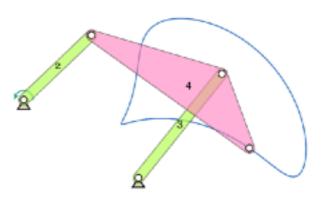
## Representation Learning of Linkage Trajectories

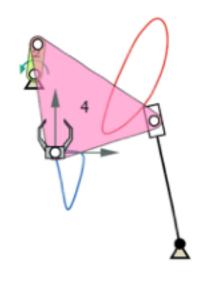
- Learn Salient Features of Linkage Trajectories
- Given an unknown trajectory, recognize the potential linkage type.

Six-Bar Linkage

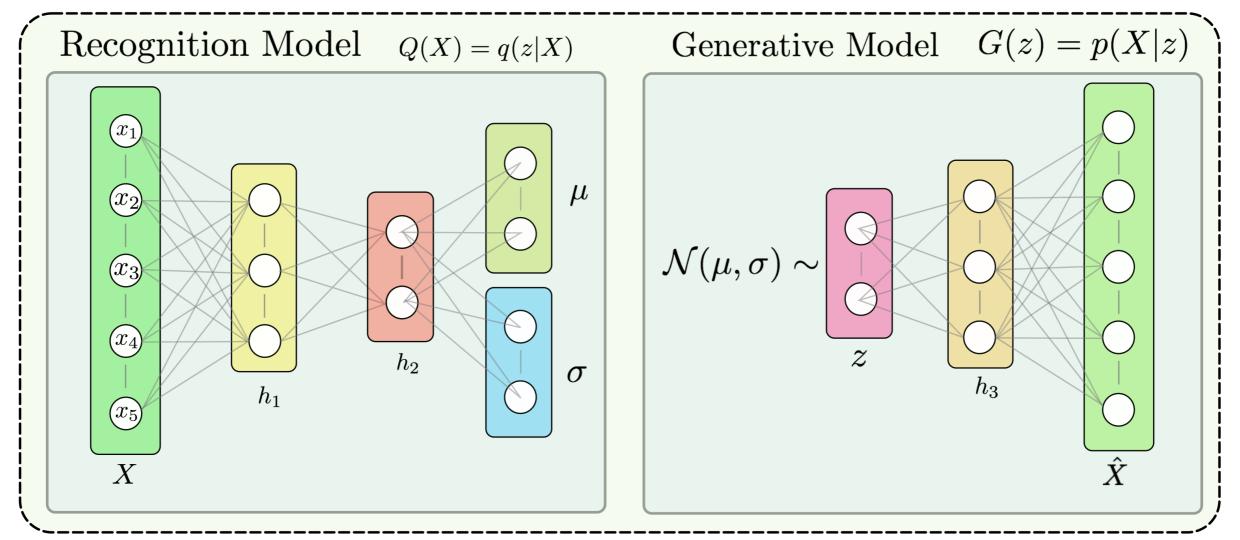
5 6 8 Four-R Linkage



Slider Crank Linkage



## Variational Auto Encoder



## Overserved Variable = X

- X can be Coupler Trajectories or Entire Linkage
- X is Generated by a Natural Process, involving an unobserved continuous hidden variable z