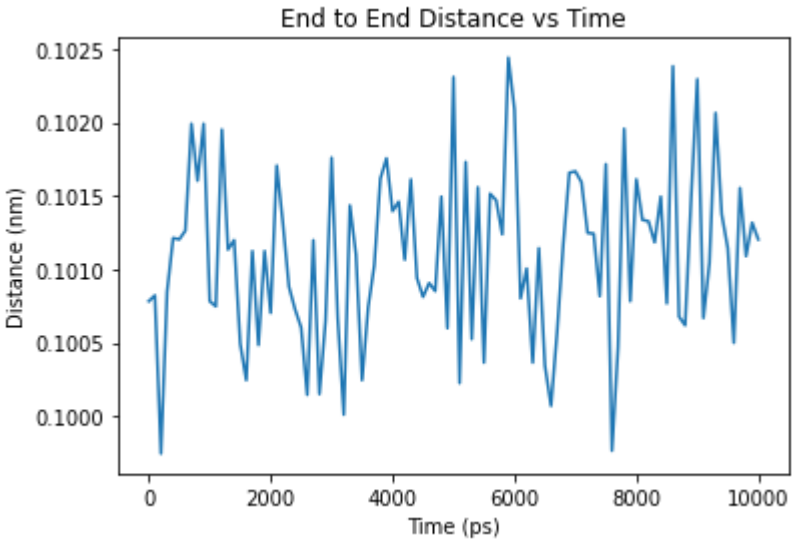
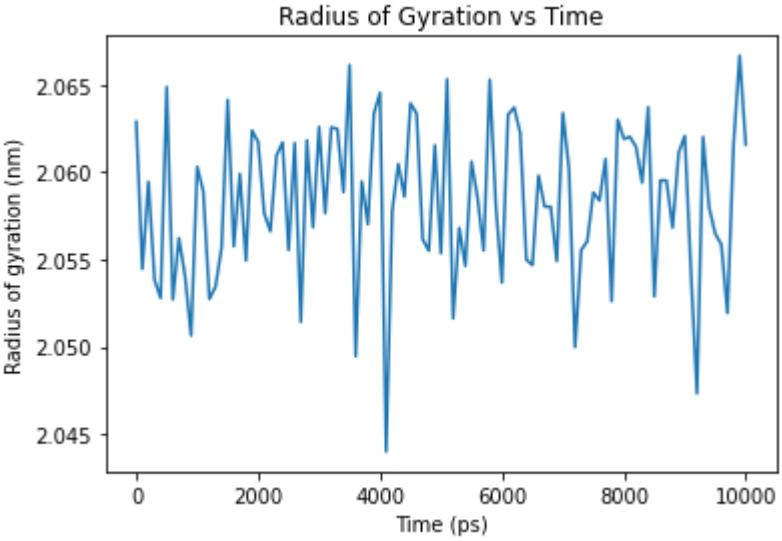
In [24]:
```
#import Modules
import numpy as np
import matplotlib.pyplot as plt
import mdtraj as md

#Load xtc Files
traj = md.load_xtc('trp_cage_fit.xtc', top='step5_9.gro')

# Plot End to End Distance against Time, with title
plt.plot(traj.time, md.compute_distances(traj, [[0, 1]]))
plt.xlabel('Time (ps)')
plt.ylabel('Distance (nm)')
plt.title('End to End Distance vs Time')
plt.show()

# Plot Radius of Gyration against Time
plt.plot(traj.time, md.compute_rg(traj))
plt.xlabel('Time (ps)')
plt.ylabel('Radius of gyration (nm)')
plt.title('Radius of Gyration vs Time')
plt.show()
```





In [ ]: