Do previous good deeds to a third party make people more tolerant of bad deeds against them? An experimental investigation

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\textbf{HIGHLIGHTS}

- Modified ultimatum game with performed good deed towards third party by proposer.
- We show that previous good deeds make responders more tolerant to unfair proposals.
- Individuals are not only influenced by payoffs or equity issues, but also by past deeds.

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\textbf{ABSTRACT}

How do people react to a mix of good deeds to a third party and bad deeds against them? A modified ultimatum game shows that previous good deeds make responders substantially more tolerant to unfair proposals.

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\textbf{1. Introduction}

We frequently see individuals performing good and bad deeds. The theory of reciprocity predicts that 'good deeds' are usually rewarded while bad ones are punished, even if it is costly for the individual (Falk and Fischbacher, 2006; Rabin, 1993). Nevertheless, little is known on people's reactions when they face a mix of good and bad deeds, especially if their reaction is costly for them. We explore how individuals behave when they face a bad deed perpetrated by someone who has previously performed a good deed directed not to them, but to a third party. Does the 'victim' simply ignore this previous good deed and react to the bad deed? Or does he take into account the virtuous act, and if so, what will be the overall effect? For example, will consumers be less willing to boycott a polluting firm if this firm devotes a part of its profits to fight hunger in the world? In the same vein, does a firm proposing cause-related products make consumers more tolerant to price increases? To fill this gap, we designed a modified ultimatum game where the proposer first performs a good deed towards a third party. We investigate whether the responder is more or less tolerant to a proposer's unfair sharing because of his previous good deed to a third party.

The originality of our paper is at least twofold. First, we consider in a coherent framework how people react to a mix of good and bad deeds, when they are victims of bad deeds. Second, we test the predictions of licensing others' past moral behavior theory that states that people who commit a bad deed are judged less harshly...
when they have previously performed a good deed. The remainder of this note is organized as follows. Section 2 provides an overview of related literature and presents our main behavioral hypothesis. Section 3 exposes the experimental strategy. The results are presented and discussed in Section 4. Section 5 concludes and draws some policy implications.

2. Overview of related literature and hypotheses

Psychologists frequently describe people's behavior as being influenced by a strong need to maintain consistency between one's actions, or even feelings, and certain values, long term goals, or identities they seek to uphold (Benabou and Tirole, 2006). Nevertheless, individuals' actions do not always seem consistent. For instance, one will refrain from eating an unhealthy main course and will feel himself licensed to choose a sweet dessert. Subsequent actions that are inconsistent with prior deeds can be due to the influence of these prior deeds. It is precisely what the moral licensing theory predicts: prior good deeds can affect individuals' future behavior and liberate them to act in ways that are not consistent with their prior actions.1 Some studies provide empirical support that past good deeds can license individuals to engage in socially undesirable behaviors (see Clot et al., in press).

For example, Khan and Dhar (2006) showed that preferences for a luxury product were significantly higher for individuals who imagined performing a charitable action first (57.4%) than for others who do not (27.7%). In the same vein, Sachdeva et al. (2009) found that writing a self-relevant story containing positive words referring to fairness and carefulness reduces people's donation (up to $10) to a charity of their choice ($5.30 for those who wrote a negative story versus $1.07 for those who wrote a positive story).

In another experiment, Mazar and Zhong (2010) showed that purchasing green products increased antisocial behaviors, such as lying and stealing.

From a conceptual viewpoint, the self-licensing literature suggests two mechanisms that can explain why good deeds can lead to subsequent bad deeds. First, good deeds reframe bad deeds. In the so-called moral credentials model, good deeds change the meaning of subsequent behaviors, which are not perceived as bad deeds at all. For instance, using a low-energy light bulb can unconsciously lead the individual not to switch off lights when leaving a room, thinking that he does not waste energy because of the energy-saving bulb. Second, good deeds balance behavior when they interact with others. This theory asserts that individuals are averse to inequity and are willing to sacrifice resources to reduce it. Unlike predictions of traditional economics, which stipulate that agents maximize their absolute payoff regardless of their past actions or others' choices, our hypothesis is that past actions matter and influence the willingness of individuals to reduce inequity.

3. Experimental design

We conducted a paper and pencil experiment with students and staff from the universities of Montpellier and Nîmes (south of France). 162 students (from a wide range of disciplines) and staff (mean age = 36.6 years and 78% females) participated in this experiment. Participants were members of the university chorale and the experiment was run at the end of weekly rehearsals. All subjects were unfamiliar with experimental economics. They received a show-up-fee of €5. The instructions were read aloud by the monitor and were also available on a written sheet. Participants were asked not to talk during the experiment; otherwise they would be excluded from the drawing lots. A €30 prize was available to every pair of participants chosen through drawing lots (1 winner per 15 players).2 Before inviting the subjects to make their decisions, the monitor asked them whether they had well understood the rules of the game.

Our experiment consists of a one-shot ultimatum game with two treatments (see Fig. 1): a between-subject experiment with a Good Deed Treatment (GDT) where the proposer has previously performed a good deed and a Control Treatment (CT) in which the proposer did not. The GDT included two stages. In the first stage, the proposer has the possibility to engage himself into a prosocial action towards a third party.3 More precisely, the proposer has to help another actor even if it is costly because he expects long term net benefits. On the other hand, a person is a strong reciprocator if he is willing to sacrifice resources to reward fair and to punish unfair behavior even if this is costly and provides neither present nor future material rewards for him (Fehr et al., 2002). Strong reciprocity conditions behavior depending on the respect or violation of social norms by others. The model of Falk and Fischbacher (2006) also predicts that there are two aspects underlying the evaluation of the kindness of an action: the consequences of the considered action, and the agent's underlying intentions. Nevertheless, reciprocity models do not offer clear predictions of a victim's behavior when the author of the bad deed has previously performed a good deed in favor of a third party. We call this situation a 'reciprocity dilemma' because it mixes direct and indirect reciprocity, negative and positive reciprocity. Predicting the overall effect is unclear. In our above-mentioned example, if a responder is an altruistic reciprocator, his reaction will be to punish the proposer for the unkind behavior towards him. However, strong reciprocity predicts that a responder could reward a proposer because of his good deed towards a third party in order to reward the respect of some social norms.

The inequity aversion developed by Fehr and Schmidt (1999) constitutes an alternative framework to predict individuals' behavior when they interact with others. This theory asserts that individuals are averse to inequity and are willing to sacrifice resources to reduce it. Unlike predictions of traditional economics, which stipulate that agents maximize their absolute payoff regardless of their past actions or others' choices, our hypothesis is that past actions matter and influence the willingness of individuals to reduce inequity.

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1 Sachdeva et al. (2009) provide evidence that this phenomenon also occurs in the opposite direction. Indeed, because of previous bad deeds, individuals can be more likely to undertake good deeds, that is, moral cleansing.

2 A similar method is used in Exadaktylos et al. (2013).

3 The proposer has also been given the possibility to refuse to help the association as we aimed to induce a voluntary good deed. There was only one proposer who did not offer to volunteer for the charity in the good deed treatment (GDT) and she/he has been deleted from the database. Consequently, the responders faced proposals only from people who stated their willingness to volunteer in favor of the charity. As suggested by a referee, an insightful extension is about the effect of refusing to perform the good deed or accepting but on responders' reactions. In this case, we might expect a strong negative reaction from responders to unfair offers. Unfortunately, we cannot investigate this interesting issue with our data.
choose the number of hours between 0 and 3 that he is willing
to spend to help a charity namely the “Restos du Coeur”. This
association is the most popular in France, which aims to distribute
food packages and hot meals to people in need. The individual was
also informed that in a second stage he will play with another
participant who will be informed about his choice regarding the
Restos du Coeur cause. This stage of the experiment was based on
an oral commitment without any enforcement device (for a similar
method, see for instance Khan and Dhar, 2006). According to
Akerlof (2005), norms of appropriate behaviors differ across space
and time. To overcome this potential bias, responders of GDT were
asked to appreciate the action of proposer on a Likert 9-point scale
(from 1 = bad deed to 9 = good deed). Overall, 4 sessions of about
15 min each were run. Participants were randomly assigned to the
control treatment (N<sub>CT</sub> = 75) or the good deed treatment (N<sub>GDT</sub> = 72).<sup>4</sup> Proposers were in another room playing simultaneously with
responders.<sup>5</sup>

In the second stage, we performed a reduced ultimatum game,
using the strategy method in which responders decide on a limited
range of offers, that are 50%, 40%, 30%, 20%, and 10% of the
proposer’s endowment. The responders in GDT were informed that
the proposer has decided to devote some time to help “Restos du
Coeur” without stipulating the number of hours. Following the
contributions of Güth et al. (1982) and Falk and Fischbacher (2006)
we considered that proposals lower than 40% of the endowment
are unfair proposals and can be considered as ‘bad deeds’. In
an ultimatum game, the recipient can punish the proposer for
“cheating” on an implicit social norm of reciprocal sharing by
rejecting the proposer’s offer (Hoffman et al., 2008). Consequently,
we compared the responders’ reaction to unfair proposals between
these two treatments. This strategy method allowed us to elicit the
minimum share that responders are willing to accept. The responders were also asked to state the minimum amount that they were willing to accept. According to the licensing others’

4. Results and discussions

We focused only on responder’s behavior, resulting from the
second stage in the treatments CT and GDT. The number of hours
chosen by the proposer was between 0 and 2 with an average
of 1.36. The average of proposals was €12.33 over €30. These
data were only useful for matching and paying proposers and
responders after drawing of lots.

First, we estimated how responders evaluate the voluntary
action of the proposer towards “Restos du Coeur”. The average
score for proposer’s volunteering given by the responder is equal
to 8.07 on a Likert 9-point scale. This supports the insight that
responders (in the GDT) considered the volunteering of proposers
as a good deed. Responders in the control treatment were not
concerned by this step.

Fig. 2 shows the mean of minimum accepted offers that
responders of CT and GDT are willing to accept. In the good
deed treatment this amount is €4.21 against €6.55 in the Control
group. This corresponds respectively to 14% and 21.8% of the
proposer’s endowment. In other words, the minimum acceptable
offer for responders in the Good Deed Treatment is less than
the minimum acceptable offer in the Control Treatment. This
difference is significant (p = 0.004) and supports the insight
regarding the licensing effect of a previous good deed even if the
beneficiary is a third party.

Fig. 3 and Table 1 provide the acceptance rates of proposers’
offers by responders. First, acceptance rates in the control group
(CT) are consistent with results of previous studies on the
ultimatum game (Andrade and Ariely, 2009; Falk and Fischbacher,
2006; Güth et al., 1982). There is a decrease in acceptance rates
with lower offers of proposers and unfair offers lead to higher rejection rates.

Second, except for equal sharing, the acceptance rate of proposals by responders is higher in GDT compared to CT (Table 1). Responders in the GDT treatment accept on average significantly more unfair offers than responders of the control group. For instance, if only 10% of the proposer’s endowment is offered, the acceptance rate is 28% in the control treatment and doubles (56%) in the good deed treatment. Even if this pattern needs to be verified in future experiments, the lower the offer, the stronger the compensation effect of a previous good deed directed towards a third party. These findings support that previous good deeds matter. Our findings give support for licensing others’ past moral behavior theory predictions compared to predictions from traditional economics or inequity aversion models. Even if the responder is the victim of a bad deed, he is more tolerant to unfair offers from a player who stated doing a good deed directed at a third party than towards a proposer who has not done any good deed before.

5. Conclusion

Our research contributes to the literature that focuses on the role of moral self-licensing on behavior, and more precisely on licensing others’ past moral behaviors. The findings support that a proposer’s previous good deed to a third party makes responders substantially more tolerant to unfair proposals. Responders, being informed on a voluntary good deed performed previously by the proposer, accept on average significantly more unfair offers than responders in the control group. Moreover, the tendency to accept more easily offers in the good deed treatment compared to the control treatment becomes more pronounced when offers become more unfair. Unlike traditional economics and inequity aversion predictions, individuals are not only influenced by their payoff or equity issues, but also by past deeds.

Good deeds can also be performed for strategic reasons that can be consistent with self-interest maximization. For instance, some firms could strategically perform prosocial activities with the aim of making consumers more tolerant towards their bad deeds. For example, firms can help good causes through donations or cause-related-products to make consumers more tolerant to price increase (Grolleau et al., 2011).

Nevertheless, several dimensions of licensing others’ past moral behavior deserve more academic attention. A natural issue is related to the robustness of our results in various settings. For instance, our experiment was done with a chorale group, which means they could be quite familiar with each other. In addition, we used limited monetary incentives. These potential interaction effects may have influenced our findings. For instance, Leider et al. (2009) provide experimental evidence that social connections increase prosocial giving. So it is important to explore whether participants behave differently or not if they are not so connected and if they face stronger monetary incentives. Moreover, does the mechanism remain when the individual performed first a bad deed, making others less willing to enjoy his subsequent good deed? Does the money origin (e.g., windfall versus earned) affect the licensing effect and how? Is there a temporal dimension regarding the effect of past deeds, e.g. does the effect of past deeds fade with time? In another direction, how do people track accountability of good and bad deeds? We believe that the issues we touch in this contribution are ripe for further exploration.

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Appendix. Experimental instructions for responders (Translated from French)

Welcome. You are going to participate in an experiment about decision making. There is no right or wrong answer. The session will last about fifteen minutes. Your answers will be treated anonymously. During this experimental session, you are requested to make decisions and you can earn money. Please note that during the experiment communication is not allowed. If you have questions, please raise your hand. We will answer your questions in private.

You have received a closed envelope containing a questionnaire. This questionnaire is intended for the study of your decision-making. Please answer honestly.

First stage: (Good deed treatment only)

During this questionnaire you will be randomly matched with another participant. This participant had voluntarily stated that he was willing to devote time to help the association “Restos du Coeur” to distribute meals to people in need.
What do you think of this participant? Please, evaluate whether this behavior constitutes a bad or a good deed on the following scale:

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<td>Bad deed</td>
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**Second stage:** (Good deed and Control treatments)

You will earn money according to the procedure defined in the sheet if you are chosen by lots (1 winning lot for every 15 participants). Your identity and that of the other participant will remain anonymous. This participant received an amount of money €30, to share with you. If you accept the offer that she/he will propose to you, the transaction is carried out, and each of you will get the amount specified by him. If you reject his offer, neither she/he nor you get anything.

Please indicate whether you agree or not with an amount included in each of the following ranges:

- An amount between €15 and 13: I accept □ I refuse □
- An amount between €12 and 10: I accept □ I refuse □
- An amount between €9 and 6: I accept □ I refuse □
- An amount between €5 and 3: I accept □ I refuse □
- An amount between €2 and 0: I accept □ I refuse □
- What is the minimum offer that you are willing to accept? ___

**References**


