## Replicating Analysis and Descriptive Statisitcs

## Abbey Skinner

## Student Concerns and Perceived Challenges in Introductory Statistics, how the Frequency shifted during COVID-19, and

```
###### -99 = MISSING; 0 = No Concern; 1 = Concern
  count(data, cw_r_1) ## R Coding
  count(data, cw_u_1) #Understanding concepts
  count(data, cw_w_1) # Workload
  count(data, vc_1) # virtual learning
  count(data, ss_tm_1) # time management
  count(data, ss_r_1) # inaccessabile resources
  count(data, ss_m_1) # motivation
  count(data, ss_fm_1) # fixed mindset
  count(data, ss_se_1) # study environment
  count(data, le_pk_1) # lack of proir knowledge
  count(data, le_ts_1) # transfer student
  count(data, e_m_1) # memorizing
  count(data, e_p_1) # performance
  count(data, pp_p_1) # instructor
  count(data, pp_sc_1) # social comparison
  count(data, pp_gw_1) # group work
  count(data, c_eo_1) # external obligations
  count(data, ps_hwb_1) # physical/mental health
  count(data, ps_fb_1) # financial burdens
  count(data, ps_pls_1) # personal struggles unrelated to health/finances
  count(data, ps_fnb_1) # non-belonging & isolation
  count(data, ps_pro_1) # pandemic related concerns
  count(data, o n 1) ## no concerns
  table2_data <- data%>%
    select(urm, gender, covid, cw_r_1, cw_u_1, cw_w_1, vc_1, ss_tm_1, ss_r_1, ss_m_1, ss_fm_
    rename(r_coding = cw_r_1, understanding_concepts = cw_u_1, workload = cw_w_1, virtual_le
    filter(r_coding >= 0) ## remove missing values
  gender_table <- table2_data %>%
    select(-c(urm, covid))%>%
    group_by(gender)%>%
    filter(gender >= 0)
  gender_table
# A tibble: 1,259 x 24
# Groups:
           gender [3]
  gender r_coding understanding_conc~ workload virtual_learning time_management
```

	<int></int>	<int></int>	<int></int>	<int></int>	<int></int>	<int></int>
1	0	1	0	0	0	0
2	0	0	0	0	0	0
3	0	1	0	0	0	0
4	0	1	0	1	0	0
5	0	0	0	0	0	0
6	0	1	0	1	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	1	0	0	0	0

- # ... with 1,249 more rows, and 18 more variables:
- # inaccessabile\_resources <int>, motivation <int>, fixed\_mindset <int>,
- # study\_enviornment <int>, lack\_of\_prior\_knowledge <int>,
- # transfer\_student <int>, memorizing <int>, performance <int>,
- # instructor <int>, social\_comparison <int>, group\_work <int>,
- # external\_obligations <int>, physical\_mental\_health <int>,
- # financial\_burdens <int>, ...

CrossTable(gender\_table\$r\_coding, gender\_table\$gender, prop.c=TRUE)

## Cell Contents

		l
١	N	l
	Chi-square contribution	l
	N / Row Total	l
	N / Col Total	l
	N / Table Total	l
١		ı

Total Observations in Table: 1259

gender_table\$gender							
gender_table\$r_coding	0	1	1 2	Row Total			
0 1	247	618	15	880			
ĺ	1.158	0.474	0.075				

	0.281	0.702	0.017	0.699
	0.748	0.680	0.750	1
	0.196	0.491	0.012	1
1	l 83	291	5 <b> </b>	379
	2.688	1.102	0.173	1
	0.219	0.768	0.013	0.301
	0.252	0.320	0.250	1
	0.066	0.231	0.004	1
Column Total	330	909	20	1259
	0.262	0.722	0.016	1

## could do this for each question ... is there a better way?
## the proportions in table 2 are the 4th row in the 2nd block