## Modeling Strategy

**INFO 370** 

## Learning Objectives

Discuss the insights from Notebook 4

Address questions about data science raised by the article

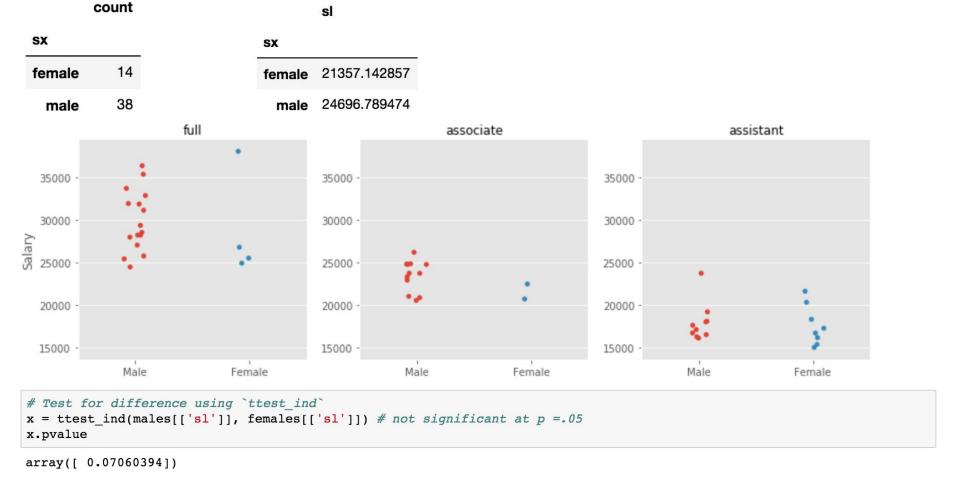
Discuss hierarchical (nested) models

Discuss assignment 3 (to be done in pairs)

Start working on Notebook 5, if there's time

## Notebook 4

Using the data/insights from your analysis, tell a detailed and insightful story about gender discrimination in the department.



What did this exercise reveal about gender discrimination in the department?

	coef	std err	t	P> t	[0.025	0.975]
Intercept	1.637e+04	757.573	21.615	0.000	1.49e+04	1.79e+04
sx[T.male]	-505.6541	843.489	-0.599	0.552	-2203.508	1192.200
rk[T.associate]	4253.7176	961.967	4.422	0.000	2317.379	6190.056
rk[T.full]	9508.1038	923.022	10.301	0.000	7650.157	1.14e+04
dg[T.masters]	314.4186	782.166	0.402	0.690	-1260.000	1888.837
yr	385.1491	77.415	4.975	0.000	229.322	540.977

## Reading Discussion

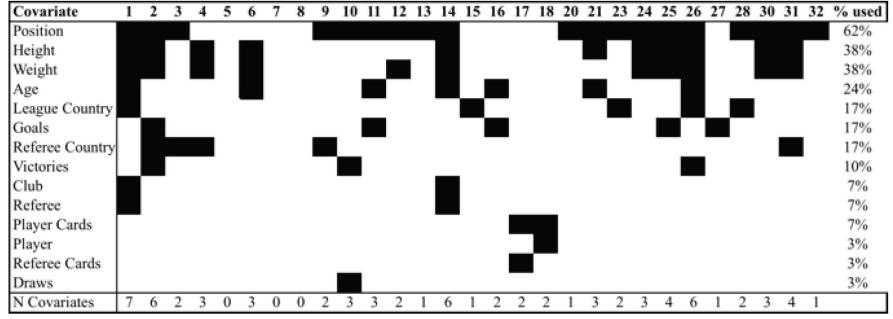
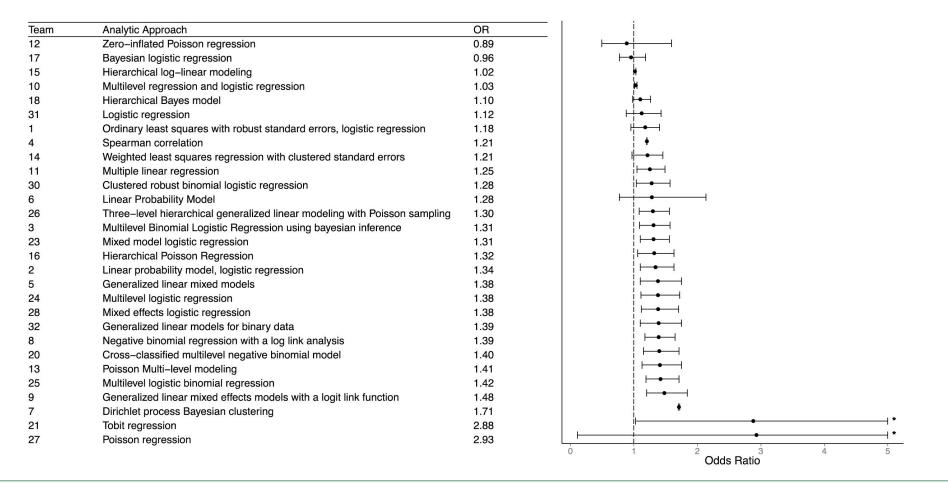
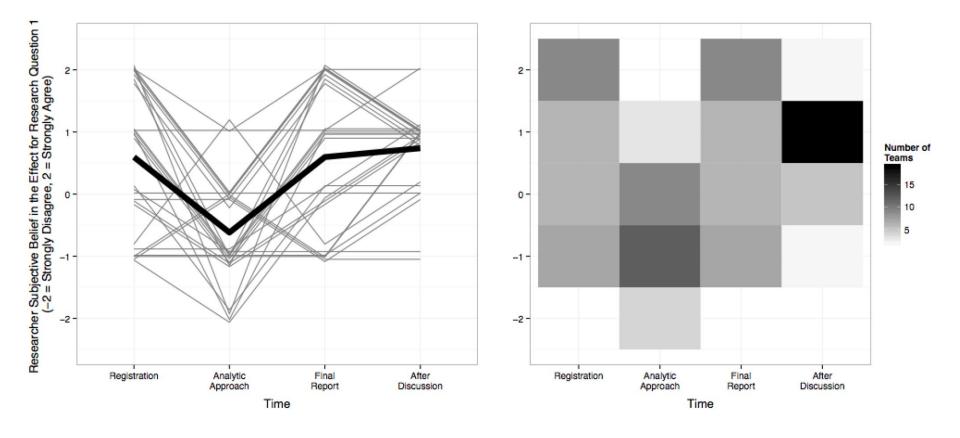


Table 2. This overview shows the covariates used by each team. Team numbers are listed on the top and covariates on the left. A shaded box indicates that the corresponding team used the covariate in their final model. The table is ordered by the frequency by which each covariate was used.

What does this mean? What does it mean we should do?

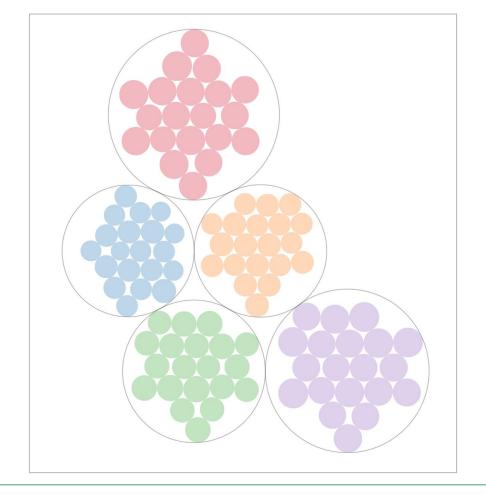


What does this mean? What does it mean we should do?



What does this mean? What does it mean we should do?

Hierarchical Models



# Assignment 3

## Notebook Set 5

nb-set-5

## Upcoming...

a3-modeling due *next Tuesday* 

Notebook 5 due Friday night

### Later this week

- Logistic regression