## Turning the bike wheel...

- Since there is no net external torque acting on the student-stool system, angular momentum is conserved.
  - → Remember, L has a direction as well as a magnitude!

Initially: 
$$L_{INI} = L_{W,I} = + 25 \text{ kg m}^2/\text{s}$$

Finally: 
$$L_{FIN} = L_{W,F} + L_S$$

$$= -25 kg m^2/s + L_s$$



