

Copilot

I apologize for the confusion. The Slerp function requires an instance of Rotation, not a list of Rotation instances. You can create a Rotation instance from multiple rotation matrices by using the concatenate method of the Rotation class. Here's how you can modify the code:

```
# Create a rotation matrix that aligns the z-axis with the key direction for each key time
key_rot = [sp.spatial.transform.Rotation.align_vectors(
    np.array([[0, 0, 1]]), # z-axis
    np.array([direction]) # key direction
)[0] for direction in key_direction]

# Concatenate the rotations into a single Rotation instance
key_rot = sp.spatial.transform.Rotation.concatenate(key_rot)

slerp = sp.spatial.transform.Slerp(key_times, key_rot)
```

In this modified code, key_rot is a list of Rotation objects, and these are concatenated into a single Rotation instance using the concatenate method. This Rotation instance is then passed to the Slerp function.

I hope this helps! Let me know if you have any other questions. 😊