

Study S1

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Read Data

```
## Pull directly from Qualtrics API
qual_data <- fetch_survey(surveyID='SV_beJTVpRBi2UsN8y',
  label = T,
  convert = F,
  force_request = T)
```

Variable Names

Variable	Description
list_two	Binary indicator of whether the control received a list of two attributes (list_two=1) or not (list_two=0).
gender_feedback	Binary indicator of whether a participant was randomly assigned to gender feedback condition.
female	Binary indicator of whether a participant selected a female business leader for their seventh selection.
ceo	Binary indicator of whether a participant was randomly assigned to receive CEO feedback.
ceo_pick	Binary indicator of whether a participant selected a CEO business leader for their seventh selection.
founder	Binary indicator of whether a participant was randomly assigned to receive founder feedback.
founder_pick	Binary indicator of whether a participant selected a founder business leader for their seventh selection.
tech	Binary indicator of whether a participant was randomly assigned to receive technologist feedback.
tech_pick	Binary indicator of whether a participant selected a technologist business leader for their seventh selection.
base_gender	Count of the number of female panelists selected in the initial six selections.
gender	Self-selected gender.
race	Self-selected race.
age	Self-entered age.
gender_code	Dummy code for gender (male = 1).
race_code	Dummy code for race (white = 1).

Demographics

Excluded Participants: 161

##		Percentage	gender
## 1	Another gender not listed here:	0.2	
## 2		Man	50.9
## 3		Non-binary	1.0
## 4		Woman	47.9

##		Percentage	Race
## 1	American Indian or Alaskan Native	0.3	
## 2	Asian / Pacific Islander	7.6	
## 3	Black or African American	7.9	
## 4	Hispanic / Latinx	7.1	
## 5	White / Caucasian	77.1	

##	#	A tibble:	1	x	2
##		mean_age	sd_age		
##		<dbl>	<dbl>		
## 1		41.2	12.0		

Pooled Analysis

```
r0 <- lm(female ~ list_two, data=d0)

# Calculate robust standard errors
robust_summary(r0)

##
## Call:
## lm(formula = female ~ list_two, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2857 -0.2857 -0.2691  0.7143  0.7309
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.28571     0.02857  10.000  <2e-16 ***
## list_two    -0.01664     0.04016  -0.414    0.679
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4486 on 499 degrees of freedom
## (499 observations deleted due to missingness)
## Multiple R-squared:  0.0003452, Adjusted R-squared: -0.001658
## F-statistic: 0.1723 on 1 and 499 DF, p-value: 0.6782
```

Primary Analysis

```
# primary model
r1 <- lm(female ~ gender_feedback, data=d0)

# Display the summary with robust standard errors
robust_summary(r1)

##
## Call:
## lm(formula = female ~ gender_feedback, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5010 -0.2774 -0.2774  0.4990  0.7226
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.27745    0.02004  13.842 < 2e-16 ***
## gender_feedback 0.22356    0.03008   7.432 2.29e-13 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.475 on 998 degrees of freedom
## Multiple R-squared:  0.05257,    Adjusted R-squared:  0.05162
## F-statistic: 55.37 on 1 and 998 DF,  p-value: 2.147e-13
```

Robustness

```
## which feedback was shown with gender
r2 <- lm(female ~ gender_feedback + ceo + tech + founder, data=d0)

# Display the summary with robust standard errors
robust_summary(r2)
```

```
##
## Call:
## lm(formula = female ~ gender_feedback + ceo + tech + founder,
##     data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5445 -0.3153 -0.2776  0.4932  0.7851
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.236400   0.102156   2.314   0.0209 *
## gender_feedback 0.229217   0.036083   6.353 3.22e-10 ***
## ceo           0.070785   0.046672   1.517   0.1297
## tech          0.008146   0.047623   0.171   0.8642
## founder      -0.029617   0.047594  -0.622   0.5339
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4743 on 995 degrees of freedom
## Multiple R-squared:  0.05818,    Adjusted R-squared:  0.05439
## F-statistic: 15.37 on 4 and 995 DF,  p-value: 3.357e-12
```

```
robust_confint(r2)
```

```
##              2.5 %      97.5 %
## (Intercept)  0.03593469 0.43686486
## gender_feedback 0.15841068 0.30002398
## ceo          -0.02080162 0.16237168
## tech         -0.08530769 0.10159988
## founder      -0.12301310 0.06377988
```

```
## robust to demographic controls
```

```
r3 <- lm(female ~ gender_feedback + gender_code + race_code + age, data=d0)

# Display the summary with robust standard errors
robust_summary(r3)
```

```
##
## Call:
## lm(formula = female ~ gender_feedback + gender_code + race_code +
```

```
##      age, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5586 -0.3394 -0.2652  0.5005  0.7889
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.367078   0.063217   5.807 8.57e-09 ***
## gender_feedback 0.223391   0.030199   7.397 2.95e-13 ***
## gender_code   -0.021694   0.030438  -0.713   0.476
## race_code     -0.033666   0.036171  -0.931   0.352
## age          -0.001274   0.001292  -0.986   0.324
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4751 on 995 degrees of freedom
## Multiple R-squared:  0.05504,    Adjusted R-squared:  0.05124
## F-statistic: 14.49 on 4 and 995 DF,  p-value: 1.662e-11
```

```
robust_confint(r3)
```

```
##              2.5 %      97.5 %
## (Intercept)   0.243025270 0.49113170
## gender_feedback 0.164128762 0.28265227
## gender_code   -0.081423582 0.03803557
## race_code     -0.104645350 0.03731367
## age          -0.003809364 0.00126140
```

```
## logistic regression
# Fit the logistic regression model
r4 <- glm(female ~ gender_feedback, family = binomial, data=d0)

# Odds ratio
tidy_r4 <- tidy(r4, exponentiate = TRUE, conf.int = T)
print(tidy_r4)
```

```
## # A tibble: 2 x 7
##   term          estimate std.error statistic  p.value conf.low conf.high
##   <chr>          <dbl>     <dbl>     <dbl>    <dbl>    <dbl>    <dbl>
## 1 (Intercept)    0.384     0.0998    -9.59 8.60e-22  0.315    0.466
## 2 gender_feedback 2.61      0.134     7.17 7.52e-13  2.01     3.41
```

Secondary Analysis

```
## ceo feedback
r_ceo <- lm(ceo_pick ~ ceo, data=d0)

# Display the summary with robust standard errors
robust_summary(r_ceo)

##
## Call:
## lm(formula = ceo_pick ~ ceo, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5053 -0.5053  0.4947  0.4947  0.5083
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.49174    0.03227  15.238  <2e-16 ***
## ceo          0.01354    0.03704   0.366    0.715
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5005 on 998 degrees of freedom
## Multiple R-squared:  0.0001346, Adjusted R-squared:  -0.0008673
## F-statistic: 0.1343 on 1 and 998 DF, p-value: 0.7141
```

```
#robust_confint(r_ceo)

## founder feedback
r_founder <- lm(founder_pick ~ founder, data=d0)

# Display the summary with robust standard errors
robust_summary(r_founder)
```

```
##
## Call:
## lm(formula = founder_pick ~ founder, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2955 -0.2955 -0.2955  0.7045  0.7807
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.21933    0.02532   8.661  <2e-16 ***
## founder      0.07615    0.03044   2.501  0.0125 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4457 on 998 degrees of freedom
```



```
## Multiple R-squared:  0.00572,    Adjusted R-squared:  0.004724
## F-statistic: 5.741 on 1 and 998 DF,  p-value: 0.01675
```

```
#robust_confint(r_founder)
```

```
## tech feedback
```

```
r_tech <- lm(tech_pick ~ tech, data=d0)
```

```
# Display the summary with robust standard errors
```

```
robust_summary(r_tech)
```

```
##
## Call:
## lm(formula = tech_pick ~ tech, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.3132 -0.3132 -0.3132  0.6868  0.7004
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.29958    0.02988  10.026  <2e-16 ***
## tech         0.01366    0.03429   0.398    0.69
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4629 on 998 degrees of freedom
## Multiple R-squared:  0.0001577, Adjusted R-squared:  -0.0008441
## F-statistic: 0.1574 on 1 and 998 DF,  p-value: 0.6916
```

```
#robust_confint(r_tech)
```

```
## interaction of base gender
```

```
# primary model
```

```
r_interaction <- lm(female ~ gender_feedback*base_gender, data=d0)
```

```
# Display the summary with robust standard errors
```

```
robust_summary(r_interaction)
```

```
##
## Call:
## lm(formula = female ~ gender_feedback * base_gender, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5655 -0.3335 -0.2391  0.4889  0.8081
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.333519    0.030146  11.063  < 2e-16 ***
```

```
## gender_feedback          0.232015    0.045619    5.086 4.37e-07 ***
## base_gender              -0.047215    0.016476   -2.866  0.00425 **
## gender_feedback:base_gender -0.007179    0.026642   -0.269  0.78763
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4725 on 996 degrees of freedom
## Multiple R-squared:  0.06429,    Adjusted R-squared:  0.06147
## F-statistic: 22.81 on 3 and 996 DF,  p-value: 2.75e-14
```

Figure S3 Code

```
## dataframe for Gender information

dgender_plot <- d0 |>
  dplyr::select(gender_feedback, female) |>
  group_by(gender_feedback, female) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(female == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(gender_feedback==0 ~ coef(summary(r1))[, "Std. Error"][1]*100,
                        TRUE ~ coef(robust_summary(r1))[, "Std. Error"][2]*100)) |>
  mutate(gender_feedback = case_when(gender_feedback==1 ~ "\"Treatment\"",
                                     TRUE ~ "\"Control\"")) |>
  rename(Condition = gender_feedback)

## dataframe for CEO information

dceo_plot <- d0 |>
  dplyr::select(ceo, ceo_pick) |>
  group_by(ceo, ceo_pick) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(ceo_pick == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(ceo==0 ~ coef(robust_summary(r_ceo))[, "Std. Error"][1]*100,
                        TRUE ~ coef(robust_summary(r_ceo))[, "Std. Error"][2]*100)) |>
  mutate(ceo = case_when(ceo==1 ~ "\"Treatment\"",
                        TRUE ~ "\"Control\"")) |>
  rename(Condition = ceo)

## dataframe for Founder information

dfounder_plot <- d0 |>
  dplyr::select(founder, founder_pick) |>
  group_by(founder, founder_pick) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(founder_pick == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
         se = case_when(founder==0 ~ coef(robust_summary(r_founder))[, "Std.
↪ Error"][1]*100,
```

```

      TRUE ~ coef(robust_summary(r_founder))[, "Std. Error"][2]*100))
    ↪ |>
mutate(founder = case_when(founder==1 ~ "\"Treatment\"",
      TRUE ~ "\"Control\"")) |>
rename(Condition = founder)

## dataframe for Tech information

dtech_plot <- d0 |>
  dplyr::select(tech, tech_pick) |>
  group_by(tech, tech_pick) |>
  summarise(n = n()) |>
  mutate(freq = n / sum(n)) |>
  filter(tech_pick == 1) |>
  mutate(sd = sqrt((freq*(1-freq))/n)*100,
    se = case_when(tech==0 ~ coef(robust_summary(r_tech))[, "Std. Error"][1]*100,
      TRUE ~ coef(robust_summary(r_tech))[, "Std. Error"][2]*100)) |>
mutate(tech = case_when(tech==1 ~ "\"Treatment\"",
  TRUE ~ "\"Control\"")) |>
rename(Condition = tech)

df_combined <- bind_rows(
  dceo_plot %>% mutate(Category = "\nCCEOs"),
  dtech_plot %>% mutate(Category = "\nTechnologists"),
  dfounder_plot %>% mutate(Category = "\nFounders"),
  dgender_plot %>% mutate(Category = "\nFemale")
, .id = "id") %>%
  mutate(Category = factor(Category, levels = c("\nCCEOs", "\nTechnologists",
    "\nFounders", "\nFemale")))

p_combined <- ggplot(df_combined, aes(x = Condition, y = freq*100, fill = Condition)) +
  geom_bar(stat="identity", width = 0.85, position = position_dodge(width = 0.7)) +
  geom_text(aes(label=paste0(sprintf("%.1f", freq*100), "%"),
    position=position_dodge(width=0.7), vjust=5, size = 5, color = "white") +
  geom_errorbar(aes(ymin=freq*100-se, ymax=freq*100+se), width = .1, position =
    ↪ position_dodge(width = 0.7)) +
  facet_wrap(~factor(Category, c("\nCCEOs", "\nTechnologists", "\nFounders", "\nFemale")),
    ↪ nrow = 1, strip.position = "bottom") +
  geom_segment(data = df_combined %>% filter(Condition == "\"Treatment\""),
    aes(x = 1, xend = 2, y = freq*100 + se + 5, yend = freq*100 + se + 5),
    inherit.aes = FALSE) +
  geom_text(data = df_combined %>% filter(Category %in% c("\nCCEOs", "\nTechnologists") &
    ↪ Condition == "\"Treatment\""),
    aes(x = 1.5, xend = 1.5, y = freq*100 + se + 7, yend = freq*100 + se + 7,
    ↪ label = "n.s."),
    inherit.aes = FALSE, vjust = 0, size = 5) +
  geom_text(data = df_combined %>% filter(Category %in% c("\nFounders") & Condition ==
    ↪ "\"Treatment\""),
    aes(x = 1.5, xend = 1.5, y = freq*100 + se + 5, yend = freq*100 + se + 5,
    ↪ label = "*"),
    inherit.aes = FALSE, vjust = 0, size = 5) +
  geom_text(data = df_combined %>% filter(Category == "\nFemale" & Condition ==
    ↪ "\"Treatment\""),

```

```

aes(x = 1.5, xend = 1.5, y = freq*100 + se + 5, yend = freq*100 + se + 5,
  ↪ label = "***"),
inherit.aes = FALSE, vjust = 0, size = 5) +
theme_bw() +
scale_fill_manual(values = c("#990000", "#011F5B"), labels = c("No feedback provided",
  ↪ "Feedback provided"), "Feedback") +
scale_y_continuous(labels = function(x) paste0(x,"%"), limits = c(0,80)) +
scale_x_discrete(labels = c("\nControl\n" = "Not\nShown", "\nTreatment\n" = "Shown")) +
labs(x = "Feedback on % of panelists who were...", y = "% of New Panelists with the
  ↪ Target Identity",
  title = "The Effect of Getting Feedback on Your Panel's Composition") +
theme(plot.caption = element_text(face = "italic"),
  legend.position = c(0.5, 0.85),
  legend.title = element_blank(),
  legend.direction = "horizontal",
  legend.text = element_text(size = 20, family = "Times New Roman"),
  legend.key.size = unit(7, 'mm'),
  legend.background = element_rect(fill = "white"),
  panel.grid.minor = element_blank(),
  panel.grid = element_blank(),
  panel.border = element_rect(fill= NA, color = "white"),
  plot.background = element_rect(fill = "white"),
  panel.background = element_rect(fill = "white"),
  axis.title.x = element_text(face="bold", size = 22, vjust = 13, family = "Times
  ↪ New Roman"),
  plot.title = element_blank(),
  axis.title.y = element_text(size = 20, color = "black", family = "Times New
  ↪ Roman"),
  axis.text.x = element_blank(),
  axis.ticks = element_blank(),
  axis.text.y = element_text(size = 20, color = "black", family = "Times New
  ↪ Roman"),
  strip.text = element_text(size = 20, color = "black", family = "Times New
  ↪ Roman"),
  strip.background = element_rect(colour = "white", fill = "white"))

# Save the plot with Times New Roman font
# ggsave("../Supplemental_Figures/Figure-S3.pdf", plot = p_combined, width = 10, height =
  ↪ 8, units = "in", device = cairo_pdf, family = "Times New Roman")

```

System of Simultaneous Equations

##	Wald.Coefficient	P_Value
## Gender Feedback - Founder Feedback	57.74091	4.574119e-14
## Gender Feedback - Tech Feedback	78.69334	0.000000e+00
## Gender Feedback - CEO Feedback	17.69969	2.701487e-05