

Study S2A

December 31, 2025

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Read Data

```
# Set this to TRUE if you have API access, FALSE if using CSV
USE_API <- TRUE

if(USE_API) {
  ## Pull directly from Qualtrics API
  qual_data <- fetch_survey(surveyID='SV_3sK5vJ1hXsDPKom',
    label = T,
    convert = F,
    start_date = "2022-12-01",
    force_request = T)
} else {
  # Read the processed data directly from CSV
  d0 <- read.csv('StudyS2A.csv', check.names = F)
  num_excluded <- unique(d0$num_excluded_total)

}

# Define the categories
females <- c('Mary Barra (CEO of General Motors)', 'Oprah Winfrey (CEO of Oprah Winfrey
  ↪ Network)',

  'Janet Yellen (U.S. Secretary Treasury)', 'Jane Fraser (CEO of Citigroup)',

  'Rosalind Brewer (CEO of Walgreens)')

ceos <- c("Tim Cook (CEO of Apple)", "Elon Musk (CEO of Tesla)", "Oprah Winfrey (CEO of
  ↪ Oprah Winfrey Network)",

  "Mary Barra (CEO of General Motors)", "Jane Fraser (CEO of Citigroup)", "Marvin
  ↪ Ellison (CEO of Lowe's)",

  "Warren Buffet (CEO of Berkshire Hathaway)", "Charles Koch (CEO of Koch
  ↪ Industries)",

  "Stewart Butterfield (CEO of Slack)", "Jack Ma (CEO of Alibaba)", "Rosalind
  ↪ Brewer (CEO of Walgreens)",

  "Jeff Weiner (CEO of LinkedIn)")

techs <- c("Bill Gates (Co-founder of Microsoft)", "Mark Zuckerberg (Co-founder of
  ↪ Facebook)",

  "Tim Cook (CEO of Apple)", "Elon Musk (CEO of Tesla)", "Larry Page (Co-founder
  ↪ of Google)",

  "Sergey Brin (Co-founder of Google)", "Jeff Bezos (Founder of Amazon)",

  "Stewart Butterfield (CEO of Slack)", "Jack Ma (CEO of Alibaba)",

  "Jeff Weiner (CEO of LinkedIn)")

founders <- c("Bill Gates (Co-founder of Microsoft)", "Mark Zuckerberg (Co-founder of
  ↪ Facebook)",

  "Larry Page (Co-founder of Google)", "Sergey Brin (Co-founder of Google)",

  "Sean Combs (Founder of Bad Boy Entertainment)", "Daymond John (Founder of
  ↪ FUBU)",

  "Jeff Bezos (Founder of Amazon)", "Michael Bloomberg (Co-founder of
  ↪ Bloomberg LP)",

  "Phil Knight (Co-founder of Nike)")

if(USE_API) {
  d0 <- qual_data |>
```

```

mutate(ec_2 = tolower(ec_2)) |>
filter(workerId!="", selection_6!="", ec_2 %in% c("one one", "\"one one\""),
~ Finished==1) |>
mutate(fem_choice = across(c(bonus_ctrl2_7, bonus_ctrl1_7, bonus_trt_7),
~ case_when(. %in% females ~ 1,
TRUE ~ 0)),
ceo_choice = across(c(bonus_ctrl2_7, bonus_ctrl1_7, bonus_trt_7),
~ case_when(. %in% ceos ~ 1,
TRUE ~ 0)),
tech_choice = across(c(bonus_ctrl2_7, bonus_ctrl1_7, bonus_trt_7),
~ case_when(. %in% techs ~ 1,
TRUE ~ 0)),
founder_choice = across(c(bonus_ctrl2_7, bonus_ctrl1_7, bonus_trt_7),
~ case_when(. %in% founders ~ 1,
TRUE ~ 0)),
condition = case_when(group %in% c("control1", "control2") ~ "Control",
TRUE ~ "Treatment")) |>
mutate(fem_score = case_when(`female_count_type-1` == "are female" ~ female_count_1,
`female_count_type-2` == "are female" ~ female_count_2,
`female_count_type-3` == "are female" ~ female_count_3),
gender_feedback = case_when(condition=="Control" ~ 0, condition=="Treatment" ~
1),
founder = case_when((group == "control1" & (`count_type-1` == "are founders" |
`count_type-2` == "are founders")) | (group=="control2") |
(group=="treatment" & (`female_count_type-1` == "are founders" |
`female_count_type-2` == "are founders" | `female_count_type-3` == "are
founders")) ~ 1, TRUE ~ 0),
tech = case_when((group == "control1" & (`count_type-1` == "are in the
technology industry" | `count_type-2` == "are in the technology
industry")) | (group=="control2") | (group=="treatment" &
(`female_count_type-1` == "are in the technology industry" |
`female_count_type-2` == "are in the technology industry" |
`female_count_type-3` == "are in the technology industry")) ~ 1, TRUE ~
0),
ceo = case_when((group == "control1" & (`count_type-1` == "are CEOs" |
`count_type-2` == "are CEOs")) | (group=="control2") | (group=="treatment" &
(`female_count_type-1` == "are CEOs" | `female_count_type-2` == "are
CEOs" | `female_count_type-3` == "are CEOs")) ~ 1, TRUE ~ 0),
list_two = case_when(group=="control1" ~ 1, group=="control2" ~ 0, TRUE ~
NA_real_) |>
mutate(female = case_when(fem_choice$bonus_ctrl2_7==1 | fem_choice$bonus_ctrl1_7==1 |
~ fem_choice$bonus_trt_7==1 ~ 1, TRUE ~ 0),
ceo_pick = case_when(ceo_choice$bonus_ctrl2_7==1 | ceo_choice$bonus_ctrl1_7==1 |
~ ceo_choice$bonus_trt_7==1 ~ 1, TRUE ~ 0),
founder_pick = case_when(founder_choice$bonus_ctrl2_7==1 |
~ founder_choice$bonus_ctrl1_7==1 | founder_choice$bonus_trt_7==1 ~ 1, TRUE ~
0),
tech_pick = case_when(tech_choice$bonus_ctrl2_7==1 |
~ tech_choice$bonus_ctrl1_7==1 | tech_choice$bonus_trt_7==1 ~ 1, TRUE ~ 0),
gender_code = case_when(gender=="Man" ~ 1, TRUE ~ 0),
race_code = case_when(race=="White / Caucasian" ~ 1, TRUE ~ 0),
age = as.numeric(age),
gender = case_when(gender=="" ~ "N/A",
TRUE ~ gender),

```

```

race = case_when(race == "" ~ "N/A",
                 TRUE ~ race),
encouragement = case_when(vignette == "demand" ~ 1,
                           vignette == "base" ~ 0,
                           TRUE ~ NA),
base_gender = rowSums(across(selection_1:selection_6, ~ . %in% females))) |>
select(
  list_two, encouragement, gender_feedback, female, ceo, ceo_pick, founder,
  founder_pick, tech, tech_pick, base_gender, gender, race, age, gender_code,
  race_code) |>
slice(1:1000) # pre-registered sample size

# Calculate the number of excluded participants
num_excluded <- nrow(qual_data) - nrow(d0)

# Save num_excluded in d0
d0$num_excluded_total <- num_excluded # As a column

# Write the API-pulled data into a CSV file
write.csv(d0, 'StudyS2A.csv', row.names = FALSE, quote = TRUE)
}

# Create the encouragement-specific dataframes
d0_w_encouragement <- d0 |>
  filter(encouragement == 1)

d0_no_encouragement <- d0 |>
  filter(encouragement == 0)

```

Variable Names

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

Demographics

```
## Excluded Participants: 265

##                                     Percentage gender
## 1 Another gender not listed here:      0.2
## 2                               Man    47.2
## 3                Non-binary     1.1
## 4                           Woman   51.5

##                                     Percentage Race
## 1 American Indian or Alaskan Native  0.5
## 2       Asian / Pacific Islander   8.5
## 3    Black or African American 11.2
## 4           Hispanic / Latinx    5.7
## 5        White / Caucasian 74.1

## # A tibble: 1 x 2
##   mean_age sd_age
##       <dbl>  <dbl>
## 1     40.4   12.0
```

Pooled Analysis

```
## no gender feedback
r0_0 <- lm(female ~ list_two, data=d0_no_encouragement)

# Calculate robust standard errors
robust_summary(r0_0)

##
## Call:
## lm(formula = female ~ list_two, data = d0_no_encouragement)
##
## Residuals:
##     Min      1Q  Median      3Q      Max
## -0.2845 -0.2845 -0.2823  0.7155  0.7177
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.282258   0.040749   6.927 3.99e-11 ***
## list_two    0.002225   0.058701   0.038     0.97
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4525 on 238 degrees of freedom
## (256 observations deleted due to missingness)
## Multiple R-squared:  6.087e-06, Adjusted R-squared:  -0.004196
## F-statistic: 0.001449 on 1 and 238 DF, p-value: 0.9697

## no diversity encouragement
r0_1 <- lm(female ~ list_two, data=d0_w_encouragement)

# Calculate robust standard errors
robust_summary(r0_1)

##
## Call:
## lm(formula = female ~ list_two, data = d0_w_encouragement)
##
## Residuals:
##     Min      1Q  Median      3Q      Max
## -0.3621 -0.3621 -0.2707  0.6379  0.7293
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 0.36207   0.04501   8.044 3.63e-14 ***
## list_two    -0.09139   0.05944  -1.538     0.125
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4634 on 247 degrees of freedom
## (255 observations deleted due to missingness)
```

```
## Multiple R-squared:  0.009661,  Adjusted R-squared:  0.005652
## F-statistic:  2.41 on 1 and 247 DF,  p-value: 0.1219
```

Primary Analysis

```
# primary model, no encouragement
r1 <- lm(female ~ gender_feedback*encouragement, data=d0)

robust_summary(r1)

##
## Call:
## lm(formula = female ~ gender_feedback * encouragement, data = d0)
##
## Residuals:
##      Min       1Q   Median       3Q      Max 
## -0.5020 -0.4766 -0.2833  0.5234  0.7167 
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)             0.283333  0.029209  9.700 < 2e-16 ***
## gender_feedback          0.193229  0.042840  4.511 7.24e-06 ***
## encouragement            0.029920  0.041522  0.721   0.471    
## gender_feedback:encouragement -0.004521  0.060781 -0.074   0.941  
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4804 on 996 degrees of freedom
## Multiple R-squared:  0.03878,    Adjusted R-squared:  0.03589 
## F-statistic:  13.4 on 3 and 996 DF,  p-value: 1.417e-08

robust_confint(r1)

##
##                               2.5 %     97.5 %
## (Intercept)             0.2260153  0.3406514
## gender_feedback          0.1091629  0.2772955
## encouragement            -0.0515615  0.1114009
## gender_feedback:encouragement -0.1237942  0.1147514
```

Secondary Analysis

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

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

```
##
## Call:
## lm(formula = ceo_pick ~ ceo * encouragement, data = d0)
##
## Residuals:
```

```

##      Min     1Q   Median     3Q     Max
## -0.5134 -0.4744 -0.4394  0.5255  0.5606
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.47445   0.04298 11.040 <2e-16 ***
## ceo        -0.03156   0.05038 -0.626   0.531
## encouragement -0.03506   0.06117 -0.573   0.567
## ceo:encouragement  0.10560   0.07147  1.478   0.140
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4992 on 996 degrees of freedom
## Multiple R-squared:  0.004345, Adjusted R-squared:  0.001346
## F-statistic: 1.449 on 3 and 996 DF, p-value: 0.2271

```

```
robust_confint(r_ceo)
```

```

##                  2.5 %    97.5 %
## (Intercept)  0.39011910 0.55878601
## ceo        -0.13041707 0.06730583
## encouragement -0.15509324 0.08497601
## ceo:encouragement -0.03464641 0.24585148

```

```

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

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

```

```

##
## Call:
## lm(formula = founder_pick ~ founder * encouragement, data = d0)
##
## Residuals:
##      Min     1Q   Median     3Q     Max
## -0.3692 -0.3351 -0.3019  0.6308  0.7266
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.301887   0.045014  6.706 3.34e-11 ***
## founder      0.067344   0.051250  1.314   0.189
## encouragement -0.028449   0.060024 -0.474   0.636
## founder:encouragement -0.005675   0.069274 -0.082   0.935
## ---
## 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:  0.004719, Adjusted R-squared:  0.001721
## F-statistic: 1.574 on 3 and 996 DF, p-value: 0.194

```

```

robust_confint(r_founder)

##                               2.5 %      97.5 %
## (Intercept)          0.21355343 0.39022016
## founder            -0.03322561 0.16791357
## encouragement       -0.14623784 0.08933926
## founder:encouragement -0.14161516 0.13026497

## tech feedback
r_tech <- lm(tech_pick ~ tech*encouragement, data=d0)

# Display the robust_summary with robust standard errors
robust_summary(r_tech)

## 
## Call:
## lm(formula = tech_pick ~ tech * encouragement, data = d0)
##
## Residuals:
##    Min     1Q Median     3Q    Max
## -0.3488 -0.3488 -0.3191  0.6512  0.7344
##
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)
## (Intercept)          3.488e-01  4.229e-02   8.249 5.03e-16 ***
## tech                 -6.337e-05  4.910e-02  -0.001   0.999
## encouragement        -8.321e-02  5.776e-02  -1.441   0.150
## tech:encouragement   5.359e-02  6.738e-02   0.795   0.427
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4693 on 996 degrees of freedom
## Multiple R-squared:  0.003366, Adjusted R-squared:  0.0003645
## F-statistic: 1.121 on 3 and 996 DF, p-value: 0.3393

robust_confint(r_tech)

##                               2.5 %      97.5 %
## (Intercept)          0.26584884 0.43182558
## tech                -0.09641335 0.09628661
## encouragement        -0.19656290 0.03013848
## tech:encouragement  -0.07863192 0.18580653

## 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 
## -0.6618 -0.3351 -0.2810  0.4634  0.7461 
## 
## Coefficients:
##                               Estimate Std. Error t value Pr(>|t|)    
## (Intercept)             0.33511   0.03439   9.743 < 2e-16 ***
## gender_feedback          0.32671   0.04896   6.673 4.14e-11 ***
## base_gender              -0.02707   0.01940  -1.395 0.163303    
## gender_feedback:base_gender -0.09819   0.02605  -3.770 0.000173 *** 
## --- 
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 
## 
## Residual standard error: 0.4703 on 996 degrees of freedom
## Multiple R-squared:  0.07907,    Adjusted R-squared:  0.0763 
## F-statistic: 28.51 on 3 and 996 DF,  p-value: < 2.2e-16

```

Figure S5A Code

```

dgender_plot <- d0_no_encouragement |>
  select(gender_feedback, female) |>
  group_by(gender_feedback) |>
  summarise(
    n = n(),
    freq = mean(female),
    sd = sd(female) * 100,
    se = (sd(female) / sqrt(n())) * 100
  ) |>
  mutate(gender_feedback = case_when(gender_feedback==1 ~ "\"Treatment\"",
                                       TRUE ~ "\"Control\"")) |>
  rename(Condition = gender_feedback)

## dataframe for CEO information

dceo_plot <- d0_no_encouragement |>
  select(ceo, ceo_pick) |>
  group_by(ceo) |>
  summarise(
    n = n(),
    freq = mean(ceo_pick),
    sd = sd(ceo_pick) * 100,
    se = (sd(ceo_pick) / sqrt(n())) * 100
  ) |>
  mutate(ceo = case_when(ceo==1 ~ "\"Treatment\"",
                         TRUE ~ "\"Control\"")) |>
  rename(Condition = ceo)

## dataframe for Founder information

```

```

dfounder_plot <- d0_no_encouragement |>
  select(founder, founder_pick) |>
  group_by(founder) |>
  summarise(
    n = n(),
    freq = mean(founder_pick),
    sd = sd(founder_pick) * 100,
    se = (sd(founder_pick) / sqrt(n())) * 100
  ) |>
  mutate(founder = case_when(founder==1 ~ "\"Treatment\"",
                             TRUE ~ "\"Control\"")) |>
  rename(Condition = founder)

## dataframe for Tech information

dtech_plot <- d0_no_encouragement |>
  select(tech, tech_pick) |>
  group_by(tech) |>
  summarise(
    n = n(),
    freq = mean(tech_pick),
    sd = sd(tech_pick) * 100,
    se = (sd(tech_pick) / sqrt(n())) * 100
  ) |>
  mutate(tech = case_when(tech==1 ~ "\"Treatment\"",
                         TRUE ~ "\"Control\"")) |>
  rename(Condition = tech)

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

p_combined_A <- 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",
            family = "Times New Roman") +
  geom_errorbar(aes(ymin=freq*100-se, ymax=freq*100+se), width = .1, position =
  position_dodge(width = 0.7)) +
  facet_wrap(~factor(Category, c('\nCEOs', '\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('\nCEOs', '\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, family = "Times New Roman") +
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, family = "Times New Roman") +
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, family = "Times New Roman") +
theme_bw() +
scale_fill_manual(values = c("#011F5B", "#990000"), 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("\Control\" = "Not\nShown", "\Treatment\" = "Shown")) +
labs(x = "Feedback on % of panelists who were...", y = "% of New Panelists with the
→  Target Identity") +
theme(plot.caption = element_text(face = "italic", family = "Times New Roman"),
      legend.position = c(0.5, 0.95),
      legend.title = element_blank(),
      legend.direction = "horizontal",
      legend.text = element_text(size = 14, 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 = 14, vjust = 17, family = "Times
→  New Roman"),
      plot.title = element_blank(),
      axis.title.y = element_text(size = 14, color = "black", family = "Times New
→  Roman"),
      axis.text.x = element_blank(),
      axis.ticks = element_blank(),
      axis.text.y = element_text(size = 14, color = "black", family = "Times New
→  Roman"),
      strip.text = element_text(size = 14, color = "black", family = "Times New
→  Roman"),
      strip.background = element_rect(colour = "white", fill = "white"))
#p_combined_A

```

Figure S5B Code

```
dgender_plot <- d0_w_encouragement |>
  select(gender_feedback, female) |>
  group_by(gender_feedback) |>
  summarise(
    n = n(),
    freq = mean(female),
    sd = sd(female) * 100,
    se = (sd(female) / sqrt(n())) * 100
  ) |>
  mutate(gender_feedback = case_when(gender_feedback==1 ~ "\"Treatment\"",
                                       TRUE ~ "\"Control\"")) |>
  rename(Condition = gender_feedback)

## dataframe for CEO information

dceo_plot <- d0_w_encouragement |>
  select(ceo, ceo_pick) |>
  group_by(ceo) |>
  summarise(
    n = n(),
    freq = mean(ceo_pick),
    sd = sd(ceo_pick) * 100,
    se = (sd(ceo_pick) / sqrt(n())) * 100
  ) |>
  mutate(ceo = case_when(ceo==1 ~ "\"Treatment\",
                         TRUE ~ "\"Control\"")) |>
  rename(Condition = ceo)

## dataframe for Founder information

dfounder_plot <- d0_w_encouragement |>
  select(founder, founder_pick) |>
  group_by(founder) |>
  summarise(
    n = n(),
    freq = mean(founder_pick),
    sd = sd(founder_pick) * 100,
    se = (sd(founder_pick) / sqrt(n())) * 100
  ) |>
  mutate(founder = case_when(founder==1 ~ "\"Treatment\",
                             TRUE ~ "\"Control\"")) |>
  rename(Condition = founder)

## dataframe for Tech information

dtech_plot <- d0_w_encouragement |>
  select(tech, tech_pick) |>
  group_by(tech) |>
  summarise(
    n = n(),
    freq = mean(tech_pick),
    sd = sd(tech_pick) * 100,
```

```

    se = (sd(tech_pick) / sqrt(n())) * 100
) |>
mutate(tech = case_when(tech==1 ~ "\"Treatment\"",
                        TRUE ~ "\"Control\"")) |>
rename(Condition = tech)

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

p_combined_B <- 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",
→ family = "Times New Roman") +
geom_errorbar(aes(ymin=freq*100-se, ymax=freq*100+se), width = .1, position =
→ position_dodge(width = 0.7)) +
facet_wrap(~factor(Category, c('\nCEOs', '\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('\nCEOs', '\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, family = "Times New Roman") +
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, family = "Times New Roman") +
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, family = "Times New Roman") +
theme_bw() +
scale_fill_manual(values = c("#011F5B", "#990000"), 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" = "Not\nShown", "\nTreatment" = "Shown")) +
labs(x = "Feedback on % of panelists who were...", y = "% of New Panelists with the
→ Target Identity") +
theme(plot.caption = element_text(face = "italic", family = "Times New Roman"),
legend.position = "none",
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 = 14, vjust = 17, family = "Times
→ New Roman"),
plot.title = element_blank(),
axis.title.y = element_text(size = 14, color = "black", family = "Times New
→ Roman"),
axis.text.x = element_blank(),
axis.ticks = element_blank(),
axis.text.y = element_text(size = 14, color = "black", family = "Times New
→ Roman"),
strip.text = element_text(size = 14, color = "black", family = "Times New
→ Roman"),
strip.background = element_rect(colour = "white", fill = "white"))

#p_combined_B

# Save individual plot objects as RDS for combination in figure-S5.R
saveRDS(p_combined_A, file = "p_combined_S2A_A.rds")
saveRDS(p_combined_B, file = "p_combined_S2A_B.rds")

```

System of Equations

```
##  
## Call:  
## lm(formula = as.numeric(founder_pick) ~ founder + tech + ceo +  
##       gender_feedback - 1, data = d0_no_encouragement)  
##  
## Residuals:  
##      Min      1Q  Median      3Q     Max  
## -0.4765 -0.3464 -0.2835  0.5235  0.7273  
##  
## Coefficients:  
##              Estimate Std. Error t value Pr(>|t|)  
## founder        0.18701   0.03808   4.911 1.24e-06 ***  
## tech           0.11329   0.03728   3.039   0.0025 **  
## ceo            0.17620   0.03633   4.849 1.66e-06 ***  
## gender_feedback -0.01683   0.03846  -0.438   0.6619  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 0.4777 on 492 degrees of freedom  
## Multiple R-squared:  0.3622, Adjusted R-squared:  0.357  
## F-statistic: 69.85 on 4 and 492 DF,  p-value: < 2.2e-16  
  
##                               Wald.Coefficient      P_Value  
## Gender Feedback - Founder Feedback      7.099297 0.0078378268  
## Gender Feedback - Tech Feedback         10.457233 0.0012624375  
## Gender Feedback - CEO Feedback          12.381159 0.0004535653
```