

FLS 6441 - Methods III: Explanation and Causation

Week 4 - Survey and Lab Experiments

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Survey and Lab Experiments

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 1. Treatments we cannot administer in reality
 2. Random treatment assignment not permitted in reality
 3. Outcome measurements that are hard to take in reality
 4. Reduce variation in context and noise in data
 5. To generalize beyond specific situations to abstract behaviour

Section 1

Lab Experiments

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- ▶ **Treatment:** Not a manipulation of real world political or economic processes, but establishing controlled 'lab' conditions
 - ▶ The advantage: Control over context helps isolate mechanisms
 - ▶ The disadvantage: Can we generalize to the real world?

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 - ▶ **Hawthorne effect:** Lab context influences behaviour, social desirability bias
 - ▶ **Context effects:** The real-world always provides more information, more history
 - ▶ **Process effects:** People care *how* decisions are made
 - ▶ **Selection effects:** Actors in specific roles are rarely representative samples, 'WEIRD' or pro-social lab subjects

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 - ▶ Subjects use cues (heuristics) to draw on ‘similar’ situations from the real world

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- ▶ Lab experiments may be generalizable where norms/morality is less important (???)

Lab-in-the-Field Experiments

- ▶ In a natural setting with the target population

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- ▶ Standardized, artificial treatment and measurement

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- ▶ But how? Theories:
 - ▶ Preferences - in-group fairness
 - ▶ Technology - social networks permit identification and sanctioning
 - ▶ Strategy Selection - choose to cooperate more often

Lab-in-the-Field Experiments

- ▶ Lab-in-the-field
- ▶ **Population:** Ugandans
- ▶ **Sample:** 300 people in a diverse area with few public goods
- ▶ **Treatment/Control:** Various Games
- ▶ **Treatment assignment:** Random assignment to co-ethnic/non-co-ethnic

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Lab-in-the-Field Experiments

- ▶ **Conclusion:** Norms and Networks allow co-ethnics to provide more public goods
 - ▶ ...But where are the public goods here?
 - ▶ Are public goods organized by voluntary contributions or coercive central authority?
 - ▶ Is this true of all parts of Kampala? Uganda? All ethnic groups?

Section 2

Survey Experiments

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 - ▶ Different versions of the questionnaire randomly applied
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 - ▶ Not a lab experiment: People not brought to a single location or interacting

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- ▶ Can be targeted to our real population of interest
- ▶ But a limited range of 'weak' treatments possible
- ▶ And outcome measurement normally takes place immediately

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 5. Conjoint Experiments - to measure preferences

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 4. What is at stake in the answer? Are there any actual consequences? Will they have to defend their answer in the community later? 'Cheap talk'

2. Priming

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- ▶ Eg. We remind half of respondents about national Independence Day
- ▶ Then ask what they think about immigration
- ▶ Allowing us to measure the effect of 'nationalism' on migration attitudes

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 - ▶ More problematic is contamination

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- ▶ So the answers to every question depend on the previous questions
- ▶ Usually affects all respondents equally
- ▶ But survey experiments that vary across respondents might change *ALL* subsequent responses

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- ▶ Gonzalez-Ocantos et al (2010) - list experiment on vote-buying

4. List Experiments

Im going to hand you a card that mentions various activities, and I would like for you to tell me if they were carried out by candidates or activists during the last electoral campaign. Please, do not tell me which ones, only HOW MANY:

- ▶ they put up campaign posters or signs in your neighborhood/city;
- ▶ they visited your home;
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- ▶ they threatened you to vote for them.

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- ▶ **Direct Question:** Have you received a gift or favour in exchange for your vote?
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- ▶ **List experiment:**
 - ▶ Just the difference in mean responses between treatment and control lists
 - ▶ $24\% = 2.31 - 2.06$

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- ▶ Design Effects- Presence of treatment item doesn't affect answers on other items
- ▶ Bias towards a 'reasonable'/central number?

5. Conjoint Survey Experiments

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- ▶ Also a problem of social desirability bias in which characteristics matter

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 - ▶ Attributes
 - ▶ Values
- ▶ Randomize attribute order to prevent bias
- ▶ Treatment is the **combination** of attributes the respondent sees
- ▶ Millions of possible treatments

Please read the descriptions of the potential immigrants carefully. Then, please indicate which of the two immigrants you would personally prefer to see admitted to the United States.

	Immigrant 1	Immigrant 2
Prior Trips to the U.S.	Entered the U.S. once before on a tourist visa	Entered the U.S. once before on a tourist visa
Reason for Application	Reunite with family members already in U.S.	Reunite with family members already in U.S.
Country of Origin	Mexico	Iraq
Language Skills	During admission interview, this applicant spoke fluent English	During admission interview, this applicant spoke fluent English
Profession	Child care provider	Teacher
Job Experience	One to two years of job training and experience	Three to five years of job training and experience
Employment Plans	Does not have a contract with a U.S. employer but has done job interviews	Will look for work after arriving in the U.S.
Education Level	Equivalent to completing two years of college in the U.S.	Equivalent to completing a college degree in the U.S.
Gender	Female	Male

Immigrant 1 Immigrant 2

If you had to choose between them, which of these two immigrants should be given priority to come to the United States to live?

☐
☐

On a scale from 1 to 7, where 1 indicates that the United States should absolutely not admit the immigrant and 7 indicates that the United States should definitely admit the immigrant, how would you rate Immigrant 1?

Absolutely Not Admit
Definitely Admit

1
2
3
4
5
6
7

☐
☐
☐
☐
☐
☐
☐

Using the same scale, how would you rate Immigrant 2?

Absolutely Not Admit
Definitely Admit

1
2
3
4
5
6
7

☐
☐
☐
☐
☐
☐
☐

Fig. 1 Experimental design: Immigration conjoint. This figure illustrates the experimental design for the conjoint analysis that examines immigrant admission to the United States.

choice outcomes hereafter. Second, in “rating-based conjoint analysis,” respondents give a numerical rating to each profile which represents their degree of preference for the profile. This format is preferred by some analysts who contend that such ratings provide more direct, finely grained information about respondents’ preferences. We call this latter type of outcome a *rating outcome*.

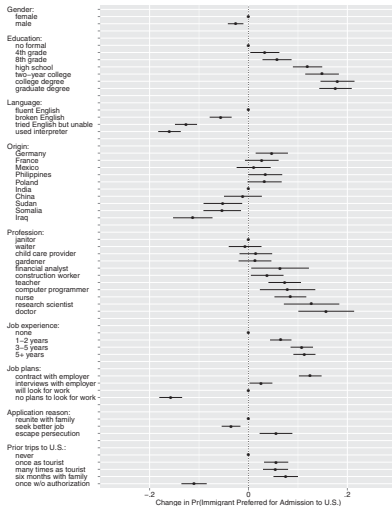


Fig. 3 Effects of immigrant attributes on preference for admission. This plot shows estimates of the effects of the randomly assigned immigrant attributes on the probability of being preferred for admission to the United States. Estimates are based on the regression estimators with clustered standard errors; bars represent 95% confidence intervals. The points without horizontal bars denote the attribute value that is the reference category for each attribute.

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 - ▶ It is an **Average Marginal Component Effect**
 - ▶ Eg. the effect of gender averaging across all possibilities of age, language, etc.

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- ▶ The ordering of attributes and profiles does not matter

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 - ▶ Not like real-world preference-formation process
 - ▶ Stated preferences vs. Revealed preferences

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- ▶ Citizens voted on specific naturalization applicants (Really!)

Figure S11: Effects of Applicant Attributes on Opposition to Naturalization Request (Un-weighted Survey Sample)

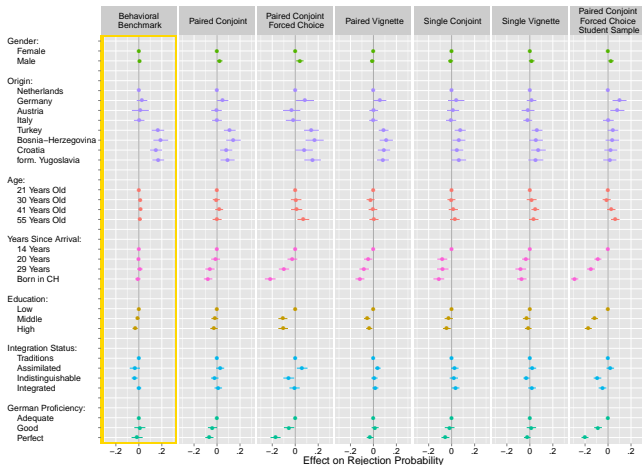


Figure shows point estimates (dots) and corresponding, cluster-robust 95 % confidence intervals (horizontal lines) from ordinary least squares regressions. The dots on the zero line without confidence intervals denote the reference category for each applicant attribute.

5. Conjoint Survey Experiments

- ▶ But note the conjoint method still hugely under-estimated the overall rejection rate
- ▶ 21% versus 37% in reality

Section 3

Generalizability

Generalizability

1. Generalizability of our Sample
2. Generalizability of our Context
3. Generalizability of our Treatment