

TRAINING

01

Reference teacher

Object state & future motion
SONIC-style hand policy



02

Online action labels

Teacher supervision at
student-visited states



03

Mixed DAgger / PPO

Action imitation & task reward
Privileged training critic

FINAL STUDENT

INPUT

Local feedback

Proprioception & tactile history
Previous actions



COMMAND

Cluster + phase

Grasp family & execution stage
Recurrent hand controller



OUTPUT

Finger control

Decode & smooth targets
Apply physical joint limits

The student executes the rollout; the teacher labels its visited states.