## Offline RL x Imitation Learning

Use imitation learning to guide and kickstart rl.

- ➤ Two papers (offline: [Wu et al. 2019]) (online: [Huang et al., 2021])
  - Both use a behavior policy to guide learning
  - first (offline) uses policy derived from dataset
  - uses kernel MMD, KL-divergence or Wasserstein-distance as policy distance metric
  - second (online) utilizes policy learned by behavioral cloning from experts
  - guides rl algorithm via KL-divergence or reward penalty
- lacktriangle Less exploration needed ightarrow smaller dataset possible
- lacktriangle offline ightarrow helps algorithm to stay in distribution
- → more useful in model-based learning