



# Gender differences in cheating: Loss vs. gain framing

Lara Ezquerra<sup>a</sup>, Gueorgui I. Kolev<sup>b</sup>, Ismael Rodriguez-Lara<sup>b,\*</sup>

<sup>a</sup> *Universitat de les Illes Balears, Department of Business Economics, Ctra. De Valldemossa km 7.5, Ed. Jovellanos, 07122 Palma de Mallorca, Spain*

<sup>b</sup> *Middlesex University London, Department of Economics, Business School, Hendon Campus, The Burroughs, London NW4 4BT, United Kingdom*

## HIGHLIGHTS

- We use the die-paradigm to study gender differences in cheating.
- Both males and females cheat if reports are associated with financial gains or losses.
- Our data suggest no gender differences in cheating.
- We do not find support for loss aversion for any gender.

## ARTICLE INFO

### Article history:

Received 1 September 2017  
 Received in revised form 2 November 2017  
 Accepted 10 November 2017  
 Available online 22 November 2017

### Keywords:

Cheating  
 Incentives  
 Gender differences  
 Loss aversion  
 Framing  
 Experiment

## ABSTRACT

We use the die-paradigm to study gender differences in cheating behavior. We find that *i*) both males and females do not cheat in the absence of financial incentives, *ii*) both males and females cheat (but not maximally) if reports are associated with financial gains or losses, and *iii*) males and females do not cheat differentially.

© 2017 Published by Elsevier B.V.

## 1. Introduction

There is mounting evidence on the factors that influence unethical behavior (Rosenbaum et al., 2014; Jacobsen et al., 2017). Our interest is to investigate how incentives to cheat vary along an observable dimension—the person's gender. Croson and Gneezy (2009) suggest the existence of gender differences in preferences and highlight that males and females react differently to the context. Our aim is to see how these findings apply to cheating behavior when subjects have to report a piece of private information to the experimenter.

We use the die-paradigm of Fischbacher and Föllmi-Heusi (2013), where subjects roll a die privately and then report the outcome they allegedly obtained. We consider three different treatments. In the Baseline, the subjects' payoffs are unaffected by their reported outcomes. In the Gain treatment, subjects' reported outcomes determine the amount they receive in a sealed envelope

at the end of the session. In the Loss treatment, subjects are announced the maximum earnings at the beginning of the session and their reports determine the amount to be deducted from their initial endowment. By comparing the reported outcomes with the expected (uniform) distribution, we can detect cheating at the aggregate level. We compare males' and females' reported outcomes within and across treatments to test for gender differences in cheating behavior and investigate whether or not males and females cheat differently in the Gain and Loss frame.

Our study is the first to test for gender differences in cheating using the die-paradigm and considering separately the Gain and Loss domains. Childs (2012, 2013), Cappelen et al. (2013) and Grolleau et al. (2016), among others, investigate gender differences in cheating using other tasks. In the die-paradigm, the experimental evidence when reports are associated with gains is mixed; e.g., Clot et al. (2014) find that females cheat more than males, while Conrads et al. (2017) find the opposite, and Muehlheusser et al. (2015) do not observe gender differences (see Abeler et al., 2016 for a recent meta-study on the die-paradigm).

We contribute to the literature by reporting no gender differences in cheating and extending the discussion to the gain and loss

\* Corresponding author.  
 E-mail addresses: [lezquerra@uib.es](mailto:lezquerra@uib.es) (L. Ezquerra), [G.Kolev@mdx.ac.uk](mailto:G.Kolev@mdx.ac.uk) (G.I. Kolev), [I.Rodriguez-Lara@mdx.ac.uk](mailto:I.Rodriguez-Lara@mdx.ac.uk) (I. Rodriguez-Lara).

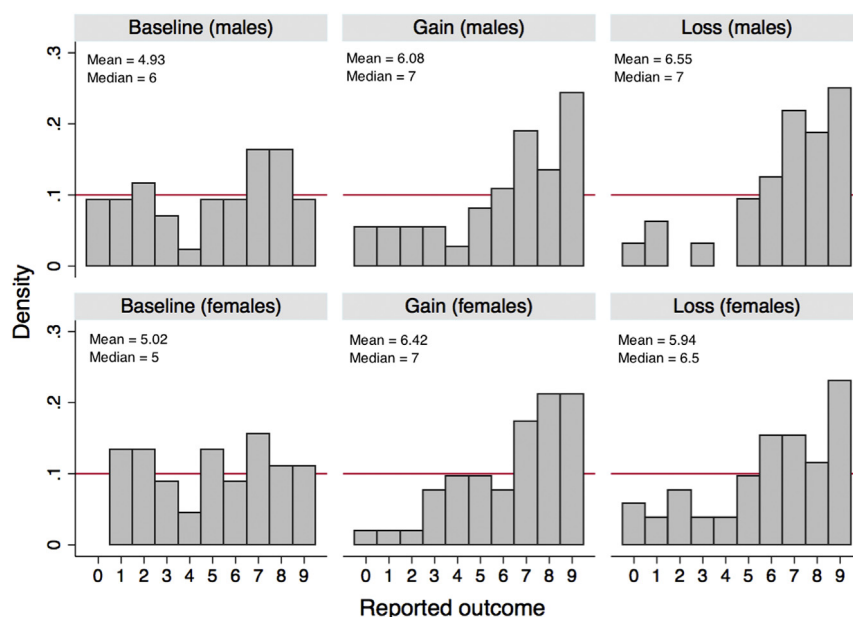


Fig. 1. Distribution of reported outcomes per treatment disaggregated by gender.

Table 1  
Payoffs (in Euros) per treatment depending on the reported number.

Reported outcome	0	1	2	3	4	5	6	7	8	9
Baseline	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Gain	0	1	1.5	2	2.5	3	3.5	4	4.5	5
Loss	-5	-4	-3.5	-3	-2.5	-2	-1.5	-1	-0.5	0

domains. Loss aversion posits that it hurts more to lose what you already have rather than not gain something you never had. We do not detect, however, for fixed gender, any differences in cheating across the gain and loss frames, thus we do not find evidence of loss aversion for males and females.

## 2. Experimental design

Our experiment was added at the end of a session, following the procedures in Fischbacher and Föllmi-Heusi (2013). Subjects were asked to roll a 10-sided die privately in their cubicles and then report the number they obtained (from 0 to 9) on the computer screen. Subjects received their payoffs at the end of the session in a sealed envelope depending on the reported outcome (see Table 1).

In the Baseline (43 males, 45 females), subjects received a fixed amount (2.5€), regardless of the reported outcome. In the Gain treatment (37 males, 52 females), earnings ranged between 0€ (when reporting 0) and 5€ (when reporting 9). In the Loss treatment (32 males, 52 females), subjects were informed that they had been allocated 5€ at the beginning of the session. The reported outcome determined the amount to be deducted (by the experimenter) from their envelope.

## 3. Results

Fig. 1 displays the distribution of the reported outcomes in each of the treatments, disaggregated by gender. The horizontal red line indicates the expected frequency if reports followed the theoretical uniform distribution.

We reach our preferred specification following the marginality principle (Nelder, 1977; Weisberg, 2014, p. 139). We start with a regression model that includes a three-way interaction of the treatment, gender and age, and all lower level two-way interactions, and all main effects. Our data suggest to eliminate the three-way

Table 2  
Standardized die outcome: Linear regression.

Regressor is an indicator for:	<i>b</i>	<i>t</i> -stat	<i>p</i> -value
Female & Baseline	0.182	1.29	(0.199)
Male & Baseline	0.150	0.94	(0.350)
Female & Gain	0.670***	5.90	(0.000)
Male & Gain	0.550***	3.41	(0.001)
Female & Loss	0.502***	3.74	(0.000)
Male & Loss	0.751***	4.98	(0.000)
R <sup>2</sup>	0.055		
N	261		

Notes. Dependent Variable is Standardized Die Outcome,  $(\text{Die Outcome} - \text{Theoretical Expectation of Die Outcome}) / (\text{Theoretical Standard Deviation of Die Outcome}) = (\text{Die Outcome} - 4.5) / 2.872$ . Interpretation of the *b* coefficients is, e.g., in the Male & Loss treatment category the observed average die outcome is 0.751 of one theoretical standard deviation above the theoretical expected die outcome.

( $p = 0.383$ ) and the two-way interactions ( $p = 0.250$ ). We also eliminate the quadratic in age ( $p = 0.493$ ).

Table 2 reports the estimates of our final specification. We standardize the outcome, i.e., we subtract the theoretical expected value of the die roll outcome (4.5), and divide by the theoretical standard deviation of the die outcome (2.872). Our model is saturated by omitting the constant term and including a full set of indicator variables taking the value of one if the observation falls within one of the mutually exclusive and exhaustive categories. The estimated parameters have the interpretation of amount of cheating that takes place in the category flagged by the given indicator expressed in units of standard deviation. The test statistics are computed with Eicker-White robust to arbitrary heteroskedasticity covariance matrix. This is necessary because our dependent variable has limited range (integers from 0 to 9).

We find that males and females do not cheat in the Baseline ( $p > 0.199$ ), but they do it in the Gain and the Loss treatments ( $p$

Download English Version:

<https://daneshyari.com/en/article/7349304>

Download Persian Version:

<https://daneshyari.com/article/7349304>

[Daneshyari.com](https://daneshyari.com)