Strength in Numbers: A Field Experiment in Gender, Influence, and Group Dynamics*

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Abstract

Recent scrutiny over all male panels, teams, and other group contexts has led some firms and organizations to respond by adding a single "token" woman to an otherwise all male group. In this paper, we investigate whether token women are at a disadvantage compared to women on majority-women mixed-gender teams. We conducted a multi-year field experiment with a top-10 undergraduate accounting program that randomized the gender composition of semester-long teams. Using laboratory, survey, and administrative data, we find that even after accounting for their proportion of the group, token women are seen as less influential by their peers and are less likely to be chosen to represent the group than women on majority-women teams. Token women also participate slightly less in group discussions, receive fewer returns to participation when they do, and struggle to convert their task performance to influence. We show that women's increased authority in majority-women teams is driven primarily by men's behavior and not homophily. We find some evidence that token women see an increase in general assessments of influence over time, but this improvement does not translate to task-specific assessments. Finally, we show that predictors of future grades are different for token women than for other participants. Our findings have implications for how to approach team assignment in male-dominated settings and cast significant doubt on the idea that token women can solve influence gaps by "leaning in."

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1 Introduction

In recent years, concerns about lack of women's representation in agenda-setting and decision-making bodies have led to a variety of public and private initiatives to diversify work teams, academic panels, corporate boards, public commissions, and other such groups. For example, Norway set a gender quota of 40% women for corporate boards that was implemented in 2008, and several other Western European countries followed. In the United States, the only state that has instituted a corporate board quota, California, has set a much different standard — California's Women on Boards law requires all publicly held corporations whose principal offices are located in the state have at least one female director on their Board of Directors. Early evidence suggests that many California corporations have chosen to comply with this law by adding token woman to their otherwise all-male boards.

What happens to these and other token women in male-dominated settings? Do they face barriers to fully contributing their perspectives and talents even though they have a seat at the table? Can they "lean in" and become full participants in group deliberations? How do their experiences compare to women's experiences and level of influence when women make up a larger portion of a decision-making body?

We conduct a first-of-its-kind, multi-year field experiment with a top-10 undergraduate accounting program in the United States. The program uses a group-based pedagogical approach designed to emulate work teams in the business world and partnered with us because of its interest in the experience of both women and men in these team settings. The program allowed us to randomly assign students to a gender composition condition and then within that condition to 5-person groups. We collected data from team members at multiple points throughout the academic year and also observed group functioning in response to an incentivized team-building lab exercise. The aim of our study was to assess whether the gender

 $^{{\}color{blue}{1} 1 ttps://www.economist.com/business/2018/02/17/ten-years-on-from-norways-quota-for-women-on-corporate-boards}$

²https://bpd.cdn.sos.ca.gov/women-on-boards/WOB-Report-04.pdf

composition of an individual's work team affects women's ability to be influential in group deliberation and decision-making. Using laboratory, survey, and administrative data, we find that lone women are significantly less likely to be seen as influential in team deliberations and to be chosen as a spokesperson for their team than women in majority-women teams. In other words, after accounting for the proportion of women in the group, group gender composition is causally related to who is perceived as influential and capable of representing the group. We also find a persistent gender effect in actual influence on laboratory tasks that cannot be overcome by women being in the majority or by their performance or participation in deliberation. In our detailed laboratory data, none of these outcomes improve for women over the course of four months.

Our rich data also allows us to explore a number of mechanisms through which these effects may operate. In particular, we find that token women's competence on group tasks is not rewarded with increased influence and that they get significantly lower returns to participating in discussions than all other participants in the study. We further find that changes in perceptions of influence across conditions are driven by men's behavior; our results are not driven by patterns of self-votes and women in majority-women groups do not differentially vote for other women.

In monthly survey data, we find modest evidence that token women are able to build general (as opposed to task-specific) influence in their groups over time. And we find no statistically significant differences for average program grades across the treatment conditions. However, we do find that correlates of future GPA³ are quite different for token women than for all other participants. Once we control for patterns of group influence, grades in prerequisite courses are correlated with future GPA for everyone except token women. For token women, group members' perceptions of their influence are disproportionately correlated with future GPA.

³Grade point average (GPA) is a commonly used performance metric in the U.S. education system.

Economists have recently begun addressing related questions in the context of mixedgender⁴ work teams. Prior work finds that evaluations of competence are highly gendered, and
the gender composition of an environment and how a task or domain are stereotyped matter
a great deal for these perceptions (Bordalo et al., 2019; Karpowitz and Mendelberg, 2014;
Preece, 2016). Challenges appear to be especially acute in settings where women have been
historically underrepresented (Bordalo et al., 2016; Coffman, 2014). This leads to outcomes
such as gender disparities in leadership because women correctly presume they will have less
support from their team when men are in the majority (Born et al., 2018), women taking
and getting less credit for joint work with men (Isaksson, 2018; Sarsons, 2017), and women
doing more of the "non-promotable" tasks in groups (Babcock et al., 2017).

Most of this research has been conducted in laboratory settings, with only a few studies in the field. And to our knowledge, no one has experimentally studied naturally occurring groups over time, despite the fact that many teams, boards, and councils interact frequently and are not single-shot processes. Attending to the dynamics of such groups is important because the gender composition of one's environment seems to have important implications for individuals' experiences and outcomes (Booth et al., 2018; Brenoe and Zölitz, 2019; Hill, 2017; Zölitz and Feld, 2018; Kofoed et al., 2019; Anelli and Peri, 2019; Apesteguia et al., 2012; Folke and Rickne, 2020).⁵ On a more practical level, understanding how to design effective teams is a crucial task for employers because teams can be an efficient and flexible way to coordinate production requiring a diversity of skills, talents, and information (Eckel and Grossman, 2005) and have become increasingly common in the workplace (Berg et al., 1996; Boning et al., 2007; Hamilton et al., 2003; Nix, 2020; Lawler and Mohrman, 2003; Lazear and

⁴Although we recognize the conceptual distinction between sex and gender, in this paper we use them interchangeably, in keeping with norms in economics.

⁵This is an observation that many social scientists in sociology, psychology, and political science have studied for decades, though causal identification has typically been a challenge. See, for example (Bratton, 2005; Kanter, 1977; Krook, 2010; McDonald et al., 2004; Spangler et al., 1978; Yoder et al., 1998; Zimmer, 1988).

Shaw, 2007; Wuchty et al., 2007). All of this suggests that patterns of gender marginalization are not just normatively concerning, but also have implications for team effectiveness and firms' productivity.

In our field experiment, we address some of the limitations of previous work by examining group dynamics in randomized groups that meet repeatedly over an extended period of time in a natural setting. In short, across a wide variety of outcomes, we find that token women experience this team-based program differently than other participants. In majority-male teams, women's skills and participation are significantly under-recognized and sometimes even penalized. Finally, our examination of mechanisms suggests that women cannot simply "lean in" to rectify their influence deficit by actively participating in group discussion.

2 Research Design

We partnered with a top-10 undergraduate accounting program in the US to randomize the gender composition of students' assigned work teams during the fall semester of their junior year. Students are competitively admitted to the program at the end of their sophomore year. The fall semester is their first in the rigorous program and assigned five-person teams are a critical part of their experience that semester. They attend classes, work on cases and other course assignments, and study for exams with their five-person group. Program administrators have designed these teams to replicate the work environment of many accounting firms, and faculty use these groups to train students on professional interactions. As is typical of teams in the business world, students are instructed to make decisions together and respect each other's contributions. During the course of the semester, students complete both individual and group assignments, and they interact frequently with each other. The vast majority of groups met together at least 2-3 days a week.⁶

⁶This program is not unique in using assigned teams as a pedagogical and professionalization tool; many accounting programs and most MBA programs also assign students to work teams like these.

The program enrolled 535 students (384 men and 151 women) in Fall Semesters of 2016 and 2017. Women comprise only about 28% of the overall enrollment in the program, and historically the program responded to this imbalance by placing one or two female students per group. Program directors were, however, interested in understanding the effects of this method of team assignment on their female students' experiences. Hence, in this study, female students were randomly assigned to one of two conditions: 1 woman and 4 men (1F) or 3 women and 2 men (3F). Because there were significantly more men than women in the program, men were randomized into one of three conditions: all five men (0F), 1F or 3F. Once individuals had been randomized into a condition, we randomized students into groups. The program stipulated that the average GPA of each group should be similar and that there should only be one international student per group. Hence, we block randomized on these variables.⁷

Throughout the semester and subsequent two years, we collected laboratory, survey, and administrative data to measure the outcomes of this randomization. Prior to group assignment, students took an extensive baseline survey. After group assignment, students completed monthly surveys during fall semester that focused on their perceptions of group interactions and asked them to evaluate their team members' contributions. At the completion of their second (senior) year of the program, we conducted an incentivized exit survey of all students to collect data on their graduate school and labor market outcomes. We also have administrative data on student grades.

In addition to the survey and administrative data, teams participated in an incentivized laboratory task at both the beginning and end of the Fall Semester. At the beginning of the semester, the task was the "Survival on the Moon" task⁸, in which participants are given a

⁷We also had a small number of groups with 2 women and 3 men (2F). Because our statistical power to analyze these groups was low, we do not include them in our main analysis; however Appendix C reports our analysis for "Minority F" groups, which include participants in 1F and 2F groups. Results are robust to the inclusion of these 2F groups.

⁸https://www.psychologicalscience.org/observer/nasa-exercise

list of 15 items and asked to rank them from most to least useful for survival on the moon. This task was originally conceived as a group-based pedagogical exercise, and expert answers have been provided by NASA. At the completion of the semester, the task was the similar "Lost at Sea" task.⁹ These tasks are commonly used as leadership and team-building exercises in the corporate world; detailed task instructions are in Appendix E. Upon arriving at the lab, students first completed the task on their own, giving us a measure of how well each individual independently performed on the task.

Participants were then asked to deliberate with their group members to create a group ranking on the items in the above task. Because participants were fitted with recording equipment, we are able to identify individual participation in discussions with great precision. ¹⁰ After they determined their group ranking, each individual privately completed an exit survey about their group deliberation experience which asked them to vote for a spokesperson to present their results to a panel of judges at a later date. ¹¹ Lab performance was incentivized in several ways: in addition to the \$5 show-up fee, students earned \$50 for having the individual answer closest to the experts, \$50 per group member for having the group answer closest to the experts, and another \$50 for the whole group to share for the best presentation by their chosen spokesperson.

Students were required to participate in the monthly surveys and laboratory exercises for course credit and for the purpose of an internal program evaluation. However, to be included in the analysis in this paper, they had to consent to allow their data to be used for research purposes.¹² Participants were informed that both the internal program evaluation

 $^{^9}$ http://plcmets.pbworks.com/f/lost_at_sea.pdf

¹⁰Recording equipment was 6-channel audio recording, which yields a separate, high-quality recording for each member of the group as well as a track the records the group together.

¹¹Students were told that five groups would be selected at random to have an opportunity to have their spokesperson present their group ranking to the judges in 1-2 weeks for a chance to earn additional \$50 for the best presentation. The groups were thus incentivized to select the most capable group member as their spokesperson.

¹²Two students did not consent to the use of their data, and their responses are not included in the results below. Subjects provided separate consent for lab and survey data, and we did not receive consent from one

and the research study would examine team dynamics (without any mention of gender), and the experiment did not include any deception.

3 Sample and Balance Tests

Admission to this program is highly competitive. Matriculated students typically have high GPAs and considerable leadership experience. As reported in Table A4, the men and women in our sample both came to the program with impressive academic credentials, and there are no significant differences either within genders and across conditions or across genders in academic performance. If anything, women came to the study more qualified to exercise leadership—defined as having held a position in high school student government—than the men who participated. Across a wide variety of background characteristics collected prior to group assignment via administrative data and a baseline survey (See Appendix F for baseline survey instrument), we find few differences between the men and women assigned to the various treatment conditions. In other words, Table A4 affirms that randomization was successful. However, we also include covariate-adjusted results in our analysis tables as a demonstration of robustness.

4 Results

Laboratory Influence Votes

Does group gender composition matter for perceptions of influence? At the conclusion of both the "Lost on the Moon" and "Lost at Sea" tasks, we conducted an exit survey that asked participants to identify the team member who was the most influential and the team member who was least influential in the decision-making deliberations they had just experienced. female in the lab and one male in the surveys.

Table 1: Randomization Balance Table By Gender and Condition

	1F Female	3F Female	0F Male	1F Male	3F Male
Age	22.5	22.7	23.8	23.9	23.8
White	73.7	86.9	90.8	94.8	91.5
Married	31.6	23.1	39.9	32.5	36.6
GPA	3.79	3.78	3.80	3.78	3.79
Leadership experience	52.6	53.2	45.4	47.7	52.8
International student	20.5	10.2	3.9	5.8	9.7
Parental income category	3.8	3.9	4.3	4.3	4.1
Political affiliation scale	5.2	5.5	5.8	5.8	5.8
Ambivalent sexism index	44.5	40.8	56.1	57.7	53.9
Egalitarianism index	59.6	56.7	51.8	55.5	55.8
Individualism index	63.9	66.0	69.9	73.2	71.0
Pro-sociality index	72.9	73.1	71.2	72.9	73.0
Conflict avoidance index	49.0	48.4	43.5	41.5	40.3
Individual efficacy index	57.3	59.1	70.1	70.4	69.0
Group efficacy index	54.4	53.9	64.1	64.4	63.1
N	38	108	153	154	71

Note: we found no statistically significant within-gender differences across conditions at the 5% level. The N accounts for 1 woman and 1 man who did not provide consent.

Figure 1 reports our results. The horizontal dashed line in Figure 1 represents how many votes women in that treatment condition would receive if they were selected in proportion to their presence in the group — 20% for the 1F groups and 60% for the 3F groups. Normalizing in this way allows for easier comparison across treatment conditions. The variable of interest is equivalent to the number of votes per woman in the group — a number that would equal one if influence were distributed randomly. In all our analyses, results are combined for both tasks because we see no meaningful differences across time, but disaggregated results are reported in Appendix A.

As Figure 1 makes clear, members of 1F teams were extremely unlikely to see their female teammate as most influential in their laboratory task deliberations, even relative to their comparatively low proportion of the group. They were also very likely to see her as the

least influential person on the team. By comparison, members of 3F teams chose women as most and least influential about as often as expected given their proportion in the group.

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Figure 1: Lab Influence Votes

Note: 95% confidence intervals. Bars represent the average proportion of votes for women divided by the proportion of women in the group. (See Table 2 for full results)

Most Influential

Table 2 confirms that the experimental differences between the 1F and 3F conditions are statistically significant at the $p \le 0.01$ level for most influential votes and at the $p \le 0.05$ for least influential votes. Specifically, we estimate the following equation using OLS:

$$Y_g = \alpha + 1F\beta + X_g\gamma + \epsilon_g \tag{1}$$

Least Influential

The analysis is conducted at the group level, and the dependent variable is the average proportion of votes for women divided by the proportion of women in group g. 1F captures

the gender composition of the group. The coefficient of interest is β , which represents the difference between the point estimate for the 3F groups and 1F groups shown in Figure 1. X is a vector of variables that control for GPA, age, race, marital status, and international students. Columns (1) and (2) in Table 2 report the effect of being in a 1F group on women's votes as most influential, while columns (3) and (4) as least influential.

We find that token women receive about .44 influence votes per woman less than women in majority women groups. The trend works in reverse for the least influential votes. Token women get about two-thirds *more* least influential votes per woman compared to women in majority women groups. These results remain significant at conventional levels even in the presence of controls for group characteristics, such as the presence of international students, the racial composition of the group, or the average age of group members.

Table 2: Lab Influence Votes

	(1) Most Influential	(2) Most Influential	(3) Least Influential	(4) Least Influential
1F Condition	-0.437***	-0.500***	0.675**	0.671**
	(0.135)	(0.141)	(0.264)	(0.281)
Average GPA (Group)	,	$0.522^{'}$,	0.619
		(1.128)		(2.251)
Average Age (Group)		0.125		0.078
3 3 (1)		(0.081)		(0.161)
International Student in Group		0.106		-0.207
		(0.161)		(0.321)
Proportion White		0.814		-0.883
		(0.612)		(1.222)
Number of Married Students in Group		-0.023		-0.141
		(0.070)		(0.140)
Constant	0.898***	-4.710	0.995***	-2.074
	(0.098)	(4.885)	(0.191)	(9.748)
Observations	75	75	75	75
R-squared	0.125	0.183	0.082	0.106

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group.

***p<0.01, **p<0.05, *p<0.1

As a robustness check, we also pursued a second analytic strategy in which we explored gender differences in who received the most influence votes within the group by randomly selecting one man in each 1F condition group to compare against the group's token woman.¹³ Averaging across the two labs, 29.5% of the randomly chosen men were chosen as the most influential group member, compared to only 8% of token women. This represents a deep influence deficit for the 1F women. By contrast in 3F groups, 19% of randomly chosen women were most influential, compared to 26% of men.

Hence, across multiple measures and analytic approaches, we find strong support for the idea that even though the women in the 1F condition are, on average, equally talented as the women in the 3F condition, they are seen as much less influential in group deliberation. In fact, out of the 39 1F women, *no* women were chosen as most influential in both of their group's laboratory exercises, compared to 22 out of 154 men in the 1F condition.

Laboratory Task Spokesperson Votes

Does this deficit in perceptions of influence manifest itself in behavioral evaluations of competence? Group members did not just vote on the most influential member of the group; they also made an incentivized choice for whom to select as spokesperson for their group. The spokesperson would have a chance to earn another \$50 for the team by doing a short presentation defending their group's decision. If the influence votes were perceived as a low-stakes evaluation of group members, the selection of spokesperson was not. With an additional \$50 at stake, each group member was incentivized to vote for the most competent member of the group.

In the spokesperson decision, participants voted individually and without notice or prior deliberation as part of the exit survey. Every group member was listed on the "ballot," so there was no nomination stage in which people could express that they were not interested in being spokesperson. As with the other measures of influence, we saw treatment effects on the

¹³Details available from the authors. The dependent variable is a dichotomous indicator of whether the group member received the most influence votes. In the case of ties, multiple group members could be "most influential."

probability of people voting for a woman as spokesperson. Figure 2 and Table 3 report these results.

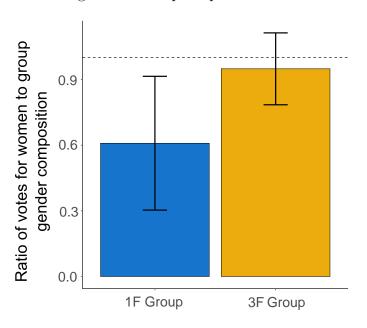


Figure 2: Lab Spokesperson Votes

Note: 95% confidence intervals. Bars represent the average proportion of votes for women divided by the proportion of women in the group. (See Table 3 for full results)

Once again, Figure 2 shows that participants in 1F groups were significantly less likely to choose women relative to their proportion of group membership. Participants in 3F groups were not. Table 3 reports the results of an OLS regression estimating equation 1 at the group level with the proportion of spokesperson votes for women divided by the proportion of women in the group.

Results in Table 3 suggest that including controls sharpens the precision and increases the size of the estimated effect. After controlling for other factors, token women get about .46 votes less than women in the 3F groups and only about 55 percent of the baseline expectation. Again, our second analytic approach — randomly selecting other group members for comparison with the token women — also produces evidence of meaningful disadvantage

Table 3: Lab Spokesperson Votes

	(1)	(2)
1F Condition	-0.343*	-0.456**
Average GPA (Group)	(0.180)	(0.183) -0.073 (1.469)
Average Age (Group)		0.157 (0.105)
International Student in Group		0.110 (0.210)
Proportion White		0.542 (0.797)
Number of Married Students in Group		0.182* (0.092)
Constant	0.949*** (0.130)	-3.202 (6.362)
Observations R-squared	75 0.047	75 0.153

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group. ***p < 0.01, ***p < 0.05, *p < 0.1

for women in the 1F condition. Averaging across the two labs, only 11% of token women were chosen as spokesperson, compared to 24% of randomly chosen men.¹⁴

The fact that women were also less likely to be chosen when the choice was consequential and incentivized suggests our attitudinal findings reflect real authority deficits. Insofar as this kind of selection process mirrors opportunities for visibility and promotion in the workplace — for example, presenting findings to a boss or client or being chosen as the "lead" on a project — this result is especially troubling.

 $^{^{-14}}$ In the 3F condition, 18.5% of randomly chosen women were voted as spokesperson, compared to 26.4% of randomly chosen men.

Actual Influence on Task

Our analysis to this point has focused primarily on group members' assessments of each other, but the structure of our laboratory task also allows to measure empirical influence on the task by identifying who was able to pull the group outcome closest to their initial ranking. We identify which individual had the smallest total difference between their pre-deliberation ranking of items on the Lost on the Moon or Lost at Sea task and the final group outcome. This is a proxy for having the most actual influence in deliberation. We then estimate the following equation:

$$Y_i = \alpha + 1F_i\beta + 1F_i * Female_i\delta + X_i\gamma + \epsilon_i \tag{2}$$

Because we average across both task sessions, the dependent variable in the model takes on 3 values: 0 if the participant was never the most influential member of the group, 0.5 if the participant was most influential once, and 1 if the participant was most influential in both tasks. These results are robust to other ways of operationalizing actual influence as well (see Appendix Tables B1-B3). As before, 1F is a dummy equal to 1 if an individual was in a 1F group and Female is a dummy for gender. The interaction between 1F and Female is our coefficient of interest. The analysis is conducted at the individual level with standard errors clustered at the group level. Table 4 reports our results with and without controls in columns 1 and 2 respectively.

Although we do not find a treatment effect, we do find a durable gender effect. Table 4 shows that token women are just as likely to shape the group decision as 3F women. Or, more accurately, they are just as *unlikely* to shape the group decision. This gender effect persists and even sharpens after controlling for individual task performance and speaking turns. What this suggests is that while group structure may be able to equalize perceptions of influence and likelihood of being chosen to be the group spokesperson, it *does not* equalize

Table 4: Determinants of Actual Influence over Group Decision

	(1)	(2)
Female	-0.063*	-0.072**
remaie	(0.034)	(0.036)
1F Group	-0.022	-0.036
II Group	(0.038)	(0.040)
1F X Female	0.003	0.028
II A remaie	(0.045)	(0.048)
International	(0.040)	-0.005
meemanonar		(0.041)
Age		-0.007*
1100		(0.004)
White		0.017
		(0.044)
Married		-0.012
		(0.028)
Task Performance		0.399***
		(0.140)
Speaking Turns		0.607**
-		(0.301)
GPA		0.019
		(0.055)
Constant	0.132***	-0.149
	(0.032)	(0.256)
Observations	373	370
R-squared	0.014	0.068
	0.014	0.000

Note: Standard errors clustered by group. Dependent variable is whether the individual had the smallest total difference between the individual and group rankings.

** p<0.01, ** p<0.05, * p<0.1

actual influence over group outcomes. Regardless of the expertise they bring to the table and how much they "lean in" to the deliberative process, these highly talented women are unable to shape the final decisions of the group as much as men are.

5 Mechanisms

We now turn to an examination of some potential mechanisms for token women's lower levels of influence. Because of the richness of the data we collected, we are able to explore a number of potential mechanisms. However, it is important to note that even though we are able to compare across conditions in these analyses, many rely on measurements of post-treatment behavior, such as talk time and task performance. Hence, we do not interpret these models as causal. Nevertheless, we find these correlations important and believe they provide valuable insights into observed patterns and mark useful directions for direct testing future research.

Converting Task Performance to Influence

In an ideal world, proficiency with a task should lead to greater levels of influence in group deliberation about that task. The analysis reported in Table 5 explores how this dynamic plays out among men and women in 1F and 3F groups. Because participants had completed the Lost on the Moon and Lost at Sea tasks on their own before deliberation, we can measure the absolute value of the difference between an individual's pre-deliberation ranking and experts' rankings of items. This variable captures deviations from the experts' answers, meaning that lower scores are indicative of better task performance in these models. We estimate the following equation using OLS:

$$Y_i = \alpha + TaskPerformance_i\beta + Female_i\gamma + Female_i*TaskPerformance_i\delta + X_i\theta + \epsilon_i \quad (3)$$

The dependent variable is the individual's average number of influence votes across the two labs. The interaction between *Task Performance* and *Female* captures whether task performance matters differently for men and women. Table 5 reports our results separately for each condition with and without our standard controls and clustering standard errors at

the group level.

Table 5: Converting Task Performance to Lab Influence, by Gender and Experimental Condition

	(1) 1F	(2) 1F	(3) 3F	(4) 3F
	11	11	эг	эг
Task Performance	-0.029**	-0.032***	-0.000	0.005
	(0.012)	(0.011)	(0.013)	(0.014)
Female	-2.495***	-2.865***	1.340	1.243
	(0.846)	(0.944)	(1.206)	(1.164)
Female x Task Performance	0.036**	0.043**	-0.030	-0.026
	(0.016)	(0.018)	(0.021)	(0.021)
International		0.161		-0.156
		(0.323)		(0.564)
Age		-0.020		0.115***
		(0.056)		(0.038)
White		0.096		-0.170
		(0.270)		(0.549)
Married		0.030		-0.018
		(0.152)		(0.194)
GPA		-0.613		0.316
		(0.528)		(0.503)
Constant	2.594***	5.404*	1.157	-2.833
	(0.580)	(2.698)	(0.689)	(2.407)
Observations	193	192	180	178
R-squared	0.092	0.098	0.035	0.081

Note: Standard errors clustered by group. Dependent variable is the individual's average number of influence votes. Excluded category is 3F groups.

** p<0.01, ** p<0.05, * p<0.1

In the 1F groups, we find that for men, better individual performance on the task is correlated with being ranked as more influential in group deliberation. The negative coefficient on task performance tells us that for every point closer to the correct answer, the average number of influence votes received by men *increased* by 0.29. However, women receive none of these positive returns for task performance. The large negative coefficient for women highlights women's overall low levels of influence relative to men in the 1F condition, as we have already shown. Moreover, the interaction term between female and task performance indicates that task performance matters differently for men than for women. Here the positive

interaction term suggests that 1F groups actually *penalize* women who are better at the task and reward women who perform comparatively poorly.

By contrast, there is no correlation between task performance and influence votes in the 3F groups. From an efficient use of human capital standpoint, this may not be ideal. But, the efficient conversion of task performance into influence for men that we see in the 1F groups must be weighed against the opposite pattern for women on these teams. This has policy implications for organizations that care about the egalitarian treatment of employees.

Laboratory Speaking Turns

Prior laboratory research has shown a strong effect of group gender composition on women's participation in deliberation among members of the general population (Karpowitz and Mendelberg, 2014). We explore this potential mechanism by estimating the following equation:

$$Y_i = \alpha + 1F_i\beta + Female_i\delta + 1F_i * Female_i\gamma + X_i\theta + \epsilon_i$$
(4)

The dependent variable is the proportion of speaking turns each individual takes, averaged across the two lab sessions. These are individual-level data, and the interaction between the 1F condition and gender highlights the difference-in-differences in women's speaking turns across conditions. Table 6 reports our results. In addition to the standard controls in column (2), we also include the length of group conversation. We find that women in the 1F condition take a somewhat smaller proportion of the speaking turns than women in the 3F groups, but this effect is substantively small and is not longer statistically significant in the presence of controls. In other words, in both conditions, the women in our sample appear to be "leaning in" by participating actively in discussions.

Table 6: Relationship between Experimental Conditions and Speaking Turns

	(1)	(2)
1F Condition	0.013**	0.011**
	(0.006)	(0.005)
0F Condition	0.010*	0.005
	(0.005)	(0.005)
Female	0.014	0.016**
	(0.009)	(0.007)
$1F \times Female$	-0.027*	-0.020
	(0.014)	(0.013)
Length of Group Conversation	-0.000	-0.000
	(0.000)	(0.000)
International		-0.047***
		(0.012)
Age		0.001
		(0.001)
White		0.010
		(0.011)
Married		0.011**
		(0.004)
GPA		0.021
		(0.013)
Constant	0.199***	0.100
	(0.008)	(0.065)
Observations	527	523
R-squared	0.010	0.097

Note: Standard errors clustered by group. Dependent variable is the individual's average proportion of speaking turns. Excluded category is 3F groups. ** p<0.01, ** p<0.05, * p<0.1

Converting Speaking Turns to Influence

What happens when these women participate in deliberations? Is there a relationship between speaking turns and influence, and if so, is that relationship consistent across genders and conditions? We explore this by estimating the following equation:

$$Y_i = \alpha + SpeakingTurns_i\beta + Female_i\gamma + Female_i * SpeakingTurns_i\delta + X_i\theta + \epsilon_i \quad (5)$$

The dependent variable is the individual's average number of influence votes and we report

the results in Table 7 separately by condition and clustering standard errors at the group level.

We find a strong positive correlation between a number of speaking turns and being seen as influential in both 1F and 3F groups. However, in 1F groups, that relationship is driven almost entirely by men, as can be seen in the large and positive coefficient attaching to the speaking turns variable. The large and negative interaction between participant's gender and speaking turns means that the ability to turn conversational participation into influence evaporates for women. Computing the marginal effect of speaking turns for both men and women, we find that men's returns for speaking up are nearly six times greater than women's.

Table 7: Converting Speaking Turns to Lab Influence, by Gender and Experimental Condition

	(1) 1F	(2) 1F	(3) 3F	(4) 3F
-				
Speaking Turns	6.163***	6.585***	8.277***	9.163***
	(1.840)	(1.758)	(2.842)	(2.830)
Female	0.392	0.435	0.376	0.453
	(0.450)	(0.601)	(0.844)	(0.855)
Speaking Turns x Female	-5.119**	-5.116*	-3.705	-3.674
	(2.208)	(2.729)	(4.496)	(4.549)
International		0.126		0.383
		(0.314)		(0.490)
Age		$0.017^{'}$		0.120***
		(0.054)		(0.035)
White		$0.047^{'}$		-0.143
		(0.263)		(0.432)
Married		0.001		-0.088
		(0.153)		(0.180)
GPA		-0.611		0.077
0.111		(0.513)		(0.518)
Constant	-0.131	1.640	-0.432	-3.626
Constant	(0.377)	(2.734)	(0.520)	(2.211)
	(0.511)	(2.754)	(0.020)	(2.211)
Observations	193	192	180	178
0				0.151
R-squared	0.107	0.114	0.092	0.151

Note: Standard errors clustered by group. Dependent variable is the individual's average number of influence votes. Excluded category is 3F groups.

^{**} p<0.01, ** p<0.05, * p<0.1

The overall relationship between speaking turns and influence in the 3F groups is even stronger than in the 1F groups. But unlike in 1F groups, this relationship is not gendered to the same extent. Although the point estimate for the interaction term between *Speaking Turns* and *Female* is negative, suggesting the possibility that women may also face some disadvantages even when they comprise the gender majority, it is considerably smaller and nowhere near statistically significant.

When these results are combined with the findings about returns to task performance, the message is sobering. In 1F groups, women experience a negative correlation between being good at the task and influence and speaking up is not particularly effective. These findings should cast significant doubt on the idea that token women can control the factors that lead to being seen as influential. Instead, those factors appear to be largely structural in our data. As mentioned above, these are post-treatment variables and need to be interpreted with caution. However, these findings suggest that the internal dynamics of how influence is distributed in 1F and 3F groups are quite distinct from each other.

Source of Influence Votes

What is the source of the difference in votes for women in 1F and 3F groups? Perhaps the results are the effect of lone women questioning their own contributions to group discussions and being less likely to self-promote?¹⁵ If so, the inequality could be ameliorated by training token women to give themselves more credit. Or perhaps men's behavior is changing across the conditions? Table 8 and Figure 3 address these questions.

Table 8 suggests that token women feeling uncomfortable voting for themselves is not responsible for the main effects. Assigned condition has no influence on whether any participant (male of female) ever voted for themselves. Among women, there is no statistically

¹⁵See for example Exley and Kessler (2019) study documenting gender differences in self-promotion. https://users.nber.org/~kesslerj/papers/ExleyKessler SelfPromotion.pdf

Table 8: Effect of Experimental Conditions on Probability of Voting for Self, by Gender

	(1)	(2)	(3)	(4)
	Women	Women	Men	Men
0F Condition			0.024	0.031
			(0.146)	(0.148)
1F Condition	-0.183	-0.134	0.024	0.011
	(0.269)	(0.280)	(0.161)	(0.167)
International		0.781		0.303
		(0.575)		(0.355)
Age		0.063		-0.010
_		(0.043)		(0.042)
White		0.996		$0.017^{'}$
		(0.658)		(0.297)
Married		-0.340		-0.097
		(0.308)		(0.153)
GPA		0.908		-0.061
0.2.2.		(0.664)		(0.420)
Constant	-0.896***	-4.266***	-1.025***	-1.029
0011000110	(0.152)	(1.192)	(0.163)	(1.260)
	(0.102)	(1.102)	(0.100)	(2.200)
Observations	147	145	380	378

Note: Standard errors clustered by group. Dependent variable is a dichotomous indicator of whether the participant ever voted for him or herself in either lab task. Cell entries are probit coefficients.

** p < 0.01, ** p < 0.05, * p < 0.1

robust difference between 1F and 3F conditions in likelihood of self-voting, and among men, we find the same, even when we include 0F groups. That result implies that the treatment works through others' perceptions of who is influential, not one's perception of their own influence.

In Figure 3, we explore the possibility that our results are driven by homophily by examining the percentage of participants who ever voted for a woman as most influential in either lab task. This is the most generous way to capture the respondent's willingness to grant high levels of influence to women. The figure reveals that regardless of the presence or absence of controls, both men and women were much less likely to cast even a single influence vote for women in the 1F condition. The magnitude of the bias against women is startlingly

large.¹⁶ If influence votes were allocated at random, we would expect that approximately 36 percent of participants would choose a woman as most influential at least once across the two lab sessions, an expectation that is shown by the white bar in the figure.¹⁷ Instead, only 18% of both men and women actually voted for a woman at least once — only half the expected value.

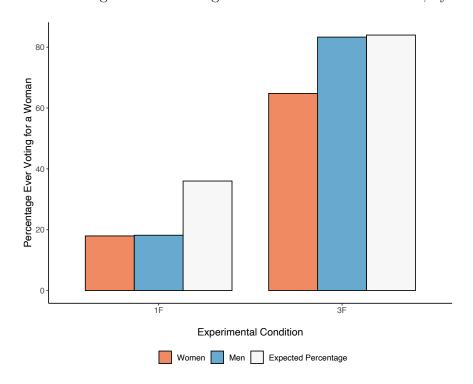


Figure 3: Percentage Ever Choosing a Woman as Most Influential, by Gender

Note: Bars represent the percentage of respondents ever voting for a woman as most influential in either lab session. (See Table B4 for results with controls.)

As the figure shows, however, results are very different in the 3F condition. In groups with a majority of women, both men and women were substantially more likely to choose a woman as most influential at least once, and we see little evidence that this difference is driven primarily by women. If anything, the opposite is true. Following the same approach

 $^{^{16}}$ Results are robust to controls. See Appendix Table B4 for details.

¹⁷This baseline expectation is generated by computing 1-(Pr(Choosing a Man)*Pr(Choosing a Man)). Because men comprise 80 percent of the 1F groups, the expected value is 1-(0.8*0.8)=1-0.64=0.36*100=36%.

we used in the 1F condition, if influence votes were allocated at random in 3F groups, we would expect about 84% of participants to vote for a woman at least once. The actual result among men was 83%. In other words, the structural changes in group gender composition essentially erase men's unwillingness to vote for women. By contrast, only 65% of women voted for a woman as most influential in 3F groups. With this pattern of results, we see little reason to conclude that homophily among women drove women's increased influence in 3F groups. To the extent that men and women differed in the 3F condition, women, not men, were less likely to see women as authoritative.

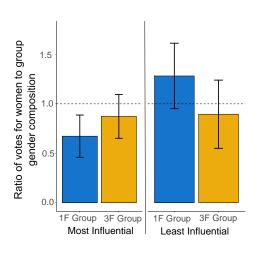
6 Medium Term Outcomes and Dynamics

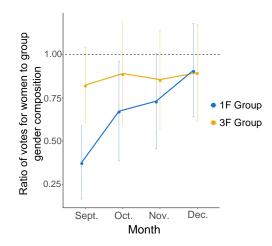
Survey Results over Time

To this point, we have documented persistent challenges for women's ability to generate both actual and perceived influence in their groups, especially token women. We do, however, find some good news about women's empowerment in these groups. In addition to the laboratory tasks in September and December, we collected survey data from the participants over the course of the semester. Once per month, students were asked, among other things, "Who has been the most influential member of your group during group discussion and collaboration?" and were presented with a drop-down menu of their group members (including themselves) to choose from.

The monthly survey data echoes much of what we find in the lab, but with a twist. As the first panel of Figure 4 shows, the same basic pattern shows up in the surveys: relative to baseline expectations, lone women are less likely to be seen as most influential and more likely to be seen as least influential than we would predict given their prevalence in the group and 3F women fare better. But as the second panel shows, these findings are driven primarily by survey responses at the beginning of the semester. In contrast to the lab, where we saw

Figure 4: Survey Influence Votes





Note: 95% confidence intervals. Bars represent the average proportion of votes for women divided by the proportion of women in the group. (See Table A6 for full results.)

no changes over time, more global assessments of women's influence in the 1F groups do seem to improve. By December they are indistinguishable from the evaluations 3F women are getting. These point estimates are still somewhat below the line that indicates they are getting the same number of votes as their presence in the group, but the confidence interval includes that line. Appendix Tables A6 and A7 confirm these findings.

To our knowledge, the distinction between how global evaluations change over time and how specific task-based evaluations do not change over time has not been previously identified or studied and merits further research. Our best guess is that general assessments of authority can build over time, but that discrete tasks more or less reset the clock. In the discussion section, we discuss the implications of this pattern further.

Academic Outcomes

We also examine data on academic outcomes from administrative records. We find no statistically significant differences between treatment conditions or between men and women in participants' grade point averages in the program at the conclusion of their Fall Semester or at the conclusion of their junior year (see Appendix Table D4). Given the fact that their entering GPAs were also similar, this is perhaps not surprising.

However, we should be cautious about assuming that this average treatment effect means there was no relationship between treatment condition and future academic performance for any participants. In Table 9, we explore the relationship between student GPA in each semester's accounting courses and influence, controlling for academic performance in prerequisite courses.

Table 9: Relationship between Group Influence and Performance

	(1) Women (2)		(3)	(3) (4) Men		
	1F	3F	0F	1F	3F	
Fall Semester						
Influence Votes Received	0.215***	0.092***	0.076***	0.074***	0.079***	
	(0.063)	(0.023)	(0.015)	(0.019)	(0.023)	
GPA (Prerequisites)	$0.305^{'}$	0.682***	1.044***	0.814***	0.776***	
, - ,	(0.333)	(0.144)	(0.154)	(0.129)	(0.198)	
R-squared	$0.453^{'}$	0.334	0.410	0.348	0.478	
Second Semester						
Influence Votes Received	0.153**	0.078***	0.082***	0.058***	0.061**	
	(0.065)	(0.025)	(0.022)	(0.021)	(0.024)	
GPA (Prerequisites)	$0.621^{'}$	0.702***	0.755***	0.783***	0.883***	
` '	(0.375)	(0.182)	(0.177)	(0.125)	(0.133)	
R-squared	$0.337^{'}$	0.319	0.288	$0.295^{'}$	0.469	
Observations	38	107	153	154	71	

Note: Cell entries are OLS regression coefficients. Standard errors clustered by group. Dependent variable is the student's GPA in second semester accounting classes. Influence votes is defined as the average survey influence votes received during the semester. Controls for international student, age, race, and marital status are included in regression models but not shown. Full results available in the appendix.

In these models, we find that survey influence votes over the course of the semester are correlated with final grades both that semester and the following one. This correlation is much stronger for 1F women, though. And, perhaps even more surprisingly, once controls for influence votes are added to the model, prerequisite GPA has no relationship with future

grades for 1F women, despite being a strong correlate for all other participants.

This result is sobering and cause for future research. We show that achieving influence is challenging for token women, and it appears that the ability to achieve such influence may have long term consequences: token women are only able to convert their academic preparation into better program grades when they achieve influence. Put differently, token women who were able to be seen as influential in their groups did exceptionally well, while those who were not seen as influential faltered regardless of how prepared they were for the program as they entered. This pattern persisted after the Fall Semester into later work in the program — in other words, even after token women were reassigned to different groups.¹⁸

We also find some fascinating contradictions as we look at participants' labor market plans (Appendix Table D4). Token women successfully found internships, and those who applied for jobs received offers at a fairly similar rate as others did. There are overall gender differences in labor market plans, but there are no differences between 1F and 3F women. However, token women are quite a bit more likely to express a plan to attend graduate school than any other group. This difference falls just short of statistical significance, but it is quite striking. What, if anything, to make of this finding is hard to know. It could be that the experiences of being the token woman increased women's ambition. And/or it could be that the experiences of being the token woman caused women to believe that gaining additional credentials would be necessary to be taken seriously in the labor market. These longer-term potential effects of experiencing token status, too, deserve additional research.

¹⁸The influence votes received in the second semester analysis are Fall, not second semester, influence. In the second semester, the coefficient attaching to prerequisite GPA is not statistically significant and still smaller than in the other models, though the differences are less stark than in the fall.

7 Discussion

Across multiple indicators, these results show a pattern of devaluing women's participation and expertise in work teams, especially when they are in the minority. Token women face a steep uphill battle as they try to exert influence and acquire authority, and the typical "lean in" strategies cannot overcome these barriers. It's not difficult to imagine what effect this devaluation might have on women's opportunities to advance in their workplaces. For example, if women have difficulty shaping group decisions on a project, it will be difficult for them to make the case that they ought to get a promotion for their contributions to that project. If women are less likely to be chosen as a team spokesperson, they are less likely to get the kind of face time with bosses and clients that leads to new opportunities and a reputation as a rising star. While we find that peers gradually seem to acknowledge token women's leadership in the abstract over a period of time, things like salary negotiations often hinge on an employee being able to point to specific contributions to team success. Token women face unique challenges in being able to do this that may compound across settings and possibly throughout their career.

Interestingly, we do not find the same kind of group gender composition treatment effects when we ask participants to identify the most and least supportive members of their group. As Figure D1 and Table D3 in the appendix show, women receive these votes at the rates we would expect in both 1F and 3F conditions. In fact, there is evidence that rather than being seen as influential, token women with high grades entering the program are eventually seen as highly supportive. Given the close cultural tie between authority and masculinity and supportiveness and femininity (Jamieson et al., 1995; Manne, 2017), one wonders the extent to which sexism plays a role in these findings. Our pretreatment measures of sexism suggest that men in our sample are considerably more sexist than women (Table A4), so a 1F environment is simply more deeply saturated in sexist beliefs than a 3F environment.

However, it is important to remember that on average the men in the 3F condition express equal baseline levels of sexism as the men in the 1F. Despite this, their behavior is significantly more egalitarian. In other words, random assignment ensures that the differences across the conditions are not a result of differences in the attitudes men and women bring to their teams. This echoes the argument that others have made that altering structures and institutions is likely to be more effective in reducing sexist behavior than attempting to alter beliefs (Bohnet, 2016).

Do we know anything about the traits of women in the 1F conditions who are able to be influential? Table D2 suggests that a strong preexisting sense of self-efficacy may be an important buffer against the devaluation from men that lone women receive in these groups. In other words, confidence matters for token women in a way that it does not matter for other women or for men. Understanding the source of this self-efficacy is far beyond the scope of this paper, but there is intriguing research that suggests experiences like single sex schooling may paradoxically better prepare girls for later competition with boys (Booth and Nolen, 2012). Hence, interventions that focus on child and young adult gender socialization may be fruitful avenues for future research.

Beyond that, there are a number of other questions that our research cannot answer but which point to excellent extensions and avenues for future research. For example, to what extent are our findings about tokenism versus about gender? Sample size limitations and the relative shortage of women in our study population prevented us assigning groups with token men. Previous laboratory work suggests that men in female-dominated settings do not face the same disadvantages as women in male-dominated settings (Karpowitz and Mendelberg, 2014; Ott, 1989), but to our knowledge this has not yet been tested in a field experimental setting. Furthermore, to what extent are our results driven by the 1F woman being the lone woman versus just being outnumbered? The literature on gender and critical mass is robust, but generally not well causally identified (Sarah and Mona, 2008; Dahlerup,

2006; Joecks et al., 2013; Kanter, 1977). We had a small number of groups with two women and replicate our analyses with them grouped in with the 1F women. We find few differences in our results (Appendix C) when these groups are included in the analysis. Nevertheless, much work remains to understand the details of how gender composition changes group behavior. Finally, as the workplace increasingly moves online, questions arise about the role that technology plays in exacerbating or ameliorating gender gaps in deliberative settings. How does participation in a conference call or Zoom meeting compare to in-person discussions among colleagues?

Our findings suggest there are strong reasons to investigate further how the gender composition of a workplace contributes to persistent gender gaps in participation, pay and advancement, especially in historically male-dominated sectors. In this paper, we show that even when women are highly qualified and do everything "right," women's influence is quite clearly limited in settings where they are outnumbered.

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Appendix A: Analysis disagregated by labs and months

Table A1: Lab Influence Votes For September Lab

	(1)	(2)	(3)	(4)
VARIABLES	Most Influential	Most Influential	Least Influential	Least Influential
1F Condition	-0.390**	-0.491***	0.597**	0.586*
	(0.179)	(0.182)	(0.284)	(0.300)
Average GPA (Group)		-0.872		-0.725
		(1.459)		(2.401)
Average Age (Group)		0.183*		0.098
		(0.104)		(0.172)
International Student in Group		0.292		-0.288
		(0.208)		(0.342)
Proportion White		1.431*		-1.038
		(0.792)		(1.303)
Number of Married Students in Group		-0.036		-0.216
		(0.091)		(0.150)
Constant	0.852***	-1.449	1.019***	2.879
Observations	75	75	75	75
R-squared	0.061	0.163	0.057	0.098

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group. ***p < 0.01, **p < 0.05, *p < 0.1

Table A2: Lab Influence Votes For November Lab

	(1)	(2)	(3)	(4)
VARIABLES	Most Influential	Most Influential	Least Influential	Least Influential
AD CO. 199	0.401**	0 70044	0 85044	0 85544
1F Condition	-0.481**	-0.506**	0.750**	0.755**
	(0.200)	(0.213)	(0.301)	(0.322)
Average GPA (Group)		1.911		1.970
		(1.706)		(2.582)
Average Age (Group)		0.067		0.058
		(0.122)		(0.185)
International Student in Group		-0.077		-0.131
•		(0.243)		(0.368)
Proportion White		$0.192^{'}$		-0.718
		(0.926)		(1.401)
Number of Married Students in Group		-0.010		-0.066
		(0.106)		(0.161)
Constant	0.942***	-7.958	0.975***	-7.044
	(0.144)	(7.388)	(0.217)	(11.180)
Observations	75	75	75	75
R-squared	0.073	0.098	0.078	0.093

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group.

***p<0.01, **p<0.05, *p<0.1

Table A3: Lab Spokesperson Votes By Lab

	(1)	(2)	(3)	(4)
VARIABLES	Lab 1	Lab 1	Lab 2	Lab 2
1F Condition	-0.458**	-0.569***	-0.216	-0.331
	(0.177)	(0.181)	(0.239)	(0.247)
Average GPA (Group)		-0.764		0.630
		(1.448)		(1.979)
Average Age (Group)		0.171		0.148
		(0.104)		(0.142)
International Student in Group		0.156		0.060
		(0.206)		(0.282)
Proportion White		0.466		0.602
		(0.786)		(1.074)
Number of Married Students in Group		0.132		0.228*
		(0.090)		(0.123)
Constant	0.926***	-0.806	0.972***	-5.732
	(0.127)	(6.269)	(0.172)	(8.568)
Observations	75	75	75	75
R-squared	0.084	0.176	0.011	0.091

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group. ***p<0.01, **p<0.05, *p<0.1

Table A4: Demographics and Pre-treatment Attitudes By Condition

	0F Groups	1F Groups	3F Groups
Age	23.8	23.6	23.1 ^B
White	90.8	90.6	88.8
Married	39.9	32.3	28.5
GPA	3.80	3.78	3.79
Leadership experience	45.4	48.7	53.1
International student	3.9	8.8	10.0
Parental income category	4.3	4.2	4.0
Political affiliation scale	5.8	5.7	5.6
Ambivalent sexism index	56.1	55.1	$46.0^{\rm B}$
Egalitarianism index	51.8	56.3^{A}	56.4
Individualism index	69.9	71.4	68.0^{B}
Pro-sociality index	71.2	72.9	73.1
Conflict avoidance index	43.5	43.0	45.2
Individual efficacy index	70.1	67.8	63.0^{B}
Group efficacy index	64.1	62.5	57.6^{B}
N	153	192	179

Note: $^{\rm A}$ shows significance at 5 percent level between 0F and 1F groups. $^{\rm B}$ shows significance at 5 percent level between 1F and 3F groups.

7.1 Speaking Turns

Table A5: Relationship between Experimental Conditions and Speaking Turns

	(1)	(2)	(3)	(4)
	Lab 1	Lab 1	Lab 2	Lab 2
1F Group	0.009	0.007	0.016**	0.014**
	(0.006)	(0.006)	(0.007)	(0.006)
0F Group	0.006	0.002	0.013**	0.008
	(0.006)	(0.006)	(0.006)	(0.005)
Female	0.008	0.012	0.020*	0.020**
	(0.010)	(0.009)	(0.010)	(0.009)
$1F \times Female$	-0.016	-0.009	-0.037**	-0.030**
	(0.015)	(0.015)	(0.016)	(0.015)
Length of Group Conversation	-0.000	-0.000	-0.000	-0.000**
	(0.000)	(0.000)	(0.000)	(0.000)
International		-0.046***		-0.055***
		(0.013)		(0.014)
Age		0.001		-0.000
		(0.001)		(0.001)
White		0.012		0.005
		(0.012)		(0.012)
Married		0.008*		0.012**
		(0.004)		(0.006)
GPA		0.026*		0.015
		(0.015)		(0.015)
Constant	0.202***	0.059	0.193***	0.143**
	(0.008)	(0.077)	(0.007)	(0.072)
Observations	522	518	513	509
R-squared	0.003	0.075	0.014	0.090

Note: Standard errors clustered by group. Dependent variable is the individual's average proportion of speaking turns. Excluded category is 3F groups. $^{**} p < 0.01, ^{**} p < 0.05, ^* p < 0.1$

Table A6: Survey Influence Votes

	(1)	(2)	(3)	(4)
	Most Influential	Most Influential	Least Influential	Least Influential
1F Condition	-0.201	-0.230	0.387	0.368
	(0.158)	(0.166)	(0.243)	(0.258)
Average GPA (Group)	, ,	$2.054^{'}$,	-1.000
2,		(1.331)		(2.064)
Average Age (Group)		0.108		$0.076^{'}$
3 3 (1)		(0.095)		(0.148)
International Student in Group		0.011		$0.071^{'}$
		(0.190)		(0.294)
Proportion White		-0.126		-1.120
-		(0.722)		(1.120)
Number of Married Students in Group		-0.026		$0.025^{'}$
•		(0.083)		(0.129)
Constant	0.873***	-9.261	0.895***	3.833
	(0.114)	(5.763)	(0.175)	(8.935)
Observations	75	75	75	75
R-squared	0.022	0.068	0.034	0.066

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group. $***p{<}0.01, **p{<}0.05, *p{<}0.1$

Table A7: Survey Influence Votes By Month

	(1)	(2)	(3)	(4)
	September	October	November	December
1F Condition	-0.488***	-0.282	-0.115	-0.009
	(0.162)	(0.222)	(0.216)	(0.207)
Average GPA (Group)	1.467	2.818	1.895	2.660
	(1.297)	(1.776)	(1.729)	(1.660)
Average Age (Group)	0.118	0.155	0.049	0.111
	(0.093)	(0.127)	(0.124)	(0.119)
International Student in Group	-0.145	0.058	0.031	0.076
	(0.185)	(0.253)	(0.247)	(0.237)
Proportion White	-1.011	0.377	-0.534	0.581
	(0.704)	(0.964)	(0.938)	(0.901)
Number of Married Students in Group	0.038	0.027	-0.043	-0.107
	(0.081)	(0.111)	(0.108)	(0.103)
Constant	-6.544	-13.770*	-6.946	-12.159*
	(5.616)	(7.689)	(7.485)	(7.187)
Observations	75	75	75	75
R-squared	0.163	0.070	0.032	0.063

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group. ***p<0.01, **p<0.05, *p<0.1

Appendix B: Robustness checks

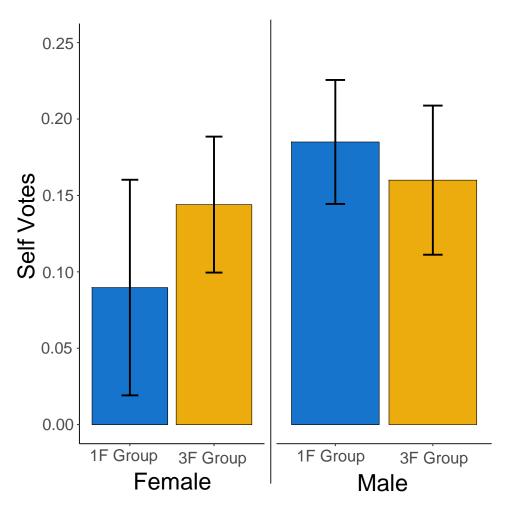


Figure B1: Votes for Self as Most Influential

Note: 95% confidence intervals. Bars represent the average proportion of votes for women divided by the proportion of women in the group. (See Table 3 for full results)

Table B1: Most Influential Over Group Ranking

	(1)	(2)
VARIABLES		
Female	-0.060*	-0.063*
	(0.030)	(0.033)
1F Group	-0.065	-0.071
	(0.050)	(0.050)
1F X Female	0.007	0.017
	(0.054)	(0.052)
International		0.026
		(0.063)
Age		-0.006
		(0.007)
White		-0.004
36		(0.053)
Married		0.011
		(0.031)
Task Performance		0.331**
C 1: T		(0.163)
Speaking Turns		0.768**
CDA		(0.322)
GPA		0.097
Ctt	0.000***	(0.076)
Constant	0.208***	-0.378
	(0.043)	(0.398)
Observations	373	370
R-squared	0.014	0.055

Note: Standard errors clustered by group. Influence is calculated by taking the percentage of individual rankings that are within 3 of the group ranking. Those who had the highest percentage were determined to be most influential on group decision.

^{**} p<0.01, ** p<0.05, * p<0.1

Table B2: Influence Over Final Group Ranking - Percent of Individual Rankings Within 3 of Group

	(1)	(2)
Female	-0.047***	-0.038**
гешаве		
1E Crown	(0.015) 0.043	(0.015) 0.029
1F Group		
1D V D 1	(0.027)	(0.024)
1F X Female	-0.024	-0.001
T 1	(0.021)	(0.022)
International		-0.052*
		(0.028)
Age		0.005
		(0.003)
White		0.004
		(0.028)
Married		0.006
		(0.013)
GPA		-0.050
		(0.035)
Task Performance		0.443***
		(0.077)
Constant	0.665***	0.479***
	(0.025)	(0.159)
Observations	373	370
R-squared	0.071	0.189

Note: Standard errors clustered by group. Influence is calculated by taking the percentage of individual rankings that are within 3 of the group ranking ** p<0.01, ** p<0.05, * p<0.1

Table B3: Influence Over Final Group Ranking - Total Difference Between Individual and Group Ranking

	(1)	(2)
Female	-0.050***	-0.027
	(0.018)	(0.019)
1F Group	0.001	-0.010
	(0.048)	(0.019)
1F X Female	-0.038	-0.003
	(0.025)	(0.025)
International		-0.041
		(0.028)
Age		-0.001
		(0.003)
White		0.022
		(0.027)
Married		0.011
		(0.014)
GPA		0.006
		(0.030)
Task Performance		0.814***
		(0.036)
Constant	0.506***	0.042
	(0.034)	(0.160)
Observations	373	370
R-squared	0.018	0.702

Note: Standard errors clustered by group. Individual group difference is made by taking the absolute value of the difference of each item ranking by the individual and the group. We then divide the minimum difference between the individual and group rankings by the individual ranking. (So, an individual group difference ratio of 1 would be the person with the lowest absolute difference.)

** p<0.01, ** p<0.05, * p<0.1

Table B4: Effect of Experimental Conditions on Probability of Voting for a Woman, by Gender

	(1)	(2)	(3)	(4)
	Women	Women	Men	Men
1F Condition	-1.298***	-1.268***	-1.876***	-1.904***
	(0.295)	(0.302)	(0.244)	(0.255)
International		0.233		-0.626
		(0.418)		(0.467)
Age		0.101*		-0.099
		(0.053)		(0.073)
White		0.435		-0.352
		(0.376)		(0.382)
Married		-0.572**		0.152
		(0.255)		(0.213)
GPA		0.766		-0.313
		(0.504)		(0.574)
Constant	0.380**	-5.070**	0.967***	4.841
	(0.177)	(2.444)	(0.194)	(3.320)
Observations	147	145	226	225

Note: Standard errors clustered by group. Dependent variable is a dichotomous indicator of whether the participant ever voted for a woman in either lab task. Cell entries are probit coefficients.

** p < 0.01, ** p < 0.05, * p < 0.1

Appendix C: Analysis including 2F groups

Table C1: Randomization Balance Table By Gender and Condition

	Minority F Female	Majority F	No F Male	Minority F Male	Majority F Male
Age	22.5	22.7	23.8	23.9	23.8
White	76.2	86.9	90.8	94.9	91.5
Married	28.6	23.1	39.9	33.1	36.6
GPA	3.80	3.78	3.80	3.78	3.79
Leadership experience	52.3	53.2	45.4	47.8	52.8
International student	18.6	10.2	3.9	5.7	9.7
Parental income category	3.9	3.9	4.3	4.4	4.1
Political affiliation scale	5.2	5.5	5.8	5.8	5.8
Ambivalent sexism index	44.2	40.8	56.1	57.5	53.9
Egalitarianism index	59.4	56.7	51.8	55.4	55.8
Individualism index	65.1	66.0	69.9	73.4	71.0
Pro-sociality index	72.3	73.1	71.2	72.8	73.0
Conflict avoidance index	49.0	48.4	43.5	41.5	40.3
Individual efficacy index	58.1	59.1	70.1	70.4	69.0
Group efficacy index	54.4	53.9	64.1	64.6	63.1
N	43	108	153	158	71

Note: $^{\rm A}$ shows significance at 5 percent level between no F and minority F groups. $^{\rm B}$ shows significance at 5 percent level between minority F and majority F groups.

Table C2: Randomization Balance Table

	No Female Groups	Minority Female Groups	Majority Female Groups
Age	23.8	23.6	23.1B
White	90.8	91.0	88.8
Married	39.9	32.2	28.5
GPA	3.80	3.78	3.79
Leadership experience	45.4	48.8	53.1
International student	3.9	8.5	10.0
Parental income category	4.3	4.3	4.0
Political affiliation scale	5.8	5.7	5.6
Ambivalent sexism index	56.1	54.7	46.0^{B}
Egalitarianism index	51.8	56.2^{A}	56.4
Individualism index	69.9	71.6	68.0^{B}
Pro-sociality index	71.2	72.7	73.1
Conflict avoidance index	43.5	43.1	45.2
Individual efficacy group	70.1	67.8	63.0^{B}
Group efficacy group	64.1	62.5	57.6^{B}
N	153	192	179

Note: $^{\rm A}$ shows significance at 5 percent level between no F and minority F groups. $^{\rm B}$ shows significance at 5 percent level between minority F and majority F groups.

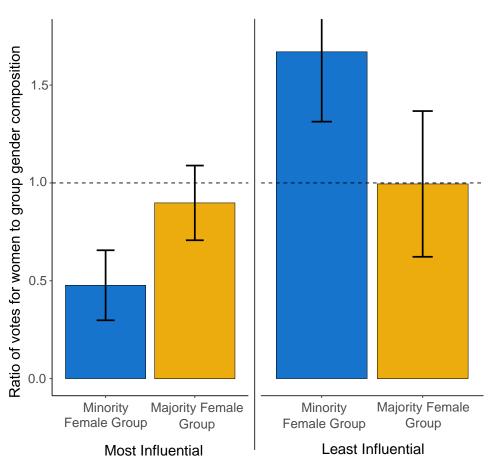


Figure C1: Lab Influence Votes

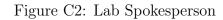
Note: 95% confidence intervals. Bars represent the average proportion of votes for women divided by the proportion of women in the group. (See Table C2 for full results)

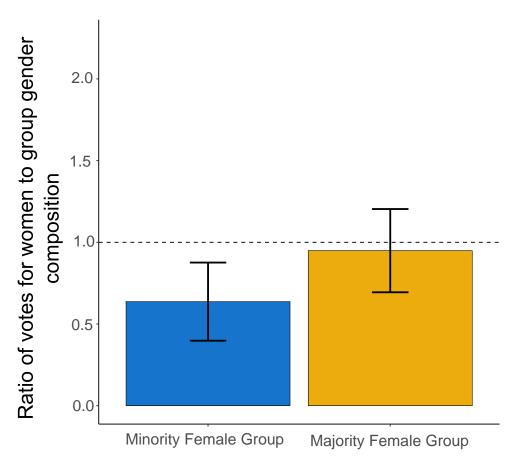
Table C3: Lab Influence Votes

	(1)	(2)	(3)	(4)
VARIABLES	Most Influential	Most Influential	Least Influential	Least Influential
Minority Female Condition	-0.421***	-0.486***	0.692***	0.691**
	(0.133)	(0.138)	(0.259)	(0.273)
Average GPA (Group)		0.665		0.724
		(1.111)		(2.195)
Average Age (Group)		0.125		0.067
		(0.080)		(0.158)
International Student in Group		0.097		-0.213
		(0.160)		(0.316)
Proportion White		0.838		-0.852
		(0.609)		(1.204)
Number of Married Students in Group		-0.016		-0.152
		(0.069)		(0.137)
Constant	0.898***	-5.278	0.995***	-2.231
	(0.097)	(4.841)	(0.189)	(9.569)
Observations	77	77	77	77
R-squared	0.117	0.177	0.087	0.113

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group.

***p<0.01, **p<0.05, *p<0.1





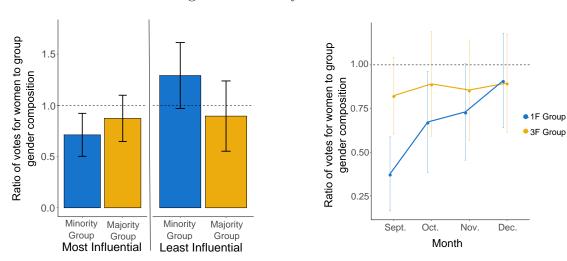
Note: 95% confidence intervals. Bars represent the average proportion of votes for women divided by the proportion of women in the group. (See Table C3 for full results)

Table C4: Lab Spokesperson Votes

	(1)	(2)
VARIABLES		
Minority F Group	-0.216	-0.331
	(0.239)	(0.247)
Average GPA (Group)		0.630
		(1.979)
Average Age (Group)		0.148
		(0.142)
International Student in Group		0.060
		(0.282)
Proportion White		0.602
•		(1.074)
Number of Married Students in Group		0.228*
•		(0.123)
Constant	0.972***	-5.732
	(0.172)	(8.568)
	()	(= 300)
Observations	381	377
R-squared	0.023	0.028

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group. ***p<0.01, **p<0.05, *p<0.1

Figure C3: Survey Influence Votes



Note: 95% confidence intervals. Bars represent the average proportion of votes for women divided by the proportion of women in the group. (See Table C5 for full results)

Table C5: Survey Influence Votes

	(1)	(2)	(3)	(4)
VARIABLES	Most Influential	Most Influential	Least Influential	Least Influential
Minority F Group	-0.161	-0.191	0.396	0.402
	(0.157)	(0.164)	(0.239)	(0.253)
Average GPA (Group)		2.361*		-0.837
		(1.316)		(2.033)
Average Age (Group)		0.097		0.055
		(0.095)		(0.146)
International Student in Group		-0.009		0.062
		(0.190)		(0.293)
Proportion White		-0.060		-1.066
		(0.722)		(1.115)
Number of Married Students in Group		-0.027		-0.001
		(0.082)		(0.127)
Constant	0.873***	-10.209*	0.895***	3.717
	(0.115)	(5.737)	(0.175)	(8.860)
Observations	77	77	77	77
R-squared	0.014	0.067	0.035	0.062

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group. ***p < 0.01, **p < 0.05, *p < 0.1

Table C6: Academic and Job Placement Outcomes

	Minority F Women	Majority F Women	No F Men	Minority F Men	Majority F Men
GPA in fall semester	3.55	3.56	3.55	3.55	3.58
GPA in school year	3.57	3.58	3.57	3.55	3.59
Number of internships	1.12	1.15	1.05	1.04	1.04
Number of job offers	1.5	1.19	1.49	1.49	1.47
Grad school	76.3	58.1_{A}	59.0	58.8	53.1
Full time work plans	31.6	37.6	45.5	43.9	40.6
N	38	93	134	148	64

Note: A refers to a p-value < 0.05.

Number of job offers is conditional on applying for jobs N=12, 43, 65, 78, 30

Appendix D: Additional Analysis

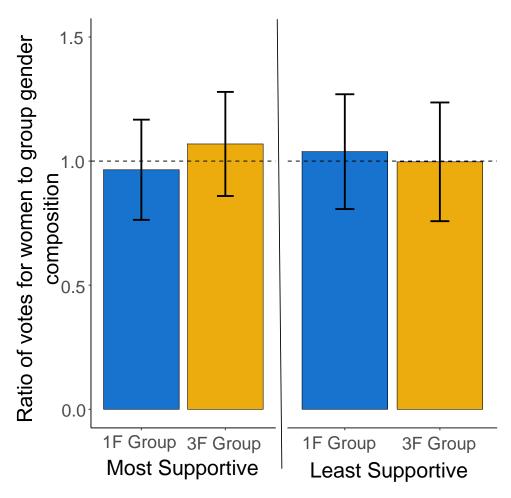


Figure D1: Lab Supportiveness Votes

Note: 95% confidence intervals. Bars represent the average proportion of votes for women divided by the proportion of women in the group. (See Table D1 for full results)

Table D1: Lab Supportiveness Votes

	(1)	(2)	(3)	(4)
VARIABLES	Most Supportive	Most Supportive	Least Supportive	Least Supportive
1F Condition	-0.105	-0.103	0.042	0.026
	(0.149)	(0.157)	(0.171)	(0.182)
Average GPA (Group)		2.213*		-1.432
		(1.257)		(1.458)
Average Age (Group)		0.037		0.030
		(0.090)		(0.104)
International Student in Group		-0.014		0.058
		(0.179)		(0.208)
Proportion White		0.137		-0.098
		(0.682)		(0.791)
Number of Married Students in Group		-0.041		-0.019
		(0.078)		(0.091)
Constant	1.069***	-8.226	0.997***	5.808
	(0.108)	(5.444)	(0.123)	(6.312)
Observations	75	75	75	75
R-squared	0.007	0.057	0.001	0.020

Note: Group-level analysis. Dependent variable coded by taking the proportion of votes for women divided by the proportion of women in the group. $***p{<}0.01, **p{<}0.05, *p{<}0.1$

Table D2: Correlation between Pre-Treatment Attributes and Influence Votes, by Gender and Experimental Condition

	Wo	men		Men	
	(1) 1F	(2) 3F	(3) 0F	(4) 1F	(5) 3F
GPA	0.342	0.371	0.457	-0.753	0.219
	(0.541)	(0.644)	(0.575)	(0.680)	(0.956)
Egalitarianism	-0.399	0.839	-0.840	0.366	1.386
	(0.804)	(0.840)	(0.639)	(0.884)	(1.506)
Individualism	0.888	-1.418**	0.062	0.319	2.269**
	(0.885)	(0.626)	(0.598)	(0.665)	(1.056)
Prosociality	-0.077	1.201	1.251	-1.003	1.461
	(1.328)	(1.210)	(1.241)	(1.067)	(2.004)
Ambivalent Sexism	1.154	-1.237	-0.381	-0.488	-0.822
	(0.739)	(0.819)	(0.758)	(0.763)	(1.648)
Conflict Avoidance	0.906	1.136	-0.100	0.124	-2.192
	(1.353)	(1.083)	(0.834)	(1.103)	(1.515)
Comfort with Confrontation	0.809	0.521	-0.302	0.776	-0.722
	(1.075)	(0.545)	(0.700)	(0.791)	(1.848)
Opinionation	-0.075	0.267	-0.164	0.150	0.026
	(0.182)	(0.225)	(0.128)	(0.125)	(0.182)
Self-Efficacy (Previous Groups)	1.807**	0.158	0.514	1.190	-1.065
	(0.698)	(0.746)	(0.848)	(1.018)	(1.354)
Group Efficacy (Previous Groups)	-0.474	-0.404	0.226	-0.084	0.991
	(0.523)	(0.504)	(0.568)	(0.489)	(0.901)
Risk Acceptance	-0.167	-0.045	-0.040	-0.076	-0.157
	(0.111)	(0.072)	(0.081)	(0.076)	(0.130)
High School Leadership	0.079	-0.004	-0.104	0.164	0.282
	(0.285)	(0.233)	(0.214)	(0.189)	(0.301)
Constant	-2.661	-1.715	-0.541	3.168	0.238
	(3.035)	(3.145)	(2.854)	(3.095)	(5.127)
Observations	38	108	153	153	71
R-squared	0.360	0.156	0.042	0.074	0.143

Note: Standard errors clustered by group. Dependent variable is average influence votes received in the lab tasks.

^{**} p<0.01, ** p<0.05, * p<0.1

Table D3: Correlation between Pre-Treatment Attributes and Supportiveness Votes, by Gender and Experimental Condition

	Wo	men	Men		
	(1)	(2)	(3)	(4)	(5)
	1F	3F	0F	1F	3F
GPA	0.947**	-0.356	0.269	0.149	-0.353
	(0.440)	(0.327)	(0.336)	(0.358)	(0.615)
Egalitarianism	-0.909	-1.514**	0.248	-0.140	1.001*
	(0.842)	(0.668)	(0.429)	(0.495)	(0.590)
Individualism	-1.124	0.269	0.462	-0.456	0.321
	(0.720)	(0.606)	(0.338)	(0.428)	(0.648)
Prosociality	0.537	-0.390	0.590	0.759	0.590
	(1.214)	(0.775)	(0.735)	(0.589)	(1.058)
Ambivalent Sexism	-2.025**	-0.557	0.489	0.169	0.994
	(0.787)	(0.624)	(0.517)	(0.580)	(1.044)
Conflict Avoidance	0.004	0.705	0.843	0.451	0.401
	(1.002)	(0.605)	(0.665)	(0.604)	(1.014)
Comfort with Confrontation	-0.426	0.857	0.166	0.017	1.879*
	(0.867)	(0.574)	(0.593)	(0.465)	(1.074)
Opinionation	0.369**	-0.180	-0.057	-0.039	-0.018
	(0.162)	(0.150)	(0.108)	(0.090)	(0.153)
Self-Efficacy (Previous Groups)	0.168	-0.595	-0.011	-0.018	-0.433
	(0.832)	(0.801)	(0.663)	(0.680)	(1.080)
Group Efficacy (Previous Groups)	0.358	-0.370	0.208	0.272	-0.022
	(0.492)	(0.355)	(0.327)	(0.266)	(0.538)
Risk Acceptance	0.198*	0.108**	-0.031	-0.065	-0.033
	(0.103)	(0.042)	(0.042)	(0.051)	(0.079)
High School Leadership	0.093	0.061	0.087	0.352***	0.205
	(0.232)	(0.173)	(0.130)	(0.118)	(0.227)
Constant	-2.929	3.181**	-1.626	0.104	-0.439
	(1.947)	(1.537)	(1.277)	(1.604)	(2.662)
Observations	38	108	153	153	71
R-squared	0.573	0.195	0.065	0.087	0.137

Note: Standard errors clustered by group. Dependent variable is average influence votes received in the lab tasks.

^{**} p<0.01, ** p<0.05, * p<0.1

Table D4: Academic and Job Placement Outcomes

	1F Women	3F Women	0F Men	1F Men	3F Men
GPA in fall semester	3.54	3.56	3.55	3.55	3.58
GPA in school year	3.56	3.58	3.57	3.55	3.58
Number of internships	1.2	1.15	1.05	1.05	1.04
Number of job offers	1.36	1.19	1.49	1.48	1.47
Grad school plans	73.5	58.1	59.0	58.3	53.1
Full time work plans	32.4	37.6	45.5	43.1	40.6
N	34	93	134	144	64

Note: We found no statistically significant differences at 10 percent. Number of job offers is conditional on applying for jobs $N=11,\,43,\,65,\,75,\,30$

Table D5: Relationship between Group Influence and Fall Semester Performance

	(1)	(2)	(3)	(4)	(5)
	Wo	men		Men	
	1F	3F	0F	1F	3F
Influence Votes Received	0.215***	0.092***	0.076***	0.074***	0.079***
	(0.063)	(0.023)	(0.015)	(0.019)	(0.023)
GPA (Prerequisites)	0.305	0.682***	1.044***	0.814***	0.776***
	(0.333)	(0.144)	(0.154)	(0.129)	(0.198)
International	0.015	-0.095	0.051	-0.076	-0.257**
	(0.148)	(0.075)	(0.081)	(0.067)	(0.099)
Age	-0.006	-0.006	-0.026**	-0.012	0.005
	(0.034)	(0.009)	(0.010)	(0.015)	(0.035)
White	0.096	-0.047	$0.056^{'}$	-0.076	0.082
	(0.119)	(0.048)	(0.060)	(0.061)	(0.117)
Married	$0.074^{'}$	0.183***	0.061	0.063*	-0.005
	(0.080)	(0.058)	(0.041)	(0.036)	(0.057)
Constant	2.299	1.065	$0.060^{'}$	0.751	$0.386^{'}$
	(1.613)	(0.635)	(0.610)	(0.702)	(1.197)
Observations	20	107	159	151	71
Observations	38	107	153	154	71
R-squared	0.453	0.334	0.410	0.348	0.478

Note: Cell entries are OLS regression coefficients. Standard errors clustered by group. Dependent variable is the student's GPA in Fall Semester accounting classes. Influence votes is defined as the average survey influence votes received during the semester.

Table D6: Relationship between Group Influence and Second Semester Performance

	(1)	(2)	(3)	(4)	(5)
	Wo	omen		Men	
	1F	3F	0F	1F	3F
Influence Votes Received	0.153**	0.078***	0.082***	0.058***	0.061**
	(0.065)	(0.025)	(0.022)	(0.021)	(0.024)
GPA (Prerequisites)	0.621	0.702***	0.755***	0.783***	0.883***
	(0.375)	(0.182)	(0.177)	(0.125)	(0.133)
International	0.202*	0.064	0.344***	-0.006	-0.056
	(0.117)	(0.119)	(0.108)	(0.117)	(0.160)
Age	-0.015	-0.004	-0.026	-0.018	0.016
	(0.046)	(0.009)	(0.019)	(0.017)	(0.016)
White	0.173**	0.044	0.044	-0.067	0.316
	(0.082)	(0.078)	(0.058)	(0.102)	(0.221)
Married	0.150	0.183***	0.084	0.089**	-0.016
	(0.119)	(0.055)	(0.051)	(0.041)	(0.051)
Constant	1.239	0.879	1.147	1.000	-0.504
	(1.909)	(0.790)	(0.787)	(0.719)	(0.650)
Observations	38	107	153	154	71
R-squared	0.337	0.319	0.288	0.295	0.469

Note: Cell entries are OLS regression coefficients. Standard errors clustered by group. Dependent variable is the student's GPA in second semester accounting classes. Influence votes is defined as the average survey influence votes received during the semester.

Appendix E: Lab Protocol

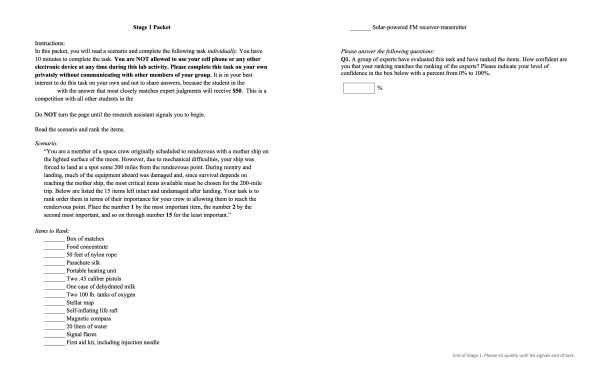
The groups met twice a semester to complete a lab task (once in September, shortly after groups were assigned, and the second time in December, just prior to the final exams). They selected a time they were all able to meet during a certain week of the semester that did not conflict with Accounting exams or assignment due dates. Groups met in small study rooms in the main business building on campus. Each group member was assigned a random seat at the study table. Each group was randomly assigned a research assistant who explained the instructions and facilitated the session. Each participant received a show-up fee in addition to the specific incentives for each individual stage, as described below.

Each session consisted of three stages and subjects were given instructions for each stage separately. In Stage 1, subjects had 10 minutes to complete the ranking activity individually. In September subjects were given the "Survival on the Moon" ranking activity, and in December they were given the "Lost at Sea" activity. The research assistant remained in the room to prevent discussion, collaboration or cheating. Subjects were told that the person with the highest number of correct answers would be paid 50 dollars after the session. See F2 and E2 below for specific subject instructions for September and December respectively.

At the end of Stage 1, the research assistant equipped each individual with a personal recording devise to record subsequent interactions. In Stage 2, the group had 15 minutes to complete the same ranking task, but as a group. Groups were instructed to spend time discussing and completing the task together in collaboration with each other. Subjects were told that the group ranking that had the highest number of correct answers would receive 50 dollars per group member. See E3 for specific subject instructions to this stage.

After this task was completed, each group member was asked to silently complete the exit questionnaire, which included questions about their group interaction during Stage 2 and a spokesperson vote. Specifically, students were asked to select one spokesperson per group. The spokesperson would present the results of the group ranking to a panel of judges at a later date and would have an opportunity to earn an additional 50 dollars for the group (see E4).

Figure E1: Stage 1 - Individual Lab Instructions for September Lab



Stage 1 Packet

Instructions:

In this packet, you will read a scenario and complete the following task *individually*. You have 10 minutes to complete the task. You are NOT allowed to use your cell phone or any other electronic device at any time during this lab activity. Please complete this task on your own privately without communicating with other members of your group. It is in your best interest to do this task on your own and not to share answers, because the student in the with the answer that most closely matches expert judgments will receive \$50. This is a competition with all other students in the Program.

Read the scenario and rank the items.

Scenario:

"You have chartered a yacht with three friends, for the holiday trip of a lifetime across the Atlantic Ocean. Because none of you have any previous sailing experience, you have hired an experienced skipper and two-person crew.

Unfortunately, in mid Atlantic a fierce fire breaks out in the ships galley and the skipper and crew have been lost whilst trying to fight the blaze. Much of the yacht is destroyed and is slowly sinking. Your location is unclear because vital navigational and radio equipment have been damaged in the fire. Your best estimate is that you are many hundreds of miles from the nearest landfall.

You and your friends have managed to save 15 items, undamaged and intact after the fire. In addition, you have salvaged a four-man rubber life craft and a box of matches. Your task is to rank the 15 items in terms of their importance for you, as you wait to be rescued. Place the number 1 by the most important item, the number 2 by the second most important and so forth until you have ranked all 15 items."

Items to Rank:
A sextant
A mirror
A quantity of mosquito netting
A 25-liter container of water
A case of ready-to-eat meals
Maps of the Atlantic Ocean
A floating seat cushion
A 10 liter can of oil/petrol mixture
A small transistor radio
20 square feet of opaque plastic sheeting
A can of shark repellent
One bottle of 160 proof rum
15 feet of nylon rope
2 boxes of chocolate bars
An ocean fishing kit & pole
Please answer the following questions:
Q1. A group of experts have evaluated this task and have ranked the items. How confident are you that your ranking matches the ranking of the experts? Please indicate your level of confidence in the box
below with a percent from 0% to 100%. Please use whole numbers.
%

Stage 2 Packet

Instructions:

In this packet you will read the same scenario as before and complete the following task as a group. You will have 15 minutes to discuss and complete the task. Your discussion will be audio-recorded. A research assistant will notify you when you have 5 minutes and 1 minute left to complete the task. When the 15 minutes have finished, you will turn in the packet to the research assistant. It is in your best interest to complete this task to the best of your group's ability, because the group with the best answer will receive \$50 per group member. It is also important that you not share information about this activity with other individuals or groups so that your chance of winning does not decrease. This is a competition with other groups in the

You may begin the task when the research assistant leaves the room.

If you choose, you may use the scratch paper and pens provided. There are five pieces of scratch paper in the packet. Please remain in your seats and do not use the white board.

Discuss the scenario with your group members and rank the items accordingly.

Scenario:

Items to Rank:

"You are a member of a space crew originally scheduled to rendezvous with a mother ship on the lighted surface of the moon. However, due to mechanical difficulties, your ship was forced to land at a spot some 200 miles from the rendezvous point. During reentry and landing, much of the equipment aboard was damaged and, since survival depends on reaching the mother ship, the most critical items available must be chosen for the 200-mile trip. Below are listed the 15 items left intact and undamaged after landing. Your task is to rank order them in terms of their importance for your crew in allowing them to reach the rendezvous point. Place the number 1 by the most important item, the number 2 by the second most important, and so on through number 15 for the least important."

Box of matches Food concentrate 50 feet of nylon rope Parachute silk Portable heating unit Two .45 caliber pistols One case of dehydrated milk Two 100 lb. tanks of oxygen Stellar map Self-inflating life raft Magnetic compass 20 liters of water Signal flares First aid kit, including injection needle Solar-powered FM receiver-transmitter

Figure E4: Stage 3 - Post-Lab Survey for Labs

Stage 3 Packet	Q1. A group of experts have evaluated this ta you that your <i>group</i> 's ranking from Stage 2 m your level of confidence in the box below with	atches the i	anking of	f the expe	rts? Pleas	e indicate
at ID:	numbers.					
his information will be used to connect your responses to your group for purposes of analysis. identifying information will ever be shared or published, and your responses will be kept	Q2. Have you ever done the task – the scenariosefore in another setting?	o and item	ranking –	found in	Stages 1 a	and 2
mpletely confidential at all times.)	Yes No					
structions: this packet you will answer a series of confidential feedback questions about your group scussion and decisions. Please complete this task on your own privately without mmunicating with other members of your group.	Q3. Below you will find a series of statements not agree with. Please indicate the extent to w following statements by clicking on the approwrong answers to any of these questions. We	hich you ag priate butto	ree or dis n. Remen	agree wit aber, ther	h each of e are no ri	the ght or
r each of these questions, please answer as honestly as possible in regards to how you resonally felt about the group interaction.		Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
te answers you provide here will in no way affect your payment or any other part of your	My opinions were influential in shaping the group discussion and final decision.	0	0	•	0	0
te answers you provide inter with into way arrect, you payment or any outer part of your perfect of your perience today. We simply want to know your honest impressions about the conversation you at had with the other members of your group. Your answers will never be shared with other	I feel like my voice was heard during the group discussion. I would describe myself as a leader in the	0	0	0	0	0
embers of your group.	group discussion. The group discussion helped me better	0	0	0	0	0
ou have 10 minutes to complete the questionnaire. When you have finished, please exit the om with your belongings and Stage 3 Packet. Leave the clipboard and pen on your chair. DO	understand the different ranking possibilities.	0	0	0	0	0
OT TAKE ANY LAB MATERIALS WITH YOU. Please exit quietly so as not to disturb ters while they finish the final stage. The research assistant will collect the packet from you d give you your base payment for your participation in the activity, you will be notified of the	Group work made everything slower and harder to accomplish in Stage 2 compared to Stage 1.	o	•	0	0	0
mpetition results once every group has had an opportunity to participate in the lab activity.	Disagreement among group members made our discussion difficult.	0	0	•	0	0
	A few people dominated the discussion.	0	o	O	O	o
	All different perspectives were welcome in our discussion.	0	0	•	0	0
ease sign below to state that you will NOT share information about this lab activity with other udents in the program until after all groups have had the opportunity to participate in	Members of my group treated each other with respect and courtesy.	0	0	•	0	0
e activity and the presentations have been given. This is in your best interest, because sharing formation will decrease your chance and your group's chance of winning the cash prizes.	Members of my group were too quick to agree with each other.	o	0	0	0	•
4. Of the group members present, select the member who was the <i>most</i> <u>influential</u> member of ur group during the group discussion. This can include yourself. (Indicate using the letter on e nameplate in front of the group members or refer to the seating chart sheet attached to this cket. Even though you may feel that several members of the group were influential, please ark only one option. Choose the person you feel was <i>most</i> <u>influential</u> . If you are in a group of ur members, do not mark option E.) A D B B E C C 5. Of the group members present, select the member who was the <i>least</i> <u>influential</u> member of ur group during the group discussion. This can include yourself. (Indicate using the letter on enameplate in front of the group members or refer to the seating chart sheet attached to this	Q8. How satisfied or dissatisfied are you with Very Satisfied Somewhat Satisfied Neither Satisfied nor Dissatisfied Somewhat Dissatisfied Very Dissatisfied Q9. How satisfied or dissatisfied are you with Very Satisfied					
charles in flow or the group members of reto the seame grant since database of the group were not influential, please ark only <i>one</i> option. Choose the person you feel was <i>least</i> influential. If you are in a group of	Somewhat Satisfied					
ur members, do not mark option E.)	Neither Satisfied nor Dissatisfied					
A D B E	Somewhat Dissatisfied Very Dissatisfied					
C 6. Of the group members present, select the member who was the most supportive member of ur group during the group discussion. This can include yourself. (Indicate using the letter on a maneplate in front of the group members or refer to the seating chart sheet attached to this cket. Even though you may feel that several members of the group were supportive, please and color of the group of the seating chart sheet attached to this cket. Even though you may feel the seating chart sheet attached to this cket. The seating chart sheet attached to this cket. Even though you may feel that several members who was the least supportive member of ur group during the group discussion. This can include yourself. (Indicate using the letter on a nameplate in front of the group members or refer to the seating chart sheet attached to this cket. Even though you may feel that several members of the group were not supportive, please tark only one option. Choose the person you feel was least supportive. If you are in a group of ur members, do not mark option E.)	Q10. Which of the following best captures he others weren't sure or would have professed two who weren't sure or would have the two who weren't sure or would have all members of the group made the other group weren't sure or would have the group weren't sure or would have	e decision for eferred som the decision preferred s decision tog	or the ground the grou	up, but in fferent. he end, the different d in the en	the end, r ere were o	nost ne or
B E						

	r your comments below.
rder that the roup. These articipate in where no me elected group lease mark in the name acket. Evently one op	on will give a 5-minute presentation explaining why their group chose the ranking hey did. Whoever makes the most convincing case will earn another \$50 for their we "presentations" will occur at a later time after all groups have had an opportunity in the lab activity. The spokesperson will be chosen by majority vote. In the case ember receives majority vote, a spokesperson will be randomly chosen from the sup. who you would like to select as your group's spokesperson. (Indicate using the lett epitate in front of the group members or refer to the seating chart sheet attached to thin in if you think multiple people could serve as an effective spokesperson, please mark titon. Choose the person you think would be the best spokesperson for your group. It group of four members, do not mark option E.)
	A D B E C

Appendix F: Survey Instruments

Figure F1: August Survey

Consent Form	 In addition to these surveys, you will also participate in a group activity at a location in the You will receive more information and a separate consent form for that activity. If you allow your data to be used in the scholarly research part of the study, your name will never be published. Only aggregate, unidentifiable data will be published. 							
Introduction	Risks/Discomforts There are minimal risks everyday participation ir standardized, commonl potential emotional disc discomfort, you may ski	the asked questi omfort. If ans	pro ons. Howeve	ogram. The su r, it is possible	urveys you will t you could ence	take will as ounter som		
The is working with several faculty members from other on a research project that will be used for two purposes: 1) an internal program evaluation to assess different aspects of the. experience and 2) a scholarly research study to understand the process of decision-making across individuals and in groups. This scholarly research study is being conducted by r	Benefits There will be no direct by researchers may learn a inform future! scholarly literature on the	bout group dy I team as	namics and d	ecision-makin		study will		
The program requires participation in the tasks below for the internal evaluation as part of your class credit. However, allowing the data we gather from your participation to be used as part of the research study is completely voluntary and will host affect your gade or standing in the program in any way. Signing this consent form signifies your willingness to allow your data to be used in the scholarly research study. All data will be kept confidential.	Confidentiality The research data will be only the researchers will information will be removed.	have access t	o the data. At	the conclusio	n of the study,	all identifyi		
Procedures	Compensation No compensation will b	e given for con	npletion of the	e surveys.				
The initial survey, which should be completed before school begins, will take most people about 15-20 minutes to complete.	Participation While participation in th							
During the semester, the following will occur: 1. You will receive a link to carry out an online survey through Qualtrics about once a month	not have to grant access research purposes. You scholarly research study	have the right	to refuse par	ticipation at a	ny time in the e	external		
1. You will receive a limit, Cut any our a viture is survey stake most people about 10 minutes a complete. Questions will address your perspectives about the program and your group dynamics. Because we want horest feetback, the content of your answers will not affect your grade or standing in the program in any way. Total time commitment for all of the surveys will be approximately 50 minutes.	analysis nor will it be pu study will not jeopardize university.	blished in any	scholarly artic	cle. Refusal to	participate in t	he scholarl		
If you choose to make your data available for the scholarly study, your responses will always be kept completely confidential and your name will never be attached to your responses or the study results in any way. Questions about the Research If you have questions regarding this study, you may contact (In this first set of questi not agree with. Please in following statements by wrong answers to any of Please indicate the exte	dicate the ext clicking on the f these question	ent to which y e appropriate ons.	ou agree or di button. Remer	sagree with ea mber there are	ch of the no right or		
for further information.	statements.							
Questions about Your Rights as Research Participants If you have questions regarding your rights as a research participant contact		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree		
ii you isare questions regulating your rights as a research participant contact	Relative equality of wealth is a good thing. Most people who fail							
Statement of Consent: (Completion of surveys is still required for class credit, but data collected from the survey will	should not blame the system; they have only themselves to blame.			0		0		
not be used in scholarly research if you do not consent.) I have read and understood the above information and consent to participate in this study.	If people work hard they almost always get what they want.	0	0	0	0	0		
I do not wish to participate in the scholarly study and request that any data collected on me be excluded from any published academic articles. I understand that I still must complete the surveys for class credit as part of the internal program evaluation.	Even if people try hard, they often cannot reach their goals.	0		0				
Egalitarianism vs. Individualism	Our society should do whatever is necessary to make sure that					0		
Welcome to the first survey of our internal program evaluation. This first survey is the longest of the surveys with lots of questions so please bear with the time and length. We advise that you take this survey on a computer or tablet rather than a cell phone. The subsequent surveys	everyone has an equal opportunity to succeed.			0		0		
	everyone has an equal opportunity to succeed. Please indicate the exte statements.					0		
are significantly shorter and will not be a heavy time burden for your semester's coursework.	opportunity to succeed. Please indicate the exte					0		
are significantly snotter and will not be a newly time burilen to your senesser a coursework. We will ask you a series of questions in which there are no right or wrong answers. We are only interested in your personal opinions. The answers you provide will lin no way affect your grade. You will only be graded for completion of the survey. Please answer the questions honestly and to the best of your adility so that we can help make your and future students'	opportunity to succeed. Please indicate the exte	nt to which you	u agree or dis	agree with eac	ch of the follow	ing Strongly		

	Strongly	Agree	Neutral	Disagree	Strongly		Very Likley	Likely	Not Sure	Unlikely	Very Unlikely
For some people to succeed, others must fail.	Agree	O	O	O	Disagree	Admitting that your tastes are different from those of your friends.	0	0	0	0	0
Any person who is willing to work hard has a good chance at succeeding.	0	0	0	0	0	Prosociality					
This country would be better off if we worried less about how equal	0	0	0	0	0	Please indicate the exter statements.	nt to which you	agree or dis	agree with eac	h of the follov	ving
people are.							Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Risk Aversion						I try to help others.	0	O	0	Ö	Ö
Rate your willingness to take risk:	s in general with 1	heina completely	unwilling and 10 he	ina completely will	na	I find it difficult to lend money or other belongings.	0	0	0	0	0
,			ely Unwillin@omp			I share the things that I have with my friends.	0	0	0	0	0
1 Willingness to take risks in general.	2 3	4 5	6 7	8 9	10	I am pleased to help my friends/colleagues in their activities.	0	0	0	0	0
For each of the following activity or behavior.	statements,	olease indicat	e your likeliho	od of engagin	g in each	Please indicate the exter statements.	nt to which you	agree or dis	agree with eac	h of the follov	ving
,	Very Likley	Likely	Not Sure	Unlikely	Very Unlikely		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Disagreeing with your father on a major issue.	0	0	0	0	0	I intensely feel what others feel.	0	0	0	0	0
Defending an unpopular issue that you believe in	0	0	0	0	0	I help immediately those who are in need.	0	0	0	0	0
at a social occasion. Taking a job that you enjoy over one that is	0	0	0	0	0	I easily put myself in the shoes of those who are in discomfort.	0	0	0	0	0
prestigious but less enjoyable. Arguing with a friend about an issue on which						I do what I can to help others avoid getting into trouble.	0	0	0	0	0
he or she has a very different opinion.	0	0	0	0	0	Efficacy					
Please indicate the extenstatements.	nt to which yo	u agree or dis	agree with eac	ch of the follow	ving	My opinions were influential in shaping the group discussion and final decision.	0	0	0	0	0
I am capable of	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Members of my group treated each other with respect and courtesy.	0	0	0	0	0
participating effectively in group discussions about important issues.	0	0	0	0	0	I felt like my voice was heard during the group discussion.	0	0	0	0	0
In general, I do better on most things than most people.	0	0	0	0	0	I would describe myself as a leader in the group.	0	0	0	0	0
Group work makes everything harder than it needs to be.	0	0	0	0	0	Group work made everything slower and harder to accomplish.	0	0	0	0	0
I am frequently frustrated by my inability to express my	0	0	0	0	0	Group discussions helped me better understand the issues.	0	0	0	0	0
opinions to others. I am confident in my abilities, even when				0	0	Demographics					
confronting tasks I haven't done before. I feel like I accomplish	0	0	0	O	0	We're halfway there! Han	g in there!				
more when I work with other people.	0	0	0	0	0	The following are a serie analyze responses to this					
Group Deliberation						only report results for gro				councily comm	acitiai. ***c
We want to ask you a little	le bit about pr	evious group	work that you'	ve done. Thin	k back to the	What do you expect your	parents' 2016	income to b	e?		
most recent time you wo lab assignment	rked in a grou	p to complete	e a task. What ?	was the group	(e.g. biology	Under \$50,000 \$50,000-\$74,999					
						\$75,000-\$99,999 \$100,000-\$149,999					
Now thinking back to that please answer the extent						\$150,000-\$199,999 \$200,000-\$250,000					
picase answer the extern	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Over \$250,000					

In what year were you born?

What is your mort recent overall GPA? What is your most recent overall GPA? What is your most recent overall GPA? White consideration of the following beet describes your recial or ethnic beekground? (Select the answer that best applies to you. Select multiple answers if necessary.) White Councidant White Counci	offended. Many women are actually seeking special favors, such as hiring policies that favor them over men, under the guise of asking for 'equality'. Men should be willing to sacrifice their own well-being in order to provide financially for the women in their lives. Many women have a quality of purity that few men possess. No matter how accomplished he is, a man is not truly complete as a person unless he has the love of a woman. Women exaggerate problems they have at	0	0	0	0	0	Please indicate the exterstatements. It is very important to me to hold strong opinions. I often prefer to remain neutral about complex issues.	Strongly Agree	Agree	Neutral O	Disagree	Strongly Disagre
Market is your married status? Single Married Divorcest Wildword What is your most recent overall CPA? White for the colorion best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary) White of the colorion best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary) White of the colorion plant describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary) White of the colorion plant describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary) White of the colorion plant describes your racial or ethnic background? (Select the answer that be select that the plant of the colorion plant is the select of the select that the selec	offended. Many women are actually seeking special favors, such as hiring policies that favor them over men, under the guise of asking for 'equality'. Men should be willing to sacrifice their own well-being in order to provide financially for the women in their lives. Many women have a quality of purity that few men possess. No matter how accomplished he is, a man is not truly complete as a person unless he has the love of a woman. Women exaggerate problems they have at	0	0	0	0	0	Please indicate the exterstatements. It is very important to me to hold strong opinions. I often prefer to remain neutral about complex	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagre
Market formation status? What is your montal status? What is your most recent overall GPA? What is your most recent your place you have been deather the closer to which you agree or disagree with and statements to gain on the properties the closer of the following answers to any of these questions, but please be honest. Bleavier as exist of statements again that you may or may not agree with each of the following answers to any of these questions, but please be honest. Bleavier as resit of statements again that you may or may not agree with each of the following answers to any of these questions, but please be honest. Bleavier as resit of statements again that you may or may not agree with each of the following answers to any of these question	offended. Many women are actually seeking special favors, such as hiring policies that favor them over men, under the guise of asking for 'equality'. Men should be willing to sacrifice their own well-being in order to provide financially for the women in their lives. Many women have a quality of purity that few men possess. No matter how accomplished he is, a man is not truly complete as a person unless he has the love of a woman.	0	0	0	0	0	Please indicate the exterstatements. It is very important to me to hold strong opinions.	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagre
More tay our moral status? Single Moried What is your most recent overall GPA? Which of the following best describes your racial or ethnic background? (Select the answer that best applies byou. Select multiple answers in recessary) Which of the following best describes your racial or ethnic background? (Select the answer that best applies byou. Select multiple answers in recessary) Which of the following best describes your racial or ethnic background? (Select the answer that best applies byou. Select multiple answers in recessary) White face and Benevolent Sexism Hostile and Benevolent Sexism The following questions will be a series of statements again that you may or may not agree or disagree with each of the following ausstions will be a series of statements again that you may or may not agree with. Please indicate the extent to which you agree or disagree with each of the following answers to any of these questions, but please be honest. Sironly Women are to ceally Women are to ceally Grid Agree Agree Neutral Disagree Disagree Disagree Disagree Disagree Disagree Disagree Disagree Disagree Disagree Disagree With each of the following content is possible. The series of statements again that you may or may not agree or disagree with each of the following answers to any of these questions, but please be honest. Sironly Women are to ceally Grid Agree Agree Neutral Disagree Disagree Disagree Disagree Disagree Disagree Disagree Disagree Disagree Disagree Disagree With each of the following content is possible. The series of statements again that you may or may not agree or disagree with each of the following content pages of statements again that you agree or disagree with each of the following content pages of the series of statements. Non-matter two seconds of the following content pages of the series of statements. Non-matter two seconds of the following contents again that you agree or disagree with each of the following contents pages of the series of statements. Non-matter two seco	offended. Many women are actually seeking special favors, such as hiring policies that favor them over men, under the guise of asking for 'equality'. Men should be willing to sacrifice their own well-being in order to provide financially for the women in their lives. Many women have a quality of purity that few men possess. No matter how accomplished he is, a	0	0	0	0	0	Dislike it a lot Need to evaluate Please indicate the extenstatements.	Strongly				Strongly
What is your martal status? Single What is your most recent overall GPA? White Source of the following best describes your social or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary) White of the following best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary) White Sourcessan Bucks/Affarian American Asian Historia Latino Proofice standard Other Hostile and Benevolent Sextism The following questions will be a series of statements again that you may or may not agree with. Please indicate the extent to which you agree or disagree with each of the following answers to any of these questions, but please be honest. We were are too easily Warene are too easily Warene are too easily Warene are too easily General Control of the statement of the statement of the statement of the statement of the degree to which you agree or disagree with each statement. Like is a tot Many women are securally seeking a possificors, that from the now envery the new or envery the new or envery the new or envery the new envery the new or envery the	offended. Many women are actually seeking special favors, such as hiring policies that favor them over men, under the guise of asking for 'equality'. Men should be willing to scorffice their own well-being in order to provide in actually for the women in their lives. Many women have a quality of purity that few	0	0	0	0	0	Dislike it a lot Need to evaluate Please indicate the exter	nt to which you	u agree or dis	agree with eac	h of the follow	ing
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What is your martal status? Single Married Divorced Wildowed What is your most recent overall GPA? White following best describes your recial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White of the following best describes your recial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White following has describes your recial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White following has described by your following has a select of a club, student body officer, and the selection of the selection							Neither like nor dislike it					
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Male Female What is your marital status? Single Married Divorced Widowed What is your most recent overall GPA? White of the following best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White/Caucasian Black/Afrian American Asian Hispanic/Lutino Pacific islander Other Hostile and Benevolent Sexism The following questions will be a series of statements again that you may or may not agree of disagree with each of the following answers to any of these questions, but please be honest. Below is a series of statements concerning men and women and their relationships in contemporary society. Please indicate the degree to which you agree or disagree with each		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree				that require a	lot of thinking,	do you dis
Male Female What is your marital status? Single Married Divorced Widowed What is your most recent overall GPA? Which of the following best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White/Caucasian Black/African American Asian Hispanic/Latino Pacific Islander Other Did you hold a leadership position in high school (e.g., president of a club, student body officer, etc.)? Yes The following questions will be a series of statements again that you may or may not agree with. Please indicate the extent to which you agree or disagree with each of the following statements by clicking on the appropriate button. Remember there are no right or wrong answers to any of these questions, but please be honest.							contemporary society. F					
Male Female What is your marital status? Single Married Divorced Widowed What is your most recent overall GPA? What is your most recent overall GPA? White is gour most recent overall GPA? White of the following best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White Caucasian Bilack/African American Asian Hispanic/Latino Pacific Islander Other Hostile and Benevolent Sexism The following questions will be a series of statements again that you may or may not agree with. Please indicate the extent to which you agree or disagree with each of the following answers by glicking on the appropriate button. Remember there are no right or wrong answers to any of these questions, but needs he honest in any of these questions, but needs he honest or any of these questions but needs he honest.	No No											
Male Female What is your marital status? Single Married Divorced Widowed What is your most recent overall GPA? White is your most recent overall GPA? White is your most recent overall GPA? White of the following best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White/Caucasian Bliack/African American Asian Hispanic/Latino Pacific Islander Other Hostile and Benevolent Sexism The following questions will be a series of statements again that you may or may not agree with each of the following questions will be a series of statements again that you may or may not agree with. Please indicate the extent to which you agree or disagree with each of the following with. Please indicate the extent to which you agree or disagree with each of the following with. Please indicate the extent to which you agree or disagree with each of the following with. Please indicate the extent to which you agree or disagree with each of the following with. Please indicate the extent to which you agree or disagree with each of the following	etc.)?										e are no right	or wrong
Male Female What is your marital status? Single Married Divorced Widowed What is your most recent overall GPA? White your most recent overall GPA? Which of the following best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White/Caucasian Black/African American Asian Hispanic/Latino Pacific Islander Hostile and Benevolent Sexism	Did you hold a leadership	p position in higl	h school (e.g	, president of	a club, studen	t body officer,	with. Please indicate the	extent to which	ch you agree	or disagree wit	h each of the f	ollowing
Maile Female What is your marital status? Single Married Divorced Widowed What is your most recent overall GPA? Which of the following best describes your racial or ethnic background? (Select the answer that best applies to you. Select multiple answers if necessary.) White/Caucasian Black/African American	Asian Hispanic/Latino Pacific Islander Other						Hostile and Benevolent	Sexism				
Male Female What is your marital status? Single Married Divorced Widowed What is your most recent overall GPA? Which of the following best describes your racial or ethnic background? (Select the answer	White/Caucasian Black/African American											
Male Female What is your marital status? Single Married Divorced Widowed What is your most recent overall GPA?					und? (Select tl	ne answer						
Male Female What is your marital status? Single Married Divorced Widowed		t overall GPA?										
Male Female What is your marital status? Single Married Divorced												
Male Female What is your marital status? Single	Divorced											
Male Female												
Male	Single	tus?										
7												
	Male Female What is your marital stat											

some things; and still other people have very few opinions. What about you? Would you say you have opinions about almost everything, about many things, about some things, or about very few things? Please indicate which statement best describes you.

I have opinions about almost everything I have opinions about many things I have opinions about some things I have opinions about very few things

Some people like to have responsibility for handling situations that require a lot of thinking, and other people don't like to have responsibility for situations like that. What about you? Do

About half the time Once in a while

Conflict Avoidance

Please indicate the extent to which you agree or disagree with each of the following statements.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Sunshine Democracy an	d Stealth Den	nocracy			
When people argue about issues, I often feel uncomfortable.	0	0	0	0	0	Please indicate the exten	t to which you	agree or disa	agree with eac	h of the follow	ing
If I'm sure I'm right about an issue, I don't waste time listening to other people's	0	0	0	0	0		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
arguments. I enjoy challenge the opinions of others.	0	0	0	0	0	Openness to other people's views, and a willingness to compromise, are	0	0	0	0	0
I usually find it easy to see issues from other people's points of view.	0	0	0	0	0	important for politics in a country as diverse as ours.					
I have no problem revealing my beliefs, even to someone who would disagree with me.	0	0	0	0	0	In a democracy like ours, there are some important differences between how government should be run and how a business	0	0	0	0	Ο
Please indicate the extent statements.	to which you	agree or disa	igree with eac	h of the follow	ing	should be managed. Most people are too self-interested to agree	0		0	0	0
	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	on solutions that serve the common good. It is important for	0	0	O	O	0
I would rather not justify my beliefs to someone who disagrees with me. I do not take it	0	0	0	0	0	elected officials to discuss and debate things thoroughly before making major policy	0	0	0	0	0
personally when someone disagrees with my views. When I'm in a group, I	0	0	0	0	Ο	changes. Elected officials would help the country more if they would stop talking	0	0	0	0	0
often go along with what the majority decides is best, even if it is not what I want personally.	0	0	0	0	0	and just take action on important problems.					
I feel upset after being involved in an argument.	0	0	0	0	0	Please indicate the exten statements.	t to which you	agree or disa	agree with eac	h of the follow	ing
When I'm in a group, I stand my ground even if everyone else disagrees with me.	0	0	0	0	0		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Our government would run better if decisions were left up to	0	0	0	0	0	If I were upset with a	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
successful business people. Sometimes politics and the government seem						friend, I would discuss it with someone else rather than the friend who upset me.	0	0	0	0	0
so complicated that a person like me can't really understand what is going on.	0	0	0	0	0	When I have a conflict with someone, I try to resolve it by being extra nice to him or her.	0	0	0	0	0
I feel that I have a pretty good understanding of the important political issues facing us today.	0	0	0	0	0	I always prefer to solve disputes through face- to-face discussion.	0	0	0	0	0
What people call "compromise" in politics is just selling out one's principles.	0	0	0	0	0	Please indicate the exten	t to which you	agree or disa	agree with eac	h of the follow	ing
Our government would run better if decisions were left up to non-	0	0	0	0	0		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
elected independent experts.						Everything should be out in the open in an argument, including emotions.	0	0	0	0	0
Confrontation and Emotion						It shows strength to express emotions openly.	0	0	0	0	0
Please indicate the extent statements.	to which you	agree or disa	igree with eac	h of the follow	ing	It makes me uncomfortable watching other people express their emotions in front	0	0	0	0	0
After a dispute with a	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	of me.					
neighbor, I would feel uncomfortable seeing him or her again, even if the conflict had been	0	0	0	0	0	Career Aspirations					
resolved. I dislike when others have eye contact with me during an argument.	0	0	0	0	0	In the next 15 years, how director of an accounting Very Likely					
I feel more comfortable having an argument in person than over the phone.	0	0	0	0	0	Likely Neither Likely nor Unlikely Unlikely					

Very Unlikely On most political matters do you consider yourself: Strongly conservative Please tell us a little more about what you expect your career accomplishments will be 15 Moderately conservative Neither, middle of the road Moderately liberal Strongly liberal Don't know Political Ideology Submit We're almost finished! Just a couple more questions about you! Thanks for participating! Don't forget to click 'Submit' so that your responses will be recorded and you can receive your grade for completion of this survey. You will receive the next (much Generally speaking, do you consider yourself to be a(n): shorter) survey in several weeks. Democrat Independent Something else Powered by Qualtrics Would you call yourself a strong Republican or a not very strong Republican? Strong Not very strong Would you call yourself a strong Democrat or a not very strong Democrat? Do you think of yourself as closer to the Republican or Democratic party? Republican Democratic

Note: Survey was distributed online prior to group assignment.

Figure F2: Monthly Survey

						Think about your group w	ork within the pasi	t week and an	swer the questi	ons accordingly	
							Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Introduction						I would describe myself as a leader in the group.	0	0	0	0	0
σαμοτιστί						A few people tend to dominate the discussions.	0	0	0	0	0
						Members of my group treat each other with respect and	0		0	0	0
						courtesy. Members of my group are too					
						quick to agree with each other.	0	0	•	0	•
						Leadership Attributes: In	fluential				
Welcome to the second The survey should take survey on a computer o	approximately 7 to	10 minutes to	gram evaluation complete. We ad	n this semeste dvise that you	r, Fall 2016. take this	On the following question Please select the membe dropdown list. This can in	r of your current clude yourself.	group	who best fits th	ne description fr	om the
We will ask you a series interested in your perso You will only be grade the best of your ability s better in the program.	nal opinions. The a	answers you p of the survey. I	rovide will in ne Please answer t	o way affect the questions	your grade. honestly and to	Please be honest in your grade. All answers will be	answers. This is for kept strictly confid	or information dential.	purposes only.	This will not affe	ect anyone's
Thank you!						Who has been the most	influential member	of your group	during group d	iscussion and c	ollaboration?
Group Deliberation						V					
Think about your group	work within the pa	st week and an	swer the questio	ns according	у.	Who has been the least j	nfluential member	of your group	durina aroup di	scussion and c	ollaboration?
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree			, , ,			
Group discussions help me better understand the issues.	0	0	0	0	0	•					
I feel like my voice is heard during the group discussion.	0	0	0	0	•						
Group work makes everything slower and harder to accomplish.	0	•	0	0	0	Leadership Attribute: Su	pportive				
My opinions are influential in shaping the group discussion and final decision.	•	•	0	•	0	Who has been the most	supportive membe	er of your group	n during group (discussion and	collaboration?
						Once Enterties					
•						Group Evaluation					
Who has been the least	t supportive memb	er of your group	during group d	iscussion and	collaboration?	On average, do you spea discussing group assignn	k more, less, or at nents?	oout the same	amount as othe	er group membe	ers when
	7					O More					
						The same Less					
Leadership Attribute: C	ompetent					- 2003					
						On average, do you come	e up with more, fev	wer, or about t	ne same numbe	er of ideas as ot	her group
Which member grasps t	the concepts the fa	stest?				members when brainstore	ming group project	ts?			
	•										
						The same					
						Fewer					
Which member grasps t	the concepts the sl	lowest?				How potested as die - 4-5	ad are vermelt	ur group int-	actions?		
•						How satisfied or dissatisfi	eu are you with yo	our group inter	actions?		
						○ Very satisfied					
Leadership Attribute: H	lelpful					 Somewhat satisfied Neither satisfied nor dissa 	tisfied				
						Somewhat dissatisfied					
						 Very dissatisfied 					
Which member is the m difference of opinion?	nost <u>helpful</u> in solvi	ng problems wh	en your group f	aces a challer	nge or a						
•	•					Which of the following be aspects of a project, etc.?	st captures how yo	our group typic	ally makes a de	ecision about ar	assignment,
						 One or two group member prefer something different 		the group, but in th	e end, most others	aren't sure or would	
Which member is the le	east helpful in solvir	ng problems wh	en your group fa	aces a challer	nge or a	Three or four group memb	ers make the decision, I	but in the end, ther	e are one or two wh	o aren't sure or	
difference of opinion?						would have preferred som All members of the group		her and in the cod	no members of the	group aren't euro	
						or would prefer something		non, and in the end	, no members of the	Aroch aren range	

How often do members of your group have disagreements or differences of opinion?	Some combination of both
Very often	
○ Sometimes	
Rarely	How often do you work on assignments and/or study with Accounting students who do not belong to
	your group?
O Never	
	Very often
	○ Sometimes
Group Evaluation - Beginning/End of Semester	○ Rarely
	○ Never
On average, how often do you meet as a group in a week?	
Sit at orago, non onon as you most as a group in a most.	
○ 4+ days	Discouring the attendation of views
② 2-3 days	Please describe the strengths of your group.
O-1 days	
	h.
Do you feel this is a sufficient amount of time or would you rather meet more or less?	
Sufficient amount of time	Please describe the weaknesses of your group.
Meet more	, , ,
○ Meetless	
On average, how often do you keep in contact digitally (e.g. via text, Google hangouts/docs, Skype,	
etc.) with your group in a week?	
○ 4+days	Please describe how you spent your time together with your group this past week by checking all boxes that apply below.
① 2-3 days	boxes triat apply below.
○ 0-1 days	Worked on group projects/assignments
9 V 188)V	
	Studied for quizzes/exams
	Worked on other homework assignments
	Reviewed concepts
When your group gets together, do all members typically attend, or do smaller subsets of the group typically meet together?	Met virtually (e.g., texting, Google Hangouts) to work on assignments
typically meet together:	Went out to lunch or dinner
Everyone typically attends	
Smaller subsets of the group typically meet together	Met in a social setting (e.g., went to a movie or a party)
	Did not meet with my group
Unitalities advanta of the group typically filest organic	and the control was my group
Ontainer advases of time group ypromy most agents	and the contract with the contract of the cont
 Општо высовы и возграф уровану того перепи 	and the most that my group
— општо высовы и въз угор ургану того карага	- Date reconstruction in group
Other (please specify):	
	Thanks for participating! Don't forget to click "Submit" so that your responses will be recorded and you
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Other (please specify): Open-Ended Group Evaluation Question	Thanks for participating! Don't forget to click "Submit" so that your responses will be recorded and you
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Note: Surveys were distributed online in September, October, November, December, January, February, March and April. Surveys in October, November, February, and March did not include the sections "Group Evaluation - Beginning/End of Semester". Surveys in September and January included the "Members Prior Acquaintance" section.

Figure F3: Exit Survey

If you allow your data to be used in scholary research part of the study, your name will never be

published. Only aggregate, unidentifiable data will be published.

Consent Form	Risks/Discomforts. There are minimal risks to you in this research study beyond what you would encounter in your everyday participation in the program. However, it is possible you could encounter some potential emotional discomfort. If answering any specific question causes you emotional discomfort, you may skip it. Benefits.
Introduction	There will be no direct benefits to you. It is hoped, however, that through your participation researchers may
The sis working with several faculty members from on a	learn about group dynamics and decision-making and that this study will inform future I
research project that will be used for two purposes: 1) an internal program evaluation to evaluate different	assignment and become an important contribution to the scholarly literature on this topic.
aspects of the ${\mathbb J}$ ${\mathfrak g}$ experience and 2) a scholarly research study to understand the process of	
decision-making across individuals and in groups. This scholarly research study is being conducted by	Confidentiality_
The program requires	The research data will be kept in a secure location and on password protected computer and only the
participation in this exit survey for the internal evaluation as part of your class credit. However, allowing these	researchers will have access to the data. At the conclusion of the study, all identifying information will be
data to be used as part of the research study is completely voluntary and will not affect your grade or standing	removed and the data will be kept in the researcher's locked office.
in the program in any way.	
	Compensation.
Upon completion of this exit survey, you will be compensated \$7 via Venmo/Paypal or in person for	You will be paid \$7 through Venmo/Paypal or in person for completing the exit survey.
your time.	
Signing this consent form signifies your willingness to allow your data to be used in the scholarly research	Participation
study.	While participation in these tasks is required as part of the internal program evaluation, you do not have to
44	grant access to the data collected during these activities for external scholarly research purposes. You have
Procedures As and of the public state of the	the right to refuse participation at any time in the external scholarly research study; if you do not consent, you
As part of the exit survey, the following will occur.	data will not be used in scholarly data analysis nor will it be published in any scholarly article. Refusal to
 you will receive a link to carry out an online survey through Qualtrics. This survey should take 	participate will not jeopardize your class status, program placement, grade, or standing with the university.
approximately 10 minutes to complete. Questions will address your perspectives about the program	
and your group dynamics, as well as your professional experiences, such as internships and	If you choose to make your data available for the scholarly study, your responses will always be kept
employment, while being enrolled in the program.	completely confidential and your name will never be attached to your responses or the study results in any
In addition to the survey, we will also receive the following information from the program:	way.
Your final grades in accounting classes;	
20 Ann Wilson - Commission of the Commission of	Questions about the Research
 Your internship information; Your final graduate school and/or job outcome, including job title and salary. 	If you have questions regarding this study, you may contact
Tour man graduate scriots and or job outcome, including job title and saidly.	for further information.
Questions about Your Rights as Research Participants If you have questions regarding your rights as a research participant contact	How many internships did you apply for?
	Hay many interviews did you have?
	How many interviews did you have?
Statement of Consent:	
I have read and understood the above consent and desire of my own free will to participate in this	
study.	How many internship offers did you receive?
I wish not to participate in this study and ask that any data collected on me for the internal program evaluation be excluded from any academic publishing.	
• • • • • • • • • • • • • • • • • • •	
Welcome Page	How many internships did you complete?
Welcome to the exit survey of the The survey should take	
approximately 10 - 12 minutes to complete. We advise that you take this survey on a	
computer or tablet rather than a cell phone. We will ask you a series of questions in	Now, mentally order your internships chronologically (with the first internship being the
which there are no right or wrong answers. We are only interested in your personal	least recent and the last internship being the most recent). Please respond to the
opinions. The answers you provide will in no way affect your grade. You will be	following questions regarding each of the internships.
compensated \$7 for your time upon the completion of this survey.	
	Internship3
	Internship3
compensated \$7 for your time upon the completion of this survey.	
compensated \$7 for your time upon the completion of this survey. Please answer the questions honestly and to the best of your ability so that we can help	Internship3 Mark all that apply to your Internship \$[im://Field/1]:
compensated \$7 for your time upon the completion of this survey. Please answer the questions honestly and to the best of your ability so that we can help make your experience and future students' experience better in the program. Thank you!	Mark all that apply to your Internship \${\left[m://Field/1]}:
compensated \$7 for your time upon the completion of this survey. Please answer the questions honestly and to the best of your ability so that we can help	Mark all that apply to your Internship \${\lim://Field/1}:
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compensated \$7 for your time upon the completion of this survey. Please answer the questions honestly and to the best of your ability so that we can help make your experience and future students' experience better in the program. Thank you!	Mark all that apply to your Internship \${\text{lm://Field/1}}: Location
compensated \$7 for your time upon the completion of this survey. Please answer the questions honestly and to the best of your ability so that we can help make your experience and future students' experience better in the program. Thank you! Internship1	Mark all that apply to your Internship \${\m:!/Field/1}: Location On-campus Off-campus Type: Paid Non-paid
compensated \$7 for your time upon the completion of this survey. Please answer the questions honestly and to the best of your ability so that we can help make your experience and future students' experience better in the program. Thank youl Internship1 During your time as a student in the Program, did you apply for any	Mark all that apply to your Internship \${\text{lm://Field/1}}: Location
compensated \$7 for your time upon the completion of this survey. Please answer the questions honestly and to the best of your ability so that we can help make your experience and future students' experience better in the program. Thank youl Internship1 During your time as a student in the Program, did you apply for any on-campus or off-campus internships?	Mark all that apply to your Internship \${\text{lm://Field/1}}: Location

Internship2

Not a productive use of my time

Made great professional contacts

Led to a job	
I felt uncomfortable in the work place	What are your <u>immediate</u> plans after graduation from the Accounting Jr. Core program?
I didn't feel prepared for most of the required responsibilities	Select all that apply.
I felt prepared for most of the required responsibilities	Work full-time
Other:	Work part-time
	Attend graduate school (beginning this summer or fall) Take some time to prepare for graduate school
Internation 4	Be a homemaker/stay-at-home parent
Internship4	Other:
Please select the reason(s) why you did not apply for any internships during your time in	
the Jr. Core Accounting program. Select all that apply and use the space provided to	Jobs1
include others not listed.	
Did not feel the need to have an internship since I was confident I could secure good employment without an internship	Va. :- di-sat-dab-at-a-a-i-a-a-di-at-a-la-a-aft-a-a-a-at-a-a-a-a-a-a-a-a-a-a-a-a
Did not feel the need to have an internship since I planned to attend graduate school post-	You indicated that your immediate plans after graduation are to work. We would now like to ask you some questions about your job search process.
graduation	to ask you some questions about your job search process.
Did not feel the need to have an internship since I did not plan to work or attend graduate school post-graduation	
Did not have time for an internship due to personal/family obligations	How many jobs have you applied for in the last year?
Did not feel that there were good internship opportunities available	
Did not feel qualified/competitive for the internships that I was interested in	
Felt like I needed a break during the spring/summer after an intense school year	How many first interviews did you have?
Other reason(s):	Tiow many instrinctiviews did you have:
In hindsight, do you wish you had applied for/completed an internship while being	How many of these first interviews led to follow-up interviews?
enrolled in the program?	
Yes	
No	
	How many formal job offers did you receive?
Plan	
Plans	
	Jobs2
	J0052
	Jobsz
We would now like to ask you some questions about each job offer. For the following	My requests hurt me and negatively affected the terms of the original contract
We would now like to ask you some questions about each job offer. For the following questions, please order each job offer chronologically and answer the questions with	
	My requests hurt me and negatively affected the terms of the original contract Still negotiating
questions, please order each job offer chronologically and answer the questions with	My requests hurt me and negatively affected the terms of the original contract Still negotiating
questions, please order each job offer chronologically and answer the questions with regard to each job offer separately.	My requests hurt me and negatively affected the terms of the original contract Still negotiating Other:
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questions, please order each job offer chronologically and answer the questions with regard to each job offer separately. Jobs3 Job offer \${\text{lm://Field/1}}: Did you try to negotiate any terms of the job offer/contact that you received?	My requests hurt me and negatively affected the terms of the original contract Still negotiating Other: Did you accept the final job offer? Yes No Still considering/negotiating On a scale of 0 to 100, how happy are you about this job?
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We would now like to ask you some questions about your application process.

My requests were met partially; the employer and I met roughly in the middle

My requests were not met and did not change the terms of the original contract

How many graduate schools did you apply for?	Grad School3
, g	
	Why did you not commit to any graduate program? (Select all that apply.)
On a scale of 0 to 100, how confident were you in your shillty to get accented to	I am waiting to hear from other graduate school(s) that I have applied for
On a scale of 0 to 100, how confident were you in your ability to get accepted to graduate school?	I plan to reapply to graduate school(s) next year I am still negotiating my graduate school offer
(0 = not confident at all, 100 = completely confident)	Tan sur regulating my graduate school oner
0 10 20 30 40 50 60 70 80 90 100	Alt Plan1
How many graduate schools did you get accepted to?	Employment was not one of the options you listed as part of your immediate plans afte graduation. We are curious to know if you did have any initial plans to seek full-time or
	part-time employment?
	Yes
Have the constituted to attend any moderate account.	No
Have you committed to attend any graduate program?	
Yes No	You indicated that you initially planned to seek employment. Please tell us why your
Still deciding	plans changed. (Select all that apply.)
	I changed my mind and decided to attend graduate school
Grad School2	I changed my mind and decided to be a homemaker instead
	I was not offered a suitable position I decided to take some time off before seeking further employment
Please indicate the program and university you will attend:	I decided to take some time on before seeking future employment
rodo marato tro program and ambonly you will altona.	
	Alt Plan2
On a scale of 0 to 100, how happy are you about this post-graduation outcome? (0 = extremely unhappy, 100 = extremely happy)	Graduate school was not one of the options you listed as part of your immediate plans after graduation. We are curious to know if you did have any initial plans to attend
(0 = externely dimappy, 100 = externely happy)	graduate school?
0 10 20 30 40 50 60 70 80 90 100	Yes
	No
You indicated that you initially planned to attend graduate school. Please tell us why your plans changed. (Select all that apply.)	
I changed my mind and decided to seek full/part-time employment instead I changed my mind and decided to be a homemaker instead	
I was not admitted to any graduate school	
I decided to wait to apply at a later time	
Open-ended comment	
Is there anything else you would like to tell us about your experience in the program?	
Payment	
Please indicate how you would like to receive payment for taking this survey and provide the corresponding information:	
Information will only be used for payment purposes and all payment will be carried out privately.	
Venmo (provide your Venmo username)	
Paypal (provide your Paypal email address)	
End Message	
Thank you for participating in this survey and the internal program evaluation throughout your time in	
the Jr. Core! Don't forget to click "Submit" so that your responses will be recorded.	

Note: Survey was distributed online after students at the end of undergraduate program.

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