

MARGA VSAXAN	419	118

- (x, Y) discrete r.v.
- Joint PMF P(x,y)
- Conditional PMF of Y gives X=x is $P_{X|Y}=y(x)=\frac{P(x,y)}{P_{P}(y)}$, XES_{X}

Connection w/ 5 2:

$$\frac{P(Y|X) = \frac{P(X|Y)}{P(X|X)} = \frac{P(A \cap B)}{P(A)} = \frac{P(B|A)}{P(B|A)}$$



P(Y)x) = 2(4)	+	is this	a	valid	Univerial	e point	?	why	3	Position	vity V	
\(\frac{\range P_{\range \chi = \kappa \left \gamma \gamma}{\range \range P_{\range \chi = \kappa \left \gamma \gamma					1 1				7			
JE Sy	7E5	· Px (a)		Pr (x)	YEY	11	9	110				

- Calculating conditional probability can be done as
- long as you have a joint PMF. From p(x,y) you can
- get the Px (x) & Px(y) w/ these three conditions, the
- probabilities can be written.

Y

	Tab	le:									
	0 1 1 2		2	3							
	0	0.84	0.03	0.02	10.0	Find the conditional PMF of Y					
X	1	0.06	0.61	0.008	0.002	given X=0					
	2	0-01	0.005	0.009	100.0	facilities to the state of the					
	-				+60						





