Inequality shapes the propagation of unethical behaviours:

Cheating responses to tax evasion along the income distribution

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Conditional behaviours:

- Cooperation
 Fischbacher et al., 2001; Chaudhuri et al., 2017; Martinangeli, 2021
- Dishonesty
 Gino et al., 2009; Rauhut, 2013;
- Tax evasion
 Frey and Torgler, 2007

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- Do people react differently according to their own income?
 - reaction might depend on who they identify with, i.e. "their group" (rich with rich, poor with poor)

Method

- Survey experiment (Italy)
- N = 4000
- Experimental conditions: estimated tax evasion rates at the bottom and top of the income distribution (ad hoc expert survey)
- Behavioural outcome measure: cheating after die roll Kocher et al., 2018;
- Norm elicitation Krupka and Weber, 2013

Experimental conditions

2x2 information design:

High ev at high incomes	Low ev at high incomes
High ev at low incomes	High ev at low incomes
High ev at high incomes	Low ev at high incomes
Low ev at low incomes	Low ev at low incomes

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- How to get 4 different estimates for tax evasion at the bottom at the top (without deception)?
- "Expert survey" among 500 top economists in Italian institutions according to RePEc (2019)
 - Please provide your best estimate of the share of total/capital/labour income that remains undeclared by the following income categories: (list of all quintiles + top decile + top percentile)
 - Construct 4 groups of "experts" according to their estimates:
 HH, HL, LH, LL

The estimates

Above/below 50% undeclared income for bottom quintile and top decile:

The estimates

Above/below 50% undeclared income for bottom quintile and top decile:

Above 50% at high incomes Above 50% at low incomes	Below 50% at high incomes Above 50% at low incomes
Above 50% at high incomes Below 50% at low incomes	Below 50% at high incomes Below 50% at low incomes

Outcome measures

How to measure conditional behaviours in the tax evasion context?

- Cheating
- Norm elicitation

Die rolling video: https://youtu.be/YR_kL2_Nnf4

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- Notice: The reports are verifiable!

Norm elicitation

 Elicit perceived social norms: Modified Krupka-Weber method on WVS responses in Italy (incentivized)

In a previous survey study conducted in Italy, a representative sample of the resident population was asked for their opinion about a number of actions. In particular, for each of the following actions they were asked on a scale from 1 to 10 whether they thought it can always be justified (10), never be justified (1), or something in between.

Your task is to guess which answer was provided most frequently in that survey.

Claiming undeserved gov.t benefits Avoiding a fare on public transport Cheating on taxes if given a chance Taking a bribe in course of duty

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Hypothesis 1 (Conditional behaviour):

Higher estimated tax evasion induces greater incidence of unethical behaviour.

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Cheating will increase when we inform people about greater levels of estimated tax malpractice.

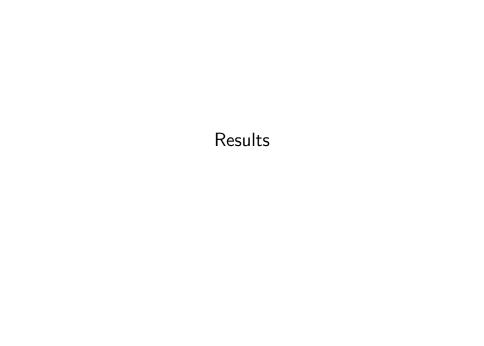
Hypothesis 2 (Asymmetric conditional behaviour):

High tax evasion by the rich induces stronger conditional responses than by the poor.

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High tax evasion by the rich induces stronger conditional responses than by the poor.

Cheating will be higher when estimated tax evasion rates are higher at the top of the income distribution compared to the bottom.



	Probability of misreporting		
VARIABLES	given roll \neq 6		
Baseline: HL			
HH	-0.103**		
	(0.052)		
LH	-0.082		
	(0.057)		
LL	-0.068		
	(0.087)		
Constant	-0.320***		
	(0.121)		
Controls	\checkmark		
Observations	2,843		
Robust standard errors,			

Robust standard errors, clustered at region level, in parentheses *** p<0.01, ** p<0.05, * p<0.1

	Probability of misreporting given roll \neq 6	
VARIABLES	Low income	High income
Baseline: HL		
HH	0.043	-0.264***
	(0.106)	(0.078)
LH	0.076	-0.250***
	(0.106)	(0.083)
LL	0.064	-0.192**
	(0.135)	(0.077)
Constant	-0.379***	-0.726***
	(0.138)	(0.148)
Controls	\checkmark	✓
Observations	1,501	1,339

Robust standard errors, clustered at region level, in parentheses *** p<0.01, ** p<0.05, * p<0.1

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- IV estimation: $pr(Cheating) = f(p\hat{o}st_r, p\hat{o}st_p)$ Only belief updates about tax evasion by high income individuals drive cheating probability among high income respondents

Tax compliance norm

	Perceived norm	
VARIABLES	of tax compliance	
Baseline: HL		
HH	0.071	
	(0.155)	
LH	0.369***	
	(0.093)	
LL	-0.004	
	(0.125)	
	, ,	
Constant	3.756***	
	(0.231)	
	, ,	
Controls	\checkmark	
Observations	3,421	
R-squared	0.020	
Robust standard errors,		
clustered at region level, in parentheses		
*** p<0.01,	** p<0.05, * p<0.1	

	Perceived norm of tax compliance	
VARIABLES	Low income	High income
Baseline: HL		
HH	0.473**	-0.346
	(0.207)	(0.215)
LH	0.510***	0.249
	(0.152)	(0.147)
LL	0.396*	-0.430**
	(0.192)	(0.195)
Constant	3.622***	3.650***
	(0.178)	(0.490)
Controls	\checkmark	✓
Observations	1,787	1,634
R-squared	0.038	0.026

Robust standard errors, clustered at region level, in parentheses *** p<0.01, ** p<0.05, * p<0.1

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- The tax compliance norm seems to be determined by how much (little) the poor evade compared to the rich.
- IV estimation: Only belief updates about tax evasion by low income individuals drive norm perception among low income respondents.

Conclusion

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 - Driven by high income respondents
- Norm about tax compliance is stronger when tax evasion is presented as less severe among low income than high income individuals
 - Driven by low income respondents
- Income segments seem to matter:
 - High income more sensitive in a behavioural way
 - Low income more sensitive in their perception of the norm

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