## **Copilot**

I apologize for the confusion. The error message is indicating that the from\_rotvec function expects a rotation vector of shape (3,) or (N, 3), but it received a vector of shape (18,). This is because the as\_rotvec function returns a rotation vector of shape (3,) for each rotation, and concatenating these vectors results in a vector of shape (18,).

Instead of concatenating the rotation vectors, you should keep them as a list of rotations. 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]
slerp = sp.spatial.transform.Slerp(key_times, key_rot)
```

In this modified code, key\_rot is a list of Rotation objects, and this list is directly passed to the Slerp function. This should resolve the error.

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

