


 $V(\underline{v}, \underline{p})$

v	p
v_1	$[t_0, t_4)$
v_2	$[t_1, t_5)$
v_3	$[t_0, t_5)$

 $E(\underline{v1}, \underline{v2}, \underline{p})$

$v1$	$v2$	p
v_1	v_2	$[t_1, t_3)$
v_2	v_3	$[t_4, t_5)$

 $A^V(\underline{v}, \underline{p}, a: (\text{name}, \text{school}))$

v	p	$a: (\text{name}, \text{school})$
v_1	$[t_0, t_4)$	(Alice, Drexel)
v_2	$[t_1, t_2)$	(Bob, UPenn)
v_2	$[t_2, t_5)$	(Bob, CMU)
v_3	$[t_0, t_5)$	(Cathy, Drexel)

 $A^E(\underline{v1}, \underline{v2}, \underline{p}, \text{score})$

$v1$	$v2$	p	score
v_1	v_2	$[t_1, t_3)$	3
v_2	v_3	$[t_4, t_5)$	4