# A Appendix

In this section, we showcase the results of our method and present several failure modes discovered by UDIS. We use our method to discover potential biases under different settings described in Section 4.1.

# A.1 Results on CelebA - Biased Black Hair Setting

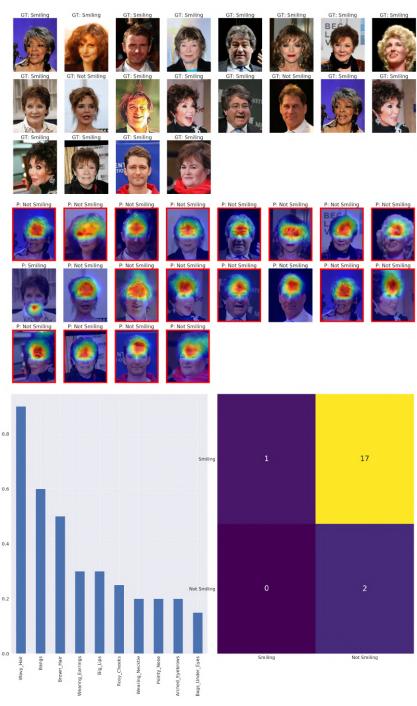
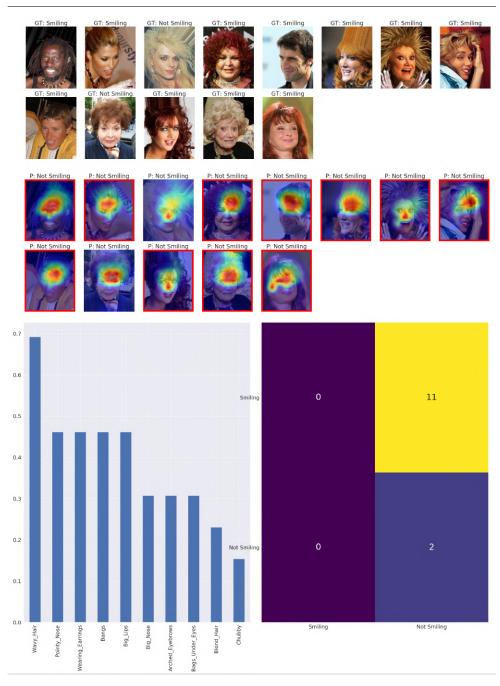


Figure 6: Cluster #1





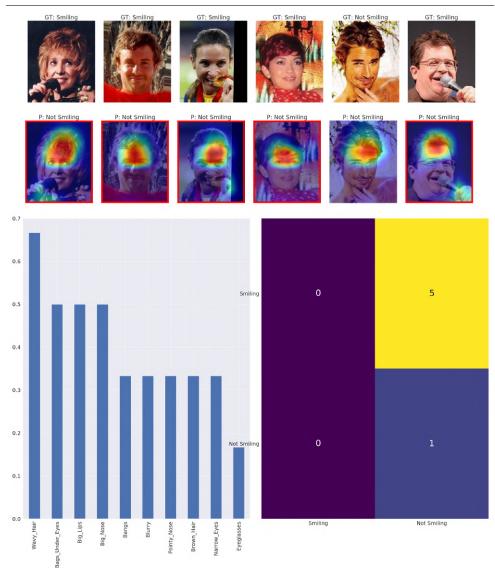
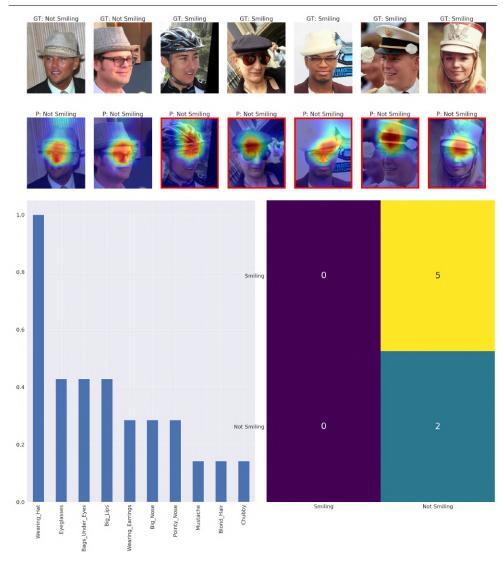
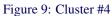


Figure 8: Cluster #3





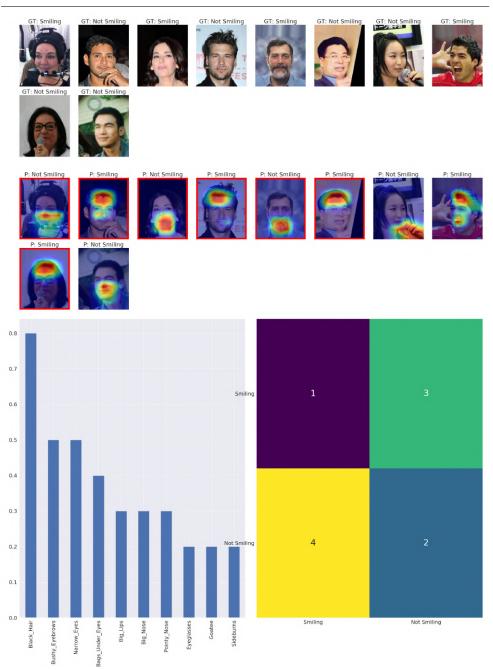


Figure 10: Cluster #5



Figure 11: Cluster #6

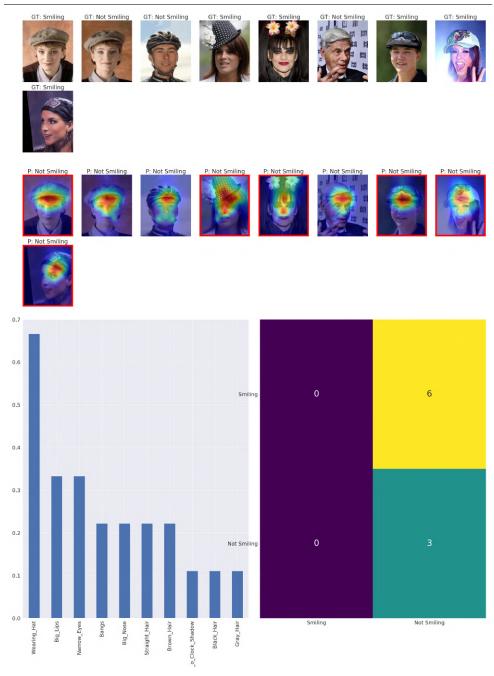


Figure 12: Cluster #7

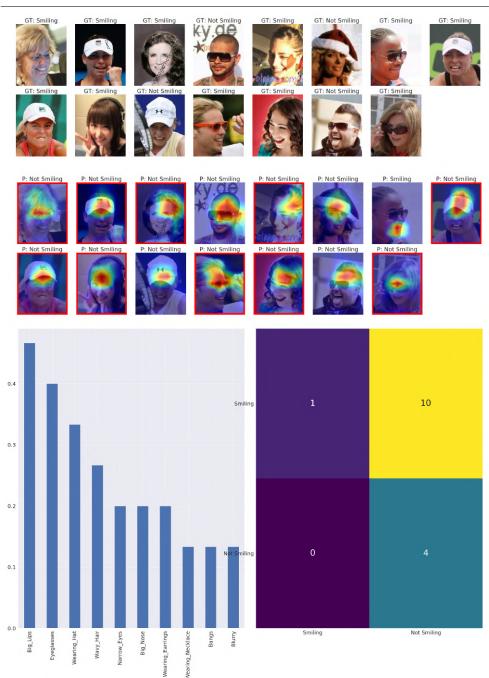






Figure 14: Cluster #9

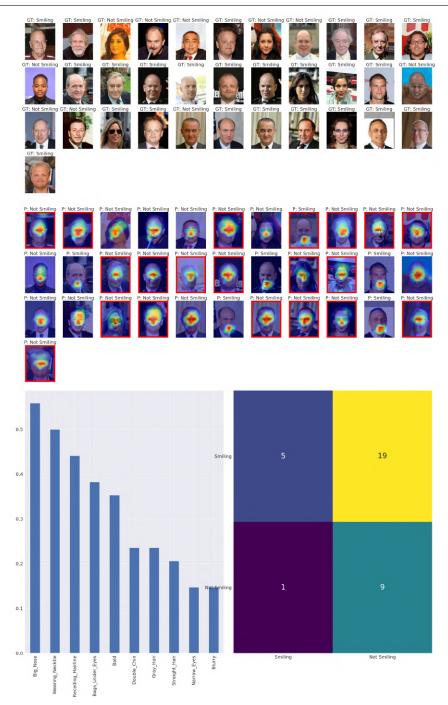


Figure 15: Cluster #10

# A.2 Results on CelebA



Figure 16: Cluster #1

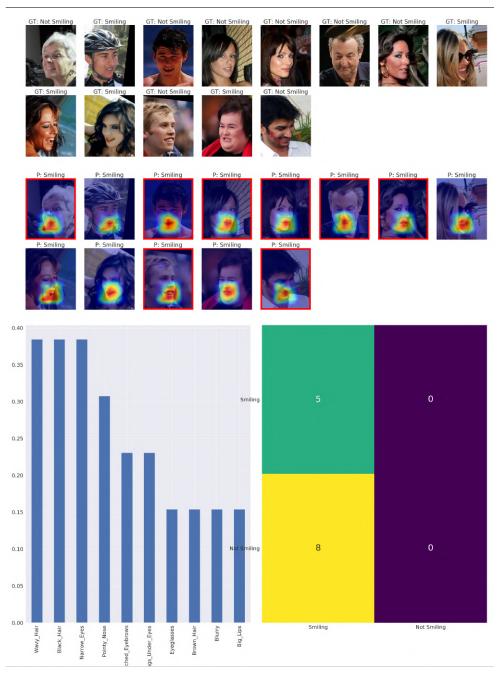


Figure 17: Cluster #2



Figure 18: Cluster #3



Figure 19: Cluster #4

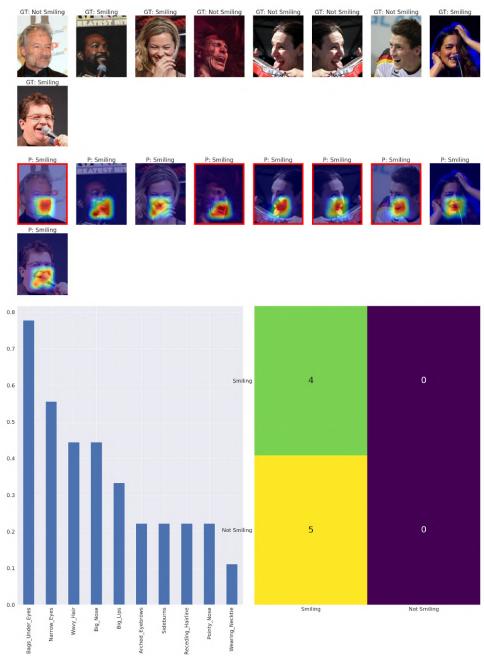


Figure 20: Cluster #5

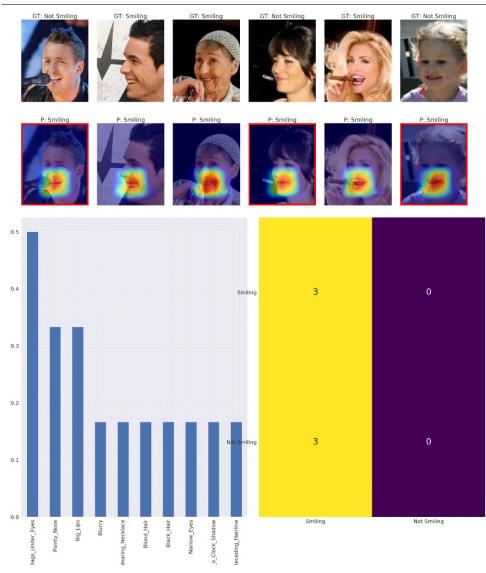
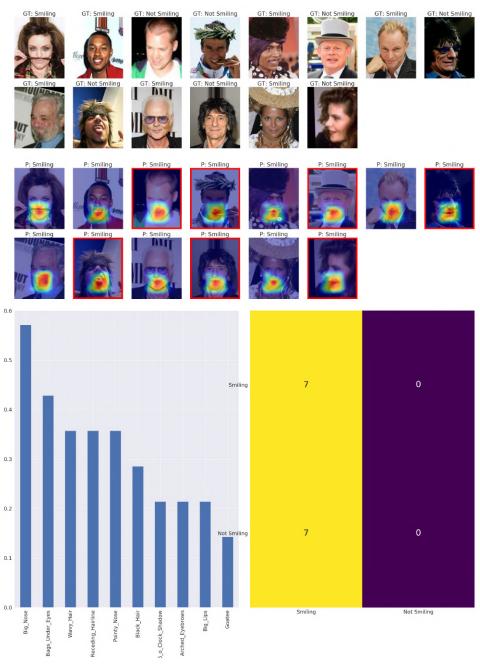
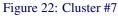
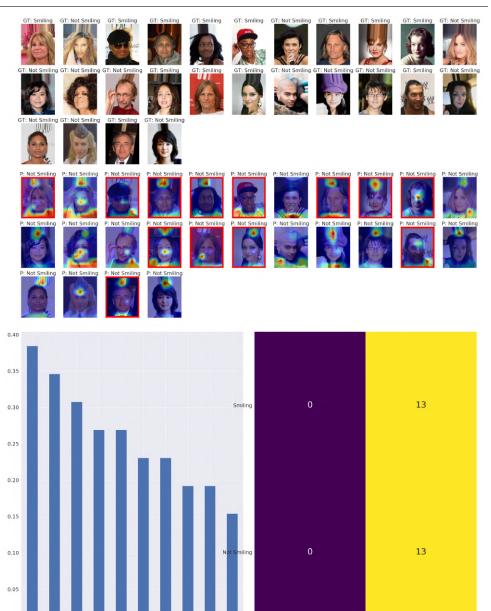


Figure 21: Cluster #6







### Figure 23: Cluster #8

Eyeglasses

Smiling

Not Smiling

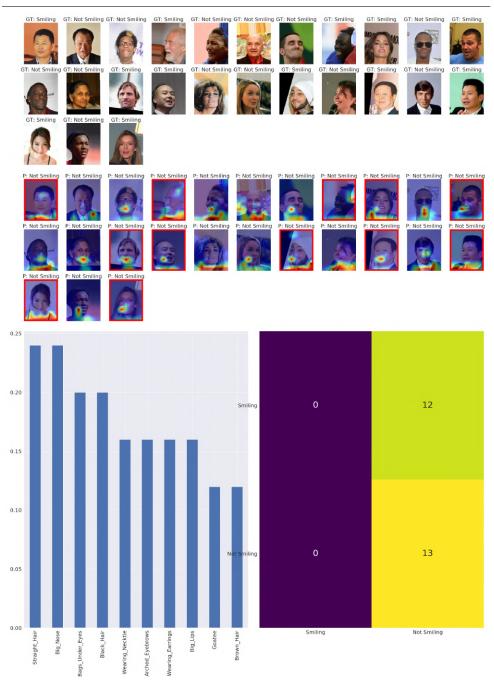
0.00

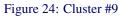
Big\_Lips

Arched\_Eyebrows

Big\_Nose Wearing\_Earrings

Wavy\_Hair Bags\_Under\_Eyes Black\_Hair Bangs Nearing\_Necklace





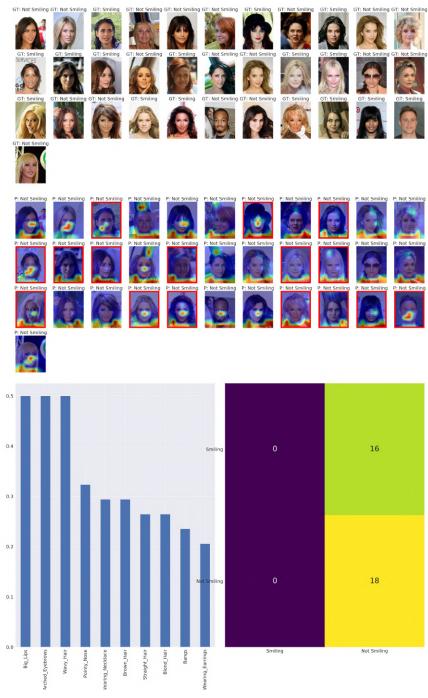


Figure 25: Cluster #10

## A.3 Results on COCO

A.3.1 Predicted category : *cup* 

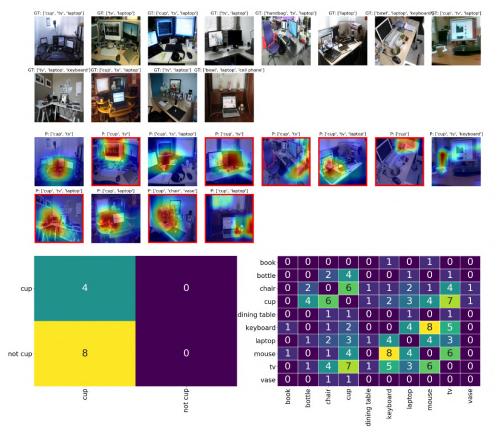


Figure 26: Cluster #1

### A.3.2 Predicted category : bed

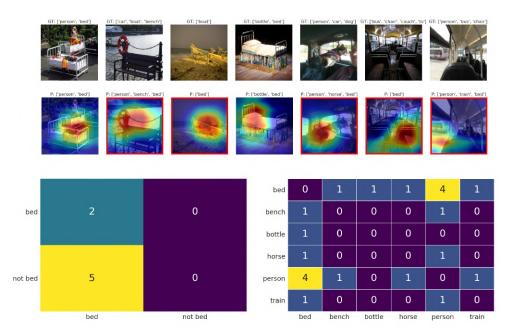
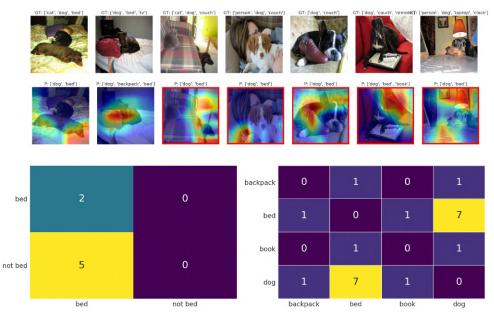
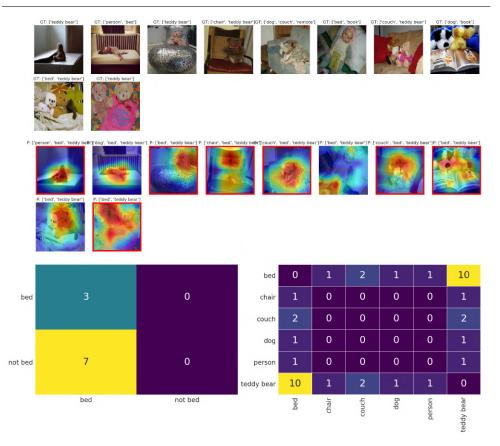


Figure 27: Cluster #1



### Figure 28: Cluster #2





### A.3.3 Predicted category : person

	Tri (cup', tv. 'laptop')	GT. ['tv, 'laptop']	GT: ['cup', 'tv, 'lastop1	GT. [Tv, taptop	GT: ['handl	ag', 'tv', 'lap	otop']	GT: ['laptop	") GT; ["t	oowl', 'laptop	*, 'keyboard	NST: (reup), r	v', 'laptop']
	P: ('cup', 'ty') P: ('cup', 'ty', 'dottop') P: ('cup', 'ty', 'dottop')	P: ['uu', 'tv]	P: ('cup', 'tv, 'laptop')	P: ['cup', 'tv']	P:[	cup', 'tv']	P: D	up', 'tv', 'la	ptop']	P: ("cup	14	P: ('cup', itv'	'keyboard']
	5		0		bed	0	0	3	1	0	0	2	0
person not person					book	0	0 2	2	0	0	1	0 9	1
					cat couch	1	2	0	1	0	2	9	2
	5		0		dog	0	0	0	0	0	0	1	0
					laptop	0	1	2	0	0	0	2	0
					person	2	0	9	1	1	2	0	2
					tv	0	1	2	0	0	0	2	0
	perso	on	not perso	n		bed	book	cat	couch	dop	laptop	person	4

