



# Contract Negotiation between Principal and Agent.

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#### **Experimental Economics**

#### Why laboratory experiments?

- Test of economic theories
- Real subjects in a controlled environment (information conditions)
- Real incentives: monetary payment depends on subjects' choices
- Repeatability
- Costs and validity

Current experimental topics at our department

- Principal-Agent Conflict
- Capital Market Simulation
- Time Series (Eye Tracker Experiments)

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#### Agenda

- Motivation
- Agency Theory
- The Experiment
- Theoretical Solution
- Hypotheses
- Results



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#### **Motivation**



Whitford, A. B., Miller, G. B. and Bottom, W. H. Negotiated Compliance: Social Solution to the 'Principal's Problem' (2005)

- Principal Agent Problem and its Solution: Are strong incentives the only possibility to motivate high performance?
- How does outcome-based compensation (such as bonuses or commission) influence agents' effort?
- Incentives vs. social solution of the problem.



#### **Agency Theory**



An **Agency Relationship** represents a hierarchical relationship and it arises between two or more parties when one, designated as the **agent**, acts on behalf of the other, designated as the **principal**.

- Conflict of interests
- Information Asymmetry
- Moral Hazard





#### The Experiment

- Programmed with z-Tree (Zurich Toolbox for Ready-made Economic Experiments).
- Conducted in the Max Jung Laboratory in the 'Institute of Statistic and Operations Research.
- Participants: undergraduate, graduate and post-graduate students of the Karl-Franzens-University of Graz.





#### The experiment is a finite game and it consists of 4 sessions.

- Each session represents a simple principal-agent relationship:
  - Company's owner (principal) is soliciting a new order. He/she delegates this task to an employee (agent) by offering him/her a labour contract.





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	Optimistic Scenario	Pessimistic Scenario	Opportunity Costs
Revenue (x)	$x_{H} = 30$	$x_{L} = 10$	
	Proba	bilities	
High effort ( <i>e<sub>H</sub></i> )	p	1- ho	С <sub>Н</sub>
Low effort ( <i>e</i> <sub>L</sub> )	q	1-q	CL

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#### The Design of the Experiment







#### Two Phases of the Experiment

- The negotiation phase face-to-face; it lasts around 20 minutes; participants have all necessarily data for all four sessions and they have to act out the four contracts
- The decision phase on the computer; participants have to make a final decision for each session; the verbal agreement, made during the face-to-face negotiation phase, is not binding for the participants.





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■ The Model:

$$\max_{S,b} p \cdot x_{H} + (1-p) \cdot x_{L} - (S+p \cdot b) \iff \min_{S,b} S+p \cdot b$$

$$S+p \cdot b - c_{H} \ge \underline{U}$$

$$S+p \cdot b - c_{H} \ge S+q \cdot b - c_{L}$$

$$S, b \ge 0$$

$$(NNC)$$

$$\Rightarrow b = \frac{c_H - c_L}{p - q}$$

Theoretical Considerations

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Session 1	Optimistic Scenario	Pessimistic Scenario	Opportunity Costs
Revenue (x)	30 MU	30 MU	
	Proba	bilities	
High effort ( <i>e<sub>H</sub></i> )	0,8	0,2	8,5 MU
Low effort $(e_L)$	0,5	0,5	5,0 MU
Session 2	Optimistic Scenario	Pessimistic Scenario	Opportunity Costs
Revenue (x)	30 M U	30 M U	
	Proba	bilities	
High effort ( <i>e<sub>H</sub></i> )	0,8	0,2	8,5 MU
Low effort (e)	0.5	0.5	3.5 MU

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QP	Session 1	Optimistic Scenario	Pessimistic Scenario	Opportunity Costs
<u> </u>	Revenue (x)	30 MU	30 MU	
	. ,	Proba	bilities	
	High effort ( <i>e<sub>H</sub></i> )	0,8	0,2	8,5 MU
	Low effort $(e_L)$	0,5	0,5	5,0 MU
-				
-	Session 2	Optimistic Scenario	Pessimistic Scenario	Opportunity Costs
-	Revenue (x)	30 MU	30 MU	
		Proba	bilities	
	High effort ( <i>e<sub>H</sub></i> )	0,8	0,2	8,5 MU
-	Low effort ( <i>e<sub>L</sub></i> )	0,5	0,5	3,5 MU
	Session 3	Optimistic Scenario	Pessimistic Scenario	Opportunity Costs
	Revenue (x)	30 M U	30 M U	
		Proba	bilities	
	High effort ( <i>e<sub>H</sub></i> )	0,8	0,2	8,5 MU
	Low effort $(e_i)$	0.6	0.4	5.0 MU

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<b>PP</b>	Session 1	Optimistic Scenario	Pessimistic Scenario	Opportunity Costs	
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		Proba	bilities		
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_	Low effort $(e_L)$	0,5	0,5	5,0 MU	_
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-	Revenue (x)	30 MU	30 MU		_
		Proba	ibilities		
	High effort ( <i>e<sub>H</sub></i> )	0,8	0,2	8,5 MU	
-	Low effort ( <i>e</i> <sub>L</sub> )	0,6	0,4	5,0 MU	_
	Session 4	Optimistic Scenario	Pessimistic Scenario	Opportunity Costs	
	Revenue ( <i>x</i> )	30 M.U	30 MU		
		Proba	bilities		
	High effort ( <i>e<sub>H</sub></i> )	0,8	0,2	8,5 MU	
	Low effort $(e_L)$	0,6	0,4	3,5 MU	
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	Theoretical Considerat	ions F	our Sessions		13 / 23

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Theoretical Considera	tions	↓ □ >		11

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#### **Theoretical Solution - Four Sessions**

		Marginal Cost o	f Effort of Agent	
		Low	High	
		$(c_H-c_L=3,5)$	$(c_H-c_L=5,0)$	
	High	Session 1	Session 2	
Marginal efficiency	(p-q=0,3)	b = 11, (6); S = 0	b = 16, (6); S = 0	
of Agent	Low	Session 3	Session 4	
	(p-q=0,2)	b = 17, 5; S = 0	b = 25, 0; S = 0	

Four Sessions

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#### Hypotheses

- High effort can be induced with a compensation package that is significantly different from the theoretical compensation, which means that the agent can also be motivated to supply high effort with a fixed salary and the bonus lower than the critical bonus suggested by the principal-agent theory.
- 2 No significant discrepancies can be detected in the compensation packages offered in the four sessions of the experiment.





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			Bonus			Flat Wage	
Extended Version		Observed	Theoretical	Sig.	Observed	Theoretical	Sig
Session 1	Mean Median	4,93 4,50	11,67	0,000	9,91 10,00	0,00	0,000
Session 2	Mean Median	6.07 6,00	16,67	0,000	8,74 9,00	0,00	0,000
Session 3	Mean Median	4,48 4,00	17,50	0,000	8,83 10,00	0,00	0,000
Session 4	Mean Median	5,33 5,00	25,00	0,000	8,29 8,00	0,00	0,000

The bonus and the flat wage offered in the experiment are significantly different to the bonus and the fixed salary predicted by the theory (T-test).





		Bo			
		< Critical Bonus	$\geq$ Critical Bonus		
Effort	High	41	1	42	
		97,60%	2,4%		
	Low	34	0	34	
		100,00%	0,00%		
	Exit	8	0	8	
		100,00%	0,00%		
		83	1	84	
		98,80%	1,20%		

The majority of principals offered a bonus less than the bonus necessary for inducing high effort (the bonus predicted by the model).

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- In our experiment we could observe that principals offered lower bonuses than the critical bonus and additionally they used risk-free compensation in the form of a flat wage.
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	Mean Rank
Bonus & Flat Wage (Session 1)	2,62
Bonus & Flat Wage (Session 2)	2,69
Bonus & Flat Wage (Session 3)	2,45
Bonus & Flat Wage (Session 4)	2,24
	Test Statistics <sup>a</sup>
Ν	21
Chi-Square	1,957
df	3
Asymp. Sig.	0,581
a Friedman Test	

 Compensation packages offered in four sessions do not differ significantly from each other.

The second hypothesis can be thus corroborated.

Analysis and Results

Results

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#### Principal's Deviations

			Bonus and
	Bonus	Flat Wage	Flat Wage
No Deviation	66	75	67
	78,58%	89,29%	79,76%
Positive Deviation	9	9	12
	10,71%	10,71%	14,29%
Negative Deviation	9	0	5
	10,71%	0,00%	5,95%
	84	84	84
	100,00%	100,00%	100,00%

#### Agent's Deviations

	Effort
No Deviation	65
	77,38%
Negative Deviation	19
	22,62%
	84
	100,00%

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#### Conclusions

- The outcomes in our experiment are not consistent with the theoretical solution.
  - Bonuses equal to or higher than the theoretical bonus are very rare.
  - Nevertheless, we observe high effort in many cases.
  - There are no significant differences between the compensation packages offered in 4 sessions.
- Both principals and agents mostly abide by the agreements made in the negotiation phase.





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