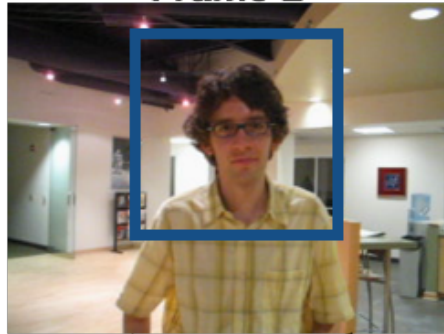


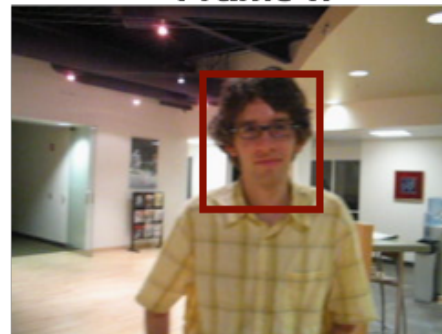
**Initialization
Frame 1**



**Translation Estimation
Frame 2**



**Scale Estimation
Frame n**



**Translation Estimation
Frame $n+1$**



**Particle Filter
Initialization**

**Particle Filter
Prior Update**

**Particle Filter
Posterior
Update**

**Particle Filter
Prior Update**

**Particle Filter
Posterior
Update**

**Particle Filter
Prior Update**

**Particle Filter
Posterior
Update**