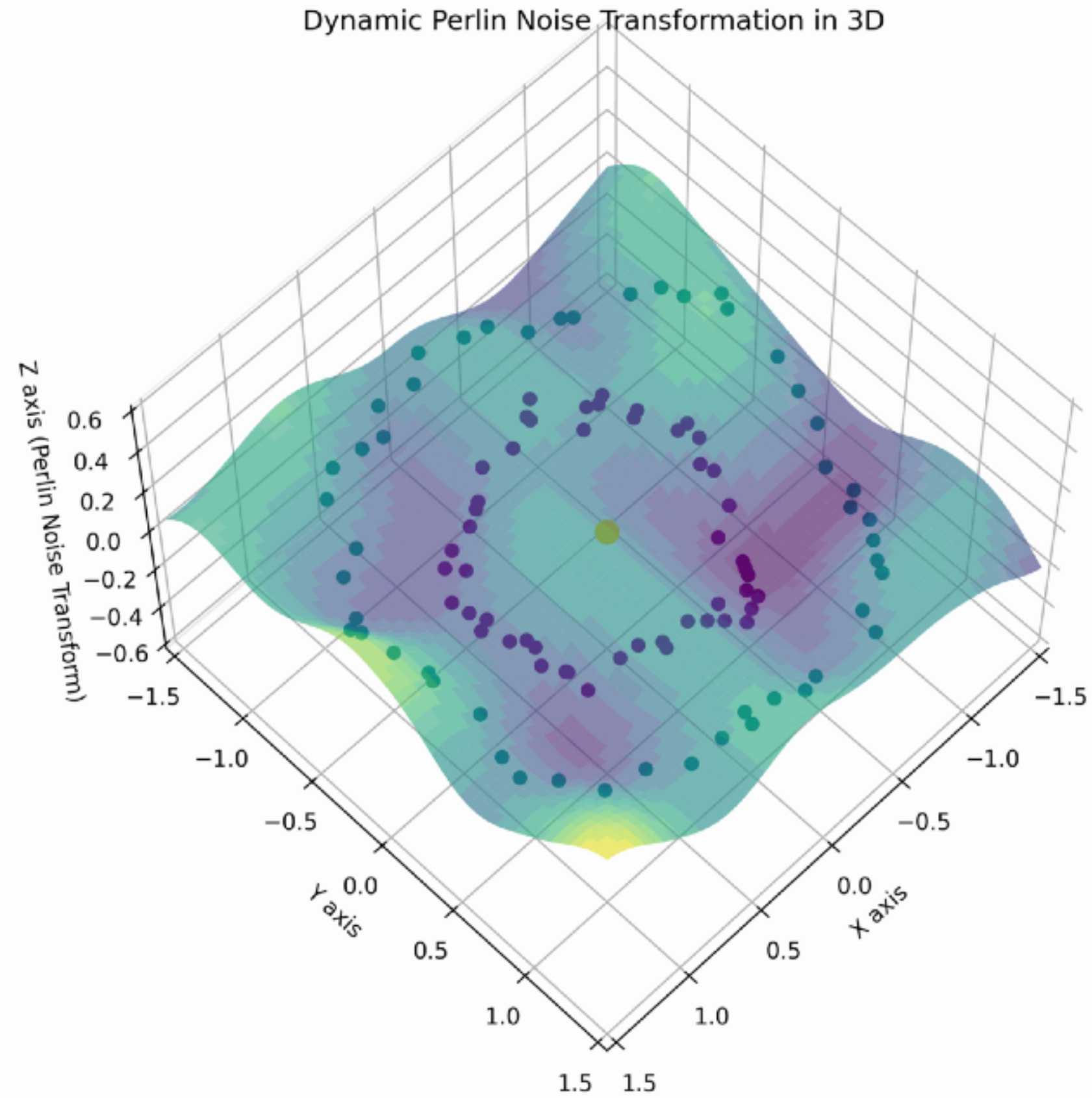


Example episode where class
embeddings are not linearly
separable

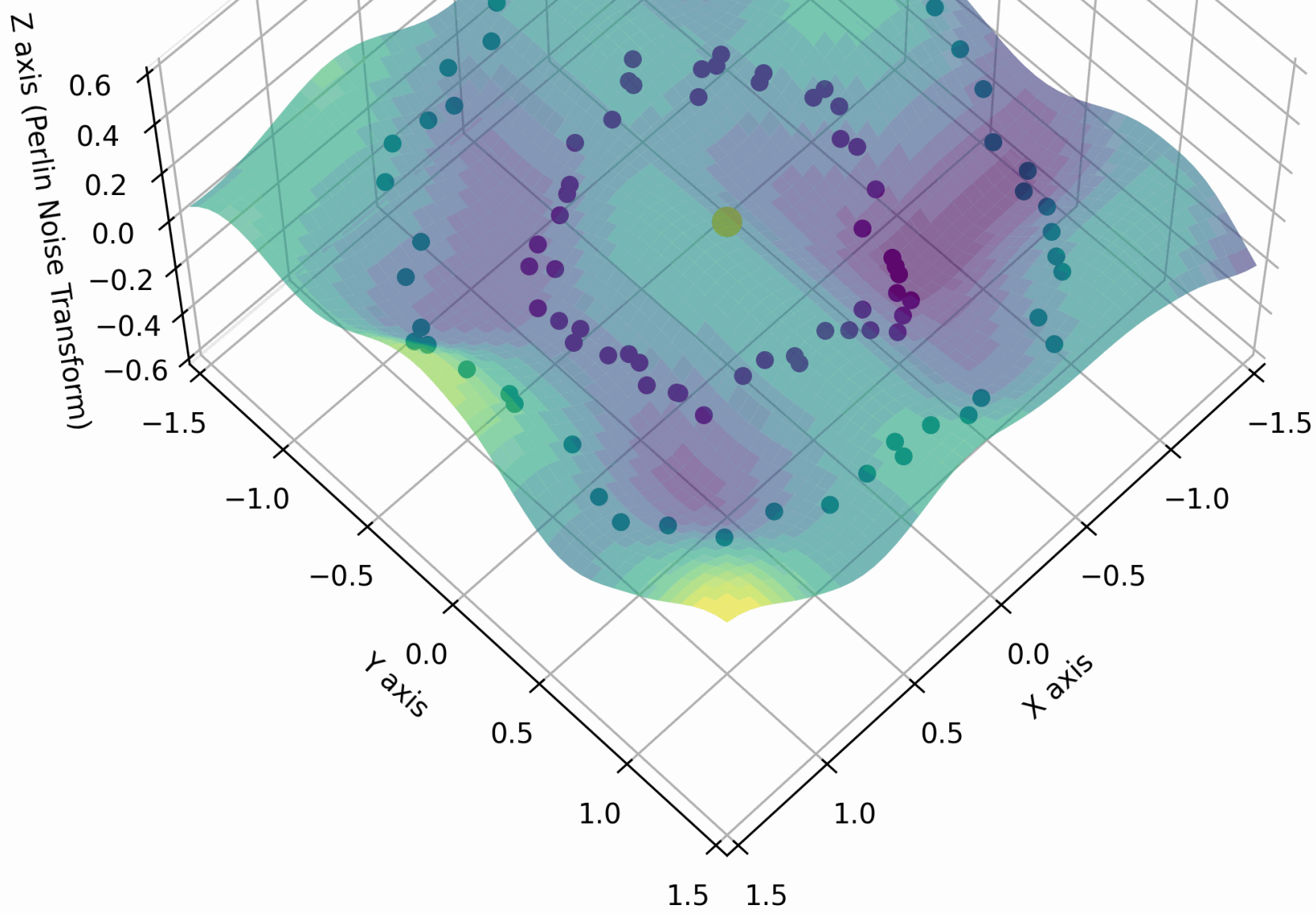
Searching for a non-linear transformation
of the embedding space that allows linear
seperability

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

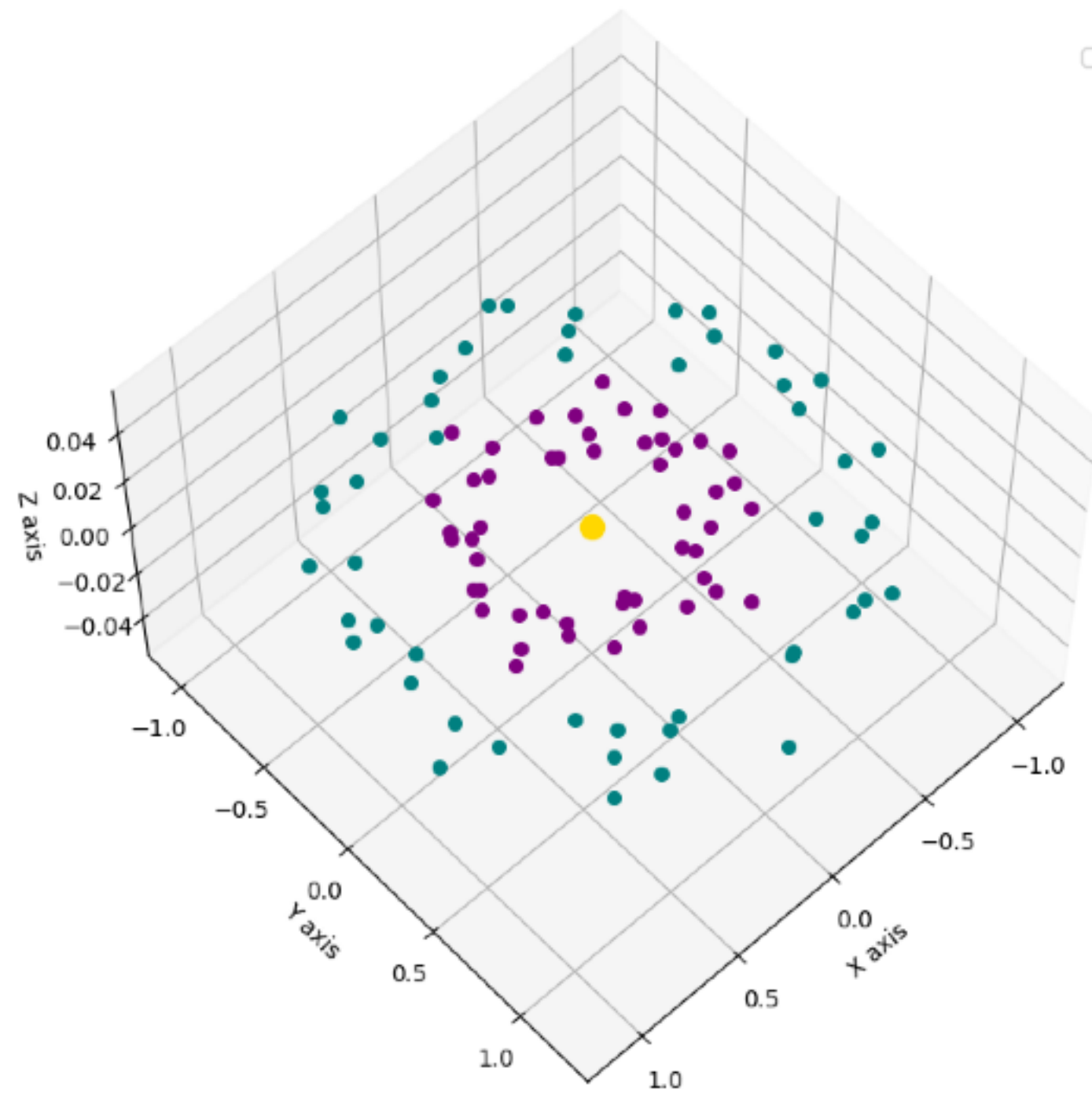
Dynamic Perlin Noise Transformation in 3D



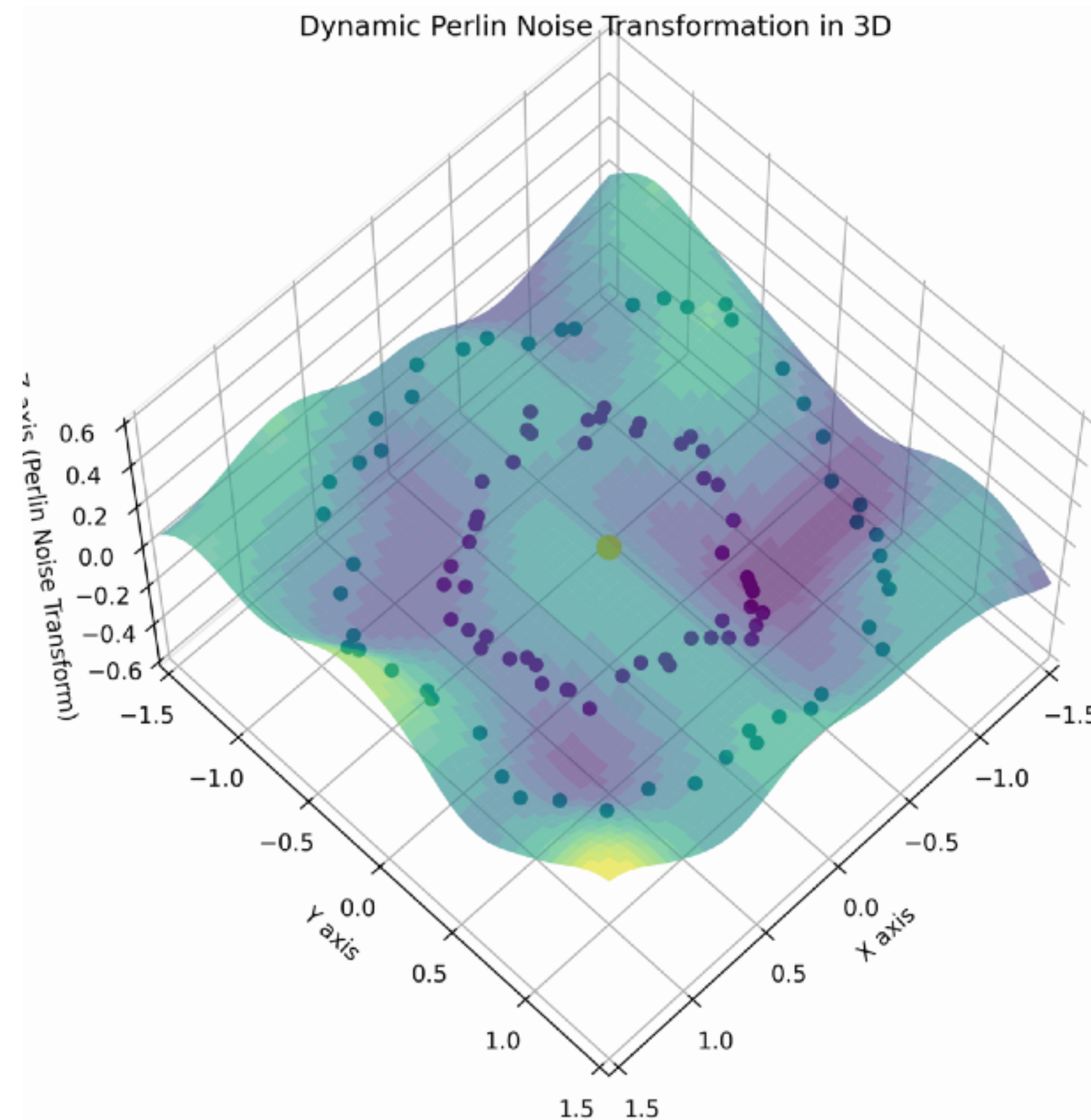
Dynamic Perlin Noise Transformation in 3D



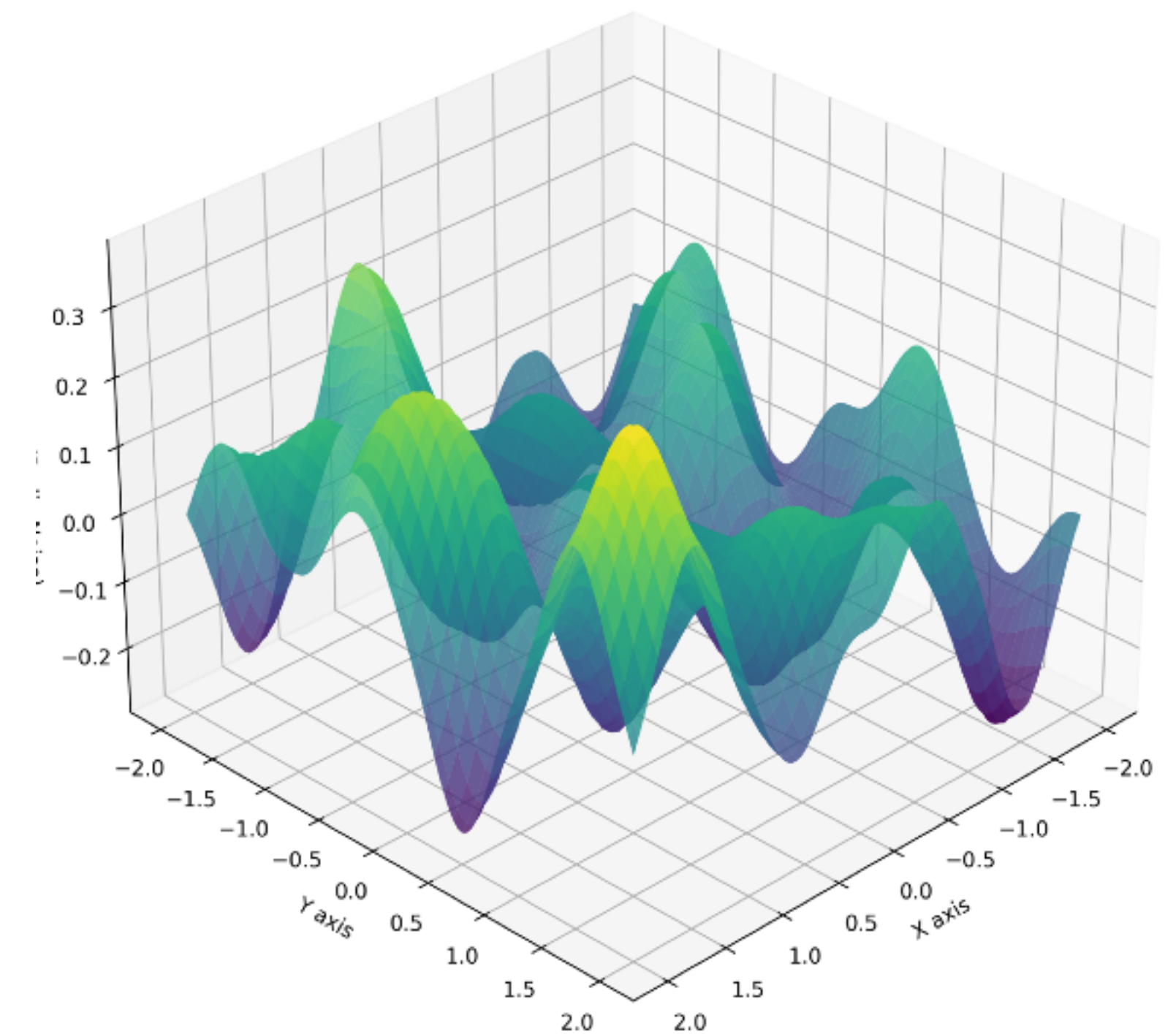
How to solve the non-linearity problem?



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

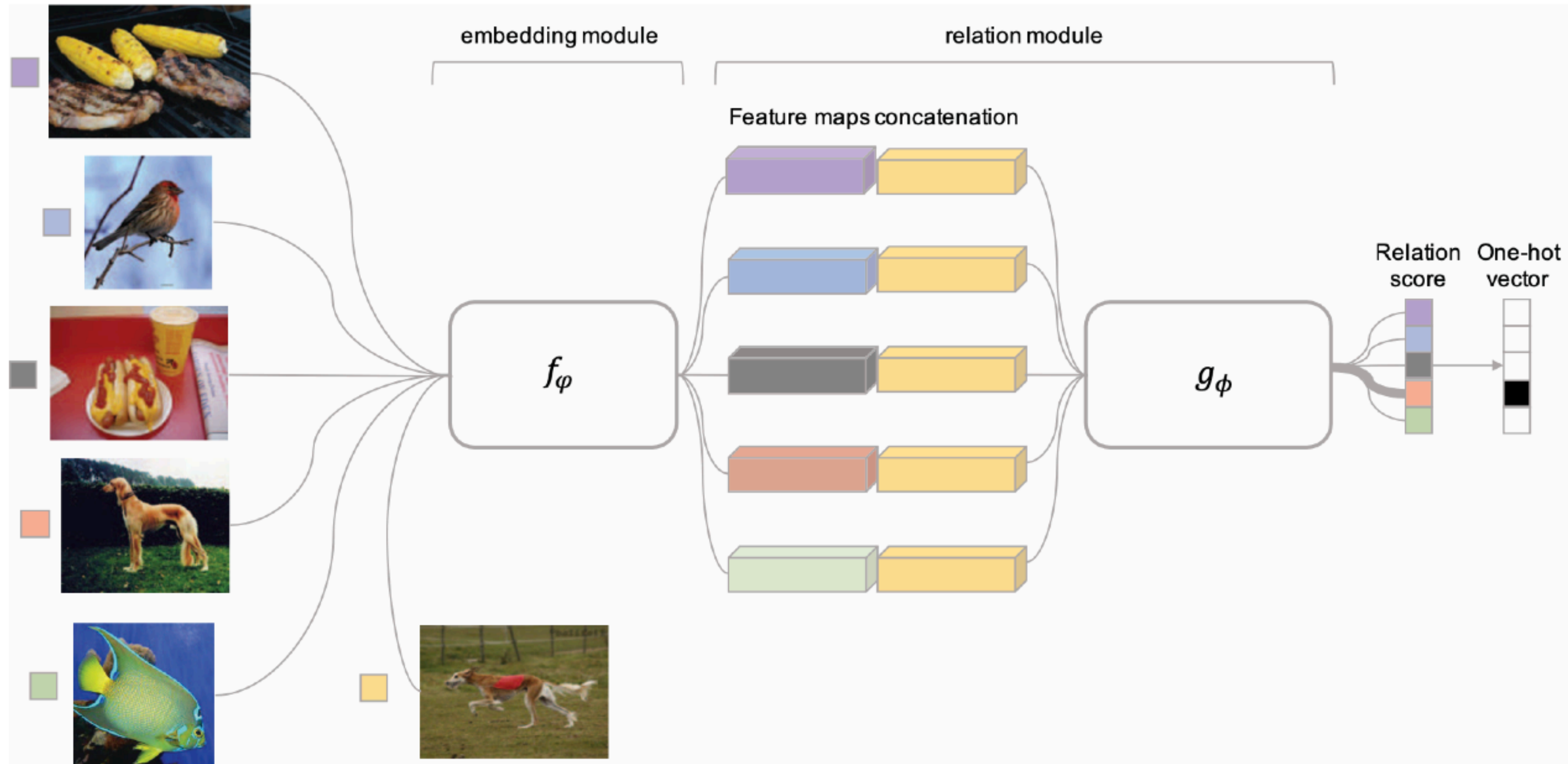


Figure 1: Relation Network architecture for a 5-way 1-shot problem with one query example.