

## Copilot

I apologize for the confusion. The error message is indicating that the `Slerp` function requires a sequence of at least two rotations. The `align_vectors` function returns a single rotation that aligns the z-axis with the key direction.

To resolve this, you can create a sequence of rotations for each key time. 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, a rotation is created for each key direction, resulting in a sequence of rotations. This sequence is then passed to the `Slerp` function.

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