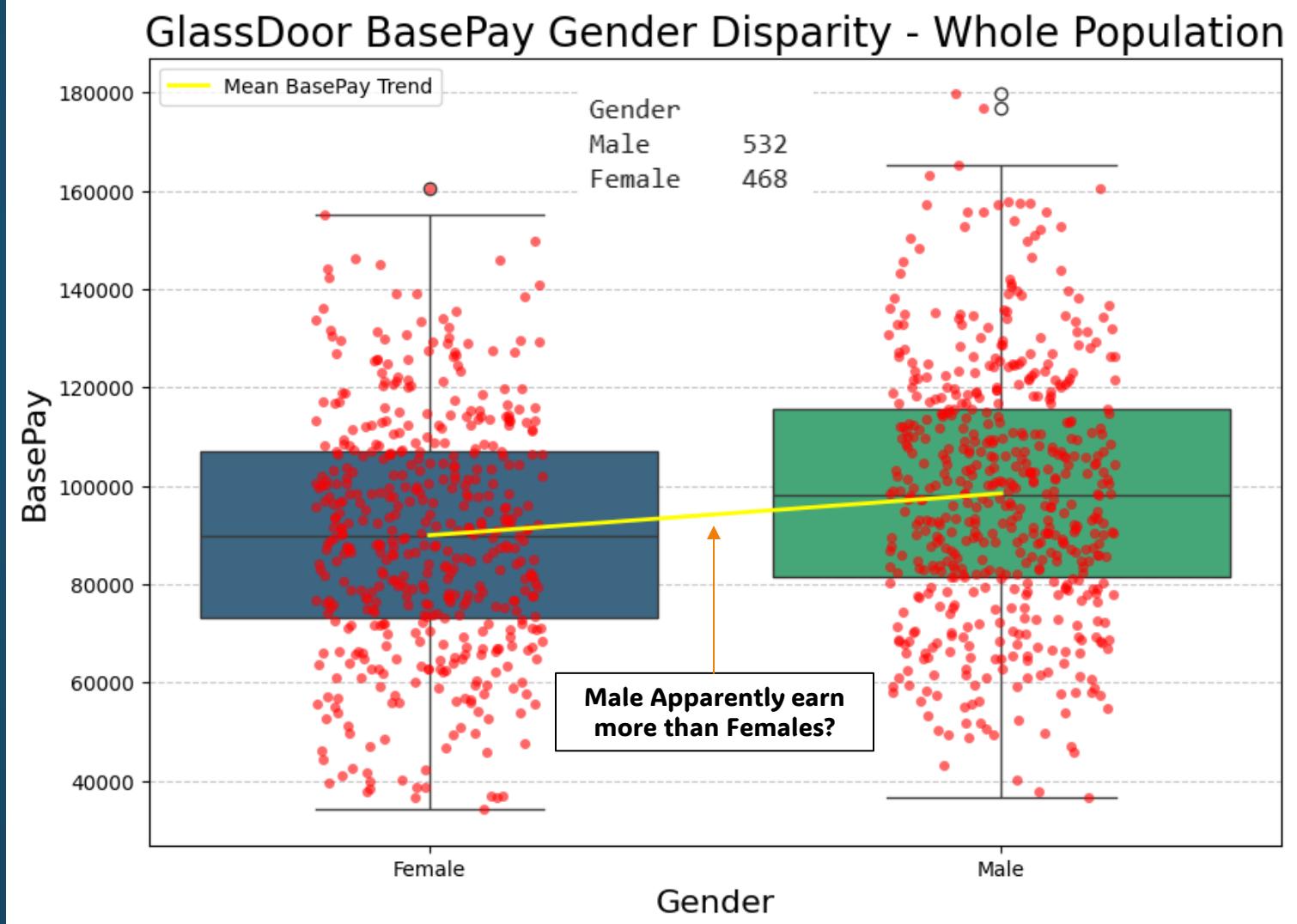
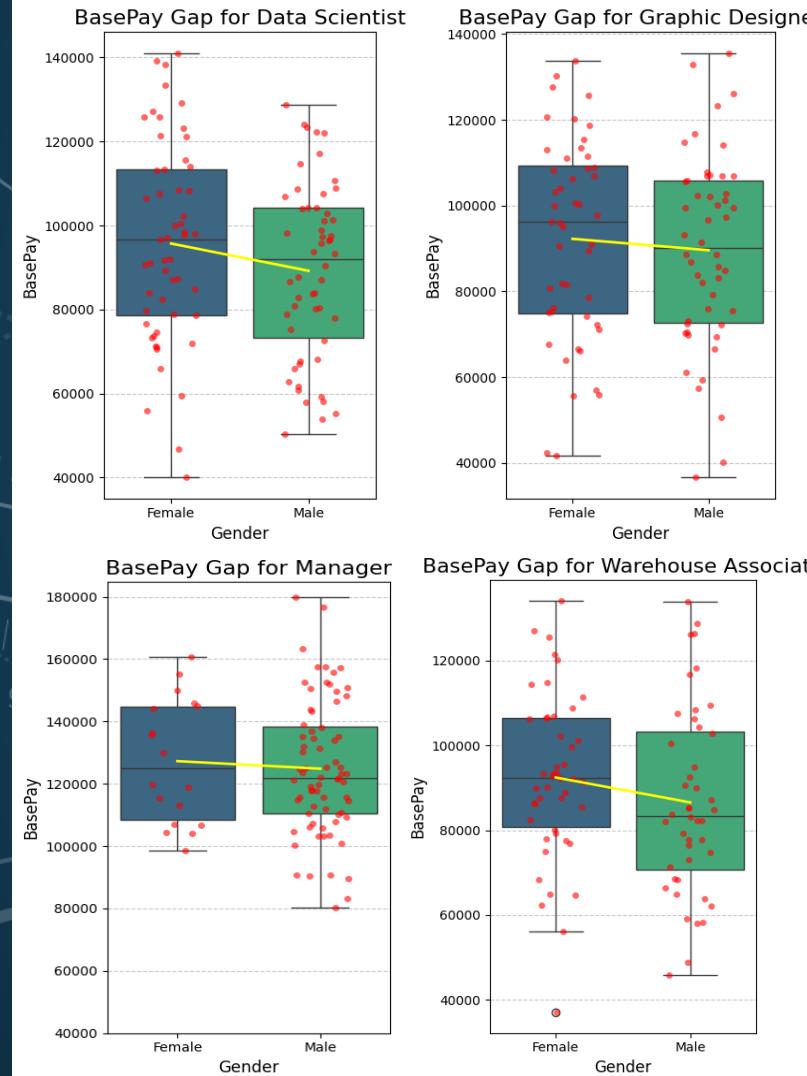


# Q: DOES THE GENDER PAY GAP CHANGE WHEN CONTROLLING FOR JOB TITLE?

[CHARLEY WAN]

[ASLIDDIN NURBOEV]



# UNCONTROLLED MODEL

```
Uncontrolled_Model = smf.ols('LogBasePay ~ MALE', data=grouped_data).fit()

# Print only the coefficient table of the regression model
print(Uncontrolled_Model.summary().tables[1])

=====
```

	coef	std err	t	P> t	[0.025	0.975]
Intercept	11.3665	0.013	867.999	0.000	11.341	11.392
MALE	0.0953	0.018	5.309	0.000	0.060	0.131

```
=====
```

# CONTROLLED MODEL

```
Controlled_Model = smf.ols('LogBasePay ~ MALE + JobTitle', data=grouped_data).fit()

# Print only the coefficient table of the regression model
print(Controlled_Model.summary().tables[1])

=====
```

	coef	std err	t	P> t	[0.025	0.975]
Intercept	11.4036	0.027	428.072	0.000	11.351	11.456
JobTitle[T.Driver]	-0.0319	0.037	-0.866	0.387	-0.104	0.040
JobTitle[T.Financial Analyst]	0.0330	0.035	0.933	0.351	-0.036	0.102
JobTitle[T.Graphic Designer]	-0.0205	0.036	-0.568	0.570	-0.092	0.050
JobTitle[T.IT]	-0.0260	0.036	-0.716	0.474	-0.097	0.045
JobTitle[T.Manager]	0.3234	0.037	8.650	0.000	0.250	0.397
JobTitle[T.Marketing Associate]	-0.1988	0.035	-5.627	0.000	-0.268	-0.129
JobTitle[T.Sales Associate]	0.0106	0.037	0.291	0.771	-0.061	0.082
JobTitle[T.Software Engineer]	0.1382	0.036	3.834	0.000	0.067	0.209
JobTitle[T.Warehouse Associate]	-0.0285	0.037	-0.771	0.441	-0.101	0.044
MALE	-0.0030	0.018	-0.165	0.869*	-0.039	0.033

```
=====
```