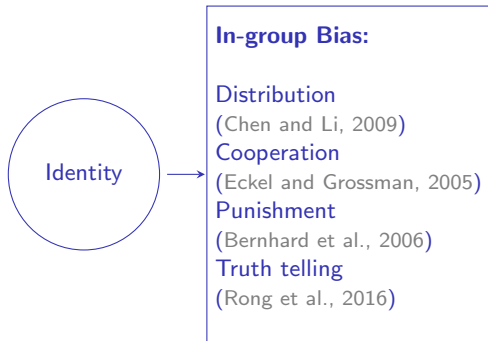


Fortune and Identity

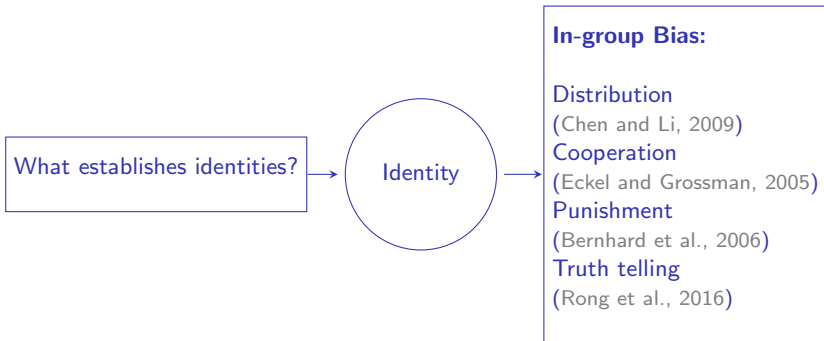
Gary Charness, Xin Jiang

Economics Letters, 2023

Introduction



Introduction



Approaches to introduce identities:

- Natural identities: gender, race, religion
Deep-rooted notion establishes identity
(Benjamin et al., 2010; Chen et al., 2014; Adnan et al., 2021; Bernhard et al., 2006; Hoff and Pandey, 2006)
- Artificial identities:
random assignment
labelling establishes identities
(Rong et al., 2016; Currarini and Mengel, 2016)
group solving task
joint work strengthens identities
(Eckel and Grossman, 2005; McLeish and Oxoby, 2007; Chen and Li, 2009; Charness et al., 2014; Rong et al., 2016)

Introduction

What might be missing in literature?

- Activities that occur naturally might generate group identities
- Shared experience might be a potential candidate. It echoes the natural identity and problem solving task.

Research Question

- Does the *shared experience* establish *in – group bias*?
- fortune and misfortune* *other – other allocation*

Research Question

- Does the *shared experience* establish *in – group bias*?
fortune and misfortune *other – other allocation*
- Why shared fortune and misfortune: in all corners of life.
born rich or born poor
whether gets a job one is qualified for
Design: same task, random payoffs
- Why other-other allocation: no self-interest confound
Design: distribute \$5 to two other participants

Most Related Work

Cassar and Klein (2019): lottery failures were more likely to favor other lottery failures, and there was no significant in-group favoritism among lottery winners.

- relative performance + final outcomes are in fact randomly decided
- no control

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Difference in our project:

- same task, same performance
- clear control

Experimental Design

Main treatment: elicit distribution decisions with shared experience

Control treatment: elicit distribution decisions with neutral experience

- Stage 1: manipulate experiences
shared fortune and misfortune/ neutral
- Stage 2: elicit distribution decisions

Experimental Design

Main Treatment

Stage 1: manipulate shared fortune and misfortune.

- Same task (counting 0s), random payments: 2/3 got \$3, 1/3 got \$0.

1000100011011011010 0010010010010010010	How many 0s are there in the table? <input type="text"/> <input type="button" value="Submit"/> <input type="button" value="Next"/>
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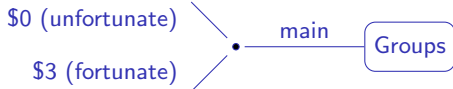
Experimental Design

Main Treatment

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Experimental Design

Main Treatment

Stage 2: elicit distribution decisions in three scenarios:

fortunate vs. fortunate

unfortunate vs. unfortunate

unfortunate vs. fortunate

Randomly pick 1/3 as allocators, and get paid \$X.

1. How would you allocate \$5 if both recipients earned \$3 in Part 1?

Recipient 1 - \$3 (\$) (\$) Recipient 2 - \$3

2. How would you allocate \$5 if both recipients earned \$0 in Part 1?

Recipient 1 - \$0 (\$) (\$) Recipient 2 - \$0

3. How would you allocate \$5 if one recipient earned \$0 in Part 1, and the other received \$3?

Recipient 1 - \$0 (\$) (\$) Recipient 2 - \$3

Submit Next

Experimental Design

Control Treatment

Separate allocators and recipients

- Recipients:
 - Stage 1: inequality generation process as the main treatment
- Allocators:
 - Stage 1: do the same task, and get fixed payment $\$Y$
 - Stage 2: elicit distribution decisions as in the main treatment

Experimental Design

Control Treatment

Separate allocators and recipients

- Recipients:
 - Stage 1: inequality generation process as the main treatment
- Allocators:
 - Stage 1: do the same task, and get fixed payment $\$Y$
 - Stage 2: elicit distribution decisions as in the main treatment

Overall:



- 3 types of allocators, 3 decisions for each type

Hypotheses

Conceptualization

- Symmetric shared experience with recipients: inequality aversion
- Asymmetric shared experience with recipients: inequality aversion + in-group favoritism
- Shared misfortune has a larger effect on people's behaviour than shared fortune (e.g., prospect theory and loss aversion)

Hypotheses

Conceptualization

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Hypotheses

- Hypothesis 1: If recipients are from the same group, allocators would selected equalized payments.
- Hypothesis 2: If recipients are from different groups, fortunate and unfortunate allocators would favor in-group members compared to the neutral allocators, and unfortunate allocators favor in-group members more.

Data collection

- Experimental and Behavioral Economics Laboratory at UCSB, Feb.-Apr. 2022.
- 31 unfortunate
- 62 fortunate
- 25 control allocators, 50 control recipients
- \$9.5 on average, 20 minutes

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Test 1: when recipients are from the same group

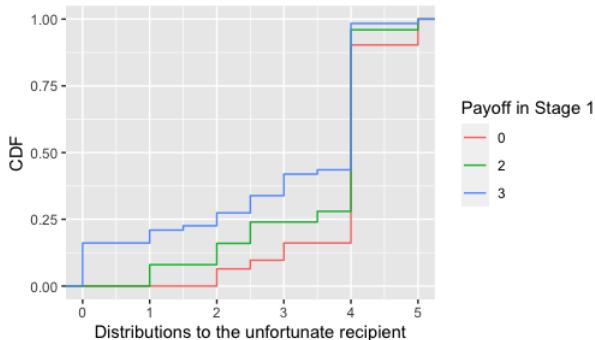
Hypothesis 1: equalized payoffs.

- 74% of allocators chose equalization when there is no group issue.

Results

Test 2: when recipients are from different groups

Hypothesis 2: in-group bias.



Main results:

- Significant difference of CDF between fortunate and unfortunate allocators. (one-tailed ks test $p=0.045$, two-tailed ks test $p=0.089$, two tailed Wilcoxon rank sum test $p=0.006$)

Model

$$Y_i = \alpha + \beta_1 U_i + \beta_2 F_i + \epsilon_i$$

- Y_i : how much allocated to the unfortunate recipient
- $U_i = 1$ if the allocator is unfortunate, 0 otherwise
- $F_i = 1$ if the allocator is fortunate, 0 otherwise
- α : the mean allocated to the unfortunate recipient by the neutral allocator
- β_1 : the difference of decisions between the unfortunate allocator and the neutral allocator
- β_2 : the difference of decisions between the fortunate allocator and the neutral allocator
- ϵ_i : random noise

Results
OLS Regression

<i>Dependent variable:</i> Distribution to the unfortunate recipient (\$)	
unfortunate (β_1)	0.355 (0.342)
fortunate (β_2)	-0.597** (0.301)
Constant (α)	3.500*** (0.254)
Observations	118
R ²	0.098
Adjusted R ²	0.083
Residual Std. Error	1.272 (df = 115)
F Statistic	6.261*** (df = 2; 115)

Note: standard error in the parenthesis, * $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$

Main result:

- Only shared fortune has significant effects on distribution decisions.

Summary of the Results

- Preference for equality has a strong effect.
- Shared fortune generates in-group bias, but shared misfortune does not.

Potential Explanation:

shared experience \nRightarrow group affiliation, some other mechanism matters

- legitimization (Cherry et al., 2002; Oxoby and Spraggon, 2008)