Algorithm 1 Motor Babbling Training

```
Initialize start_thetas
for n_trials in (1,000, 2,000, 4,000, 8,000, 16,000, 32,000) do
    function TrainReach(n_trial)
        for i = 1 to n_trial do
            target_thetas, target_coordinate ← GenerateRandomTarget()
            Simulate(50ms)
            CM.r = PopulationCode(target_thetas)
            PM.r = BivariateGauss(target_coordinate)
            S1.r = BivariateGauss(start_thetas)
            SNc.r = 1.0
            Simulate(450ms)
            start_thetas ← target_thetas
            ResetNetwork()
        end for
    end function
    function TestReach(trials = 50) return error
    end function
end for
```