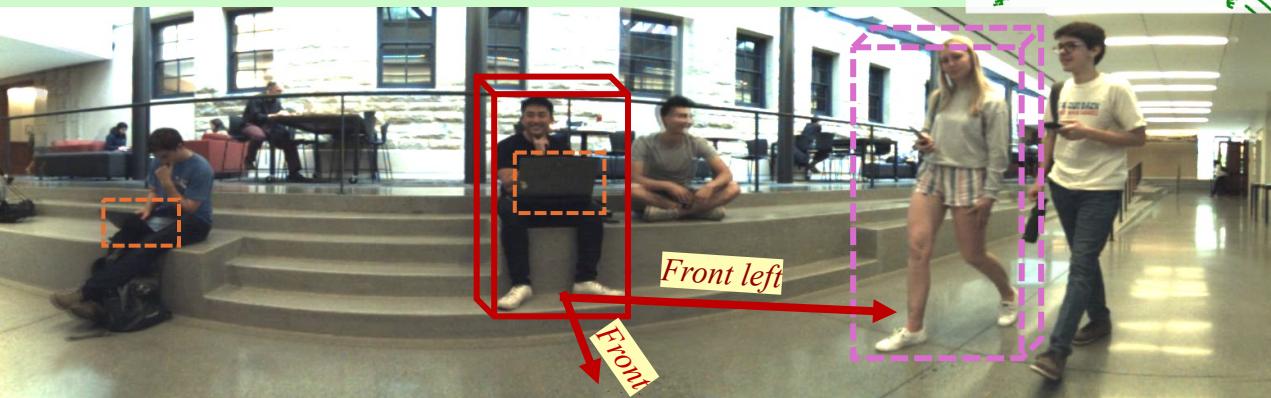


JRDB-Reasoning: A Difficulty-Graded Benchmark for Visual Reasoning in Robotics

(a) -Find a male Asian person who is **sitting** and **working with a laptop**, with a **female** positioned to his **left front at a close distance**.



(b) -Count the number of **female** persons who **are looking at the robot (me)**.



Options: 9 , 6 , 4 , 0 , 1 , 3 , 2 , 5 , 8 , 11 , 7 , 10 , 14 , 13 . Answer : 2

(c) -Track **Asian** persons who are **walking** during 45 to 90 seconds.



(d) -What is the geometric location of the bicycle relative to me (the robot) between 31.8 and 33.07 seconds?



Options: [(right, front, left),(back ,left, fornt left),.....] Answer : left, front, right

(e) -Locate/track a **male** person who is **standing alone**, **carrying a bag**, and a **female** person is located to his **back**.



Human Object Interaction: •-----• -sitting •-----• -holding •-----• -touching •-----• -carrying •-----• -standing