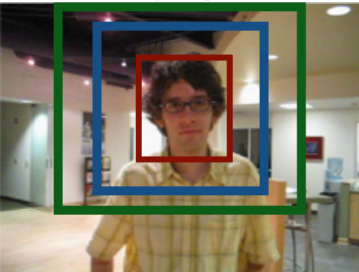


**Initialization
Frame 1**



**Particle Filter
Initialization**

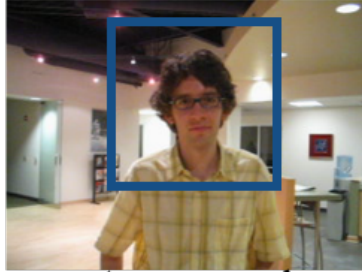
**Translation Estimation
Frame 2 and Frame 3**



**Particle Filter
Prior Update**

**Particle Filter
Posterior
Update**

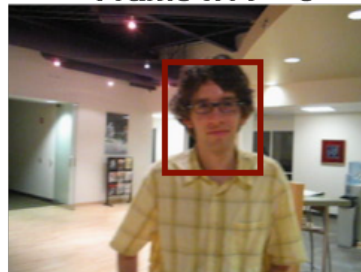
**Translation Estimation
Frame 4 and Frame 5**



**Particle Filter
Prior Update**

**Particle Filter
Posterior
Update**

**Scale Estimation
Frame $n+1 = 6$**



**Particle Filter
Prior Update**

**Particle Filter
Posterior
Update**

**Translation Estimation
Frame $n+2 = 7$**



**Particle Filter
Prior Update**

**Particle Filter
Posterior
Update**

...