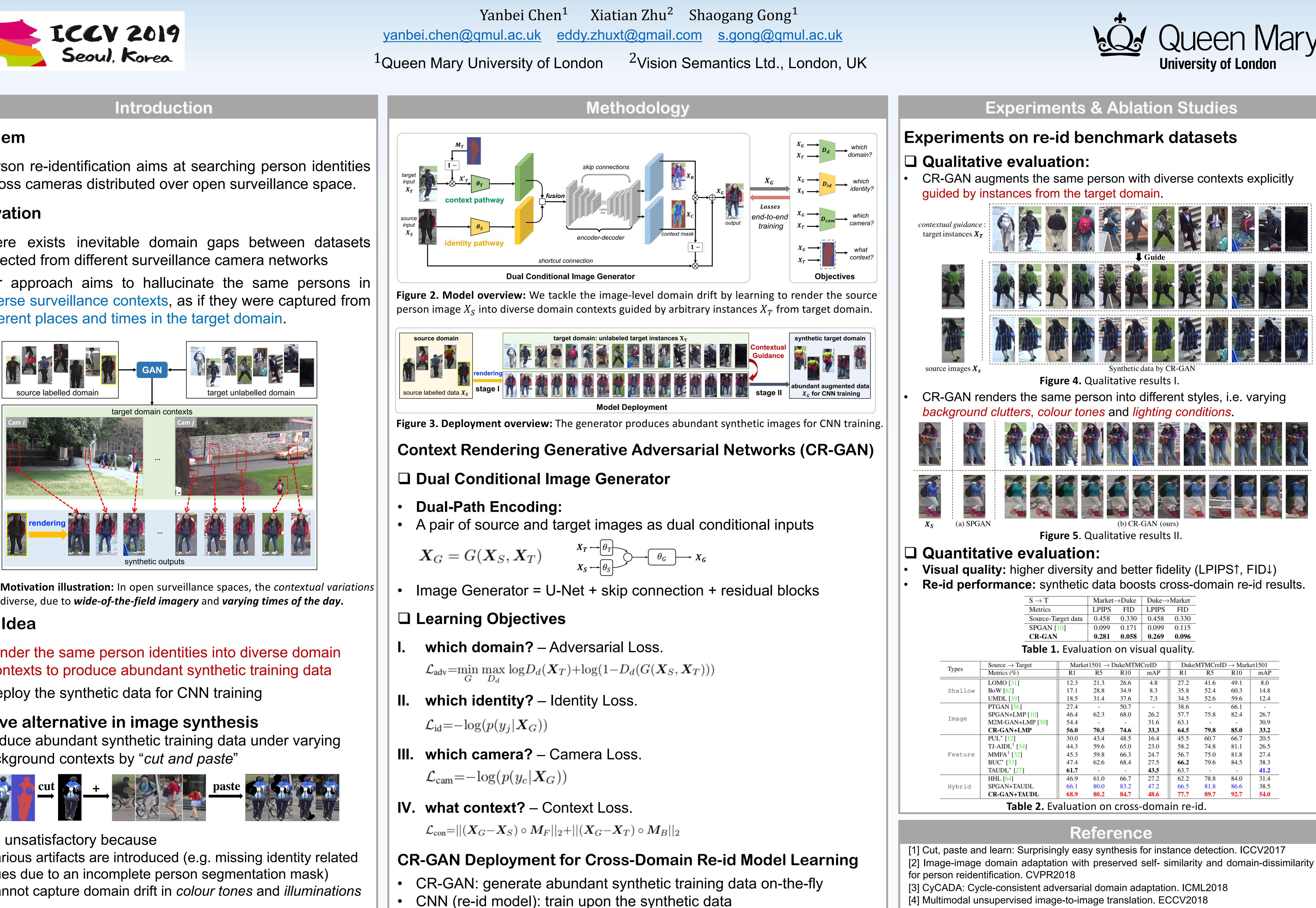
Instance-Guided Context Rendering for Cross-Domain Person Re-Identification



Problem

Motivation

- different places and times in the target domain.

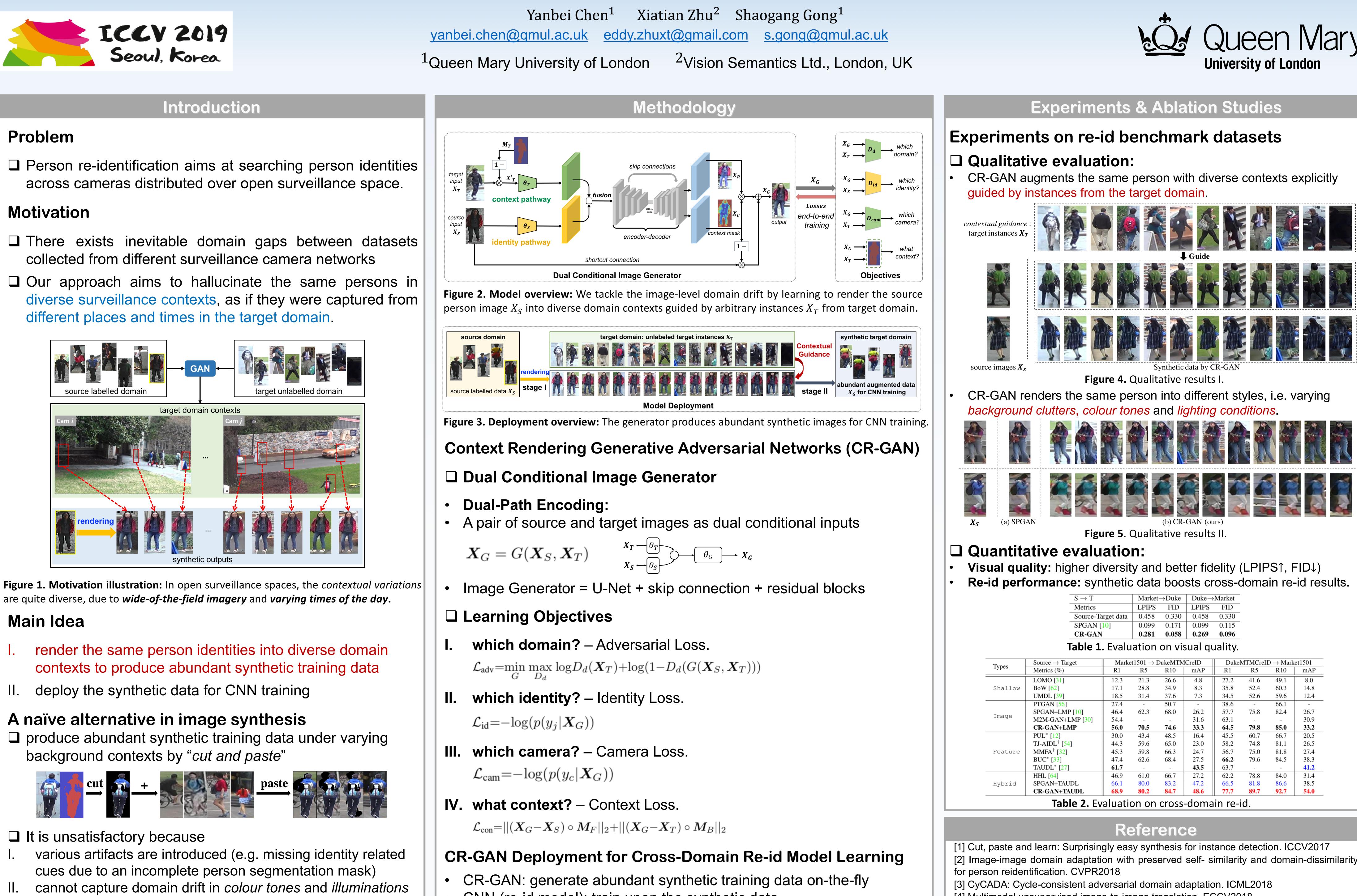


Main Idea

- deploy the synthetic data for CNN training

A naïve alternative in image synthesis

background contexts by "cut and paste"



□ It is unsatisfactory because



	Market→Duke		Duke→Market		
	LPIPS	FID	LPIPS	FID	
arget data	0.458	0.330	0.458	0.330	
10]	0.099	0.171	0.099	0.115	
[0.281	0.058	0.269	0.096	

	Market1501 \rightarrow DukeMTMCreID				DukeMTMCreID \rightarrow Market1501			
	R1	R5	R10	mAP	R1	R5	R10	mAP
	12.3	21.3	26.6	4.8	27.2	41.6	49.1	8.0
	17.1	28.8	34.9	8.3	35.8	52.4	60.3	14.8
	18.5	31.4	37.6	7.3	34.5	52.6	59.6	12.4
T	27.4	-	50.7	-	38.6	-	66.1	-
	46.4	62.3	68.0	26.2	57.7	75.8	82.4	26.7
	54.4	-	-	31.6	63.1	-	-	30.9
	56.0	70.5	74.6	33.3	64.5	79.8	85.0	33.2
	30.0	43.4	48.5	16.4	45.5	60.7	66.7	20.5
	44.3	59.6	65.0	23.0	58.2	74.8	81.1	26.5
	45.3	59.8	66.3	24.7	56.7	75.0	81.8	27.4
	47.4	62.6	68.4	27.5	66.2	79.6	84.5	38.3
	61.7	-	-	43.5	63.7	-	-	41.2
T	46.9	61.0	66.7	27.2	62.2	78.8	84.0	31.4
	66.1	80.0	83.2	47.2	66.5	81.8	86.6	38.5
	68.9	80.2	84.7	48.6	77.7	89.7	92.7	54.0

[4] Multimodal unsupervised image-to-image translation. ECCV2018