

Table 1: Basic descriptive statistics

| | S1 | S2 | S3 | S4 | S5 | N1 | N2 | N3 | N4 | |
|--|------|------|------|------|------|------|------|------|------|--|
| Number of Subjects | | | | | | | | | | |
| Total | 22 | 16 | 18 | 22 | 22 | 18 | 22 | 24 | 20 | |
| Group A | 6 | 5 | 7 | 7 | 7 | 5 | 8 | 8 | 6 | |
| Group B | 9 | 7 | 7 | 9 | 9 | 6 | 7 | 9 | 9 | |
| Group C | 7 | 4 | 4 | 6 | 6 | 7 | 7 | 7 | 5 | |
| Mean household income in 2002 (in 1 million dong) | | | | | | | | | | |
| Total | 36.6 | 35.8 | 20.3 | 18.5 | 15.0 | 28.0 | 17.5 | 9.1 | 6.8 | |
| Group H (High income) | 80.6 | 51.9 | 26.1 | 32.6 | 29.5 | 49.0 | 29.2 | 14.4 | 13.5 | |
| Group M (Middle income) | 21.3 | 29.9 | 19.9 | 14.9 | 11.8 | 26.8 | 13.4 | 7.8 | 5.0 | |
| Group L (Low income) | 18.4 | 26.1 | 10.6 | 6.9 | 5.3 | 14.0 | 8.2 | 4.7 | 2.1 | |
| Age (mean) | 47.7 | 44.6 | 48.8 | 43.1 | 48.3 | 54.1 | 42.5 | 49.9 | 48.6 | |
| Gender (1=male) (mean) | 0.59 | 0.88 | 0.83 | 0.68 | 0.82 | 0.44 | 0.36 | 0.50 | 0.50 | |
| Education (mean) (years) | 7.2 | 7.1 | 8.4 | 5.8 | 5.0 | 7.8 | 8.0 | 4.8 | 7.6 | |
| Number of illiterate subjects | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 4 | 2 | |
| Acquaintance ratio (mean) | 0.42 | 0.86 | 0.76 | 0.74 | 0.82 | 0.62 | 0.91 | 0.98 | 0.90 | |
| Main occupation of the subject (multiple answers) | | | | | | | | | | |
| Farming | 0 | 2 | 3 | 20 | 17 | 1 | 0 | 20 | 15 | |
| Livestock | 1 | 3 | 10 | 11 | 7 | 1 | 10 | 13 | 2 | |
| Fishery | 0 | 15 | 4 | 2 | 2 | 0 | 0 | 4 | 0 | |
| Trade | 8 | 0 | 0 | 1 | 1 | 5 | 3 | 2 | 1 | |
| Business | 5 | 0 | 3 | 0 | 1 | 1 | 3 | 2 | 2 | |
| Government officer | 2 | 3 | 4 | 3 | 3 | 4 | 4 | 6 | 2 | |
| Casual work | 6 | 0 | 2 | 1 | 3 | 0 | 1 | 4 | 2 | |
| Not working | 5 | 0 | 3 | 0 | 2 | 9 | 2 | 2 | 3 | |
| No. of ROSCA contributors | 3 | 7 | 3 | 14 | 9 | 7 | 12 | 20 | 7 | |
| Data from the 2002 Living Standard Measurement Survey (sample: 25 households) | | | | | | | | | | |
| Village Gini coefficients | 0.44 | 0.19 | 0.30 | 0.36 | 0.38 | 0.29 | 0.38 | 0.28 | 0.36 | |
| Distance to nearest market | 0.0 | 5.0 | 0.0 | 4.2 | 0.0 | 0.0 | 1.0 | 3.0 | 0.3 | |
| Number of households receiving remittance from overseas | | | | | | | | | | |
| | 7 | 2 | 1 | 1 | 0 | 5 | 2 | 0 | 0 | |
| Daily wage for male labor for harvesting (1000 dong) | | | | | | | | | | |
| | - | - | 30 | 30 | 30 | 18 | 18 | 20 | 20 | |

Table 2: Correlations between key variables**(1) Age, gender, education, and income**

| Total | Age | Gender | Education | Income |
|-----------|----------|--------|-----------|--------|
| Age | 1.00 | | | |
| Gender | 0.01 | 1.00 | | |
| Education | -0.36*** | 0.13* | 1.00 | |
| Income | -0.06 | -0.01 | 0.13* | 1.00 |

| South | Age | Gender | Education | Income |
|-----------|----------|--------|-----------|--------|
| Age | 1.00 | | | |
| Gender | 0.04 | 1.00 | | |
| Education | -0.44*** | 0.16 | 1.00 | |
| Income | -0.11 | -0.12 | 0.11 | 1.00 |

| North | Age | Gender | Education | Income |
|-----------|----------|--------|-----------|--------|
| Age | 1.00 | | | |
| Gender | 0.05 | 1.00 | | |
| Education | -0.28*** | 0.14 | 1.00 | |
| Income | 0.11 | -0.06 | 0.22** | 1.00 |

(2) Occupations, overseas remittance, ROSCA participation and key variables

| Total | Age | Gender | Education | Income |
|---------------------|--------|---------|-----------|----------|
| Farm/livestock | -0.13* | -0.03 | -0.17** | -0.21*** |
| Fishery | -0.09 | 0.08 | -0.10 | 0.18** |
| Trade | 0.08 | 0.04 | 0.01 | -0.03 |
| Business | 0.09 | -0.08 | 0.00 | 0.14* |
| Government officer | -0.12 | 0.12 | 0.24*** | -0.03 |
| Overseas remittance | -0.05 | -0.07 | 0.02 | 0.49*** |
| ROSCA member | -0.13* | -0.16** | 0.01 | -0.07 |

| South | Age | Gender | Education | Income |
|---------------------|---------|--------|-----------|---------|
| Farm/livestock | -0.10 | 0.03 | -0.05 | -0.15 |
| Fishery | -0.12 | 0.09 | -0.09 | 0.18* |
| Trade | 0.20** | 0.08 | 0.18* | -0.06 |
| Business | 0.10 | 0.04 | 0.07 | 0.12 |
| Government officer | -0.20** | 0.22** | 0.25** | -0.07 |
| Overseas remittance | -0.13 | -0.15 | 0.04 | 0.46*** |
| ROSCA member | -0.23** | -0.06 | 0.04 | 0.02 |

| North | Age | Gender | Education | Income |
|---------------------|-------|---------|-----------|----------|
| Farm/livestock | -0.17 | -0.04 | -0.33*** | -0.35*** |
| Fishery | 0.00 | -0.09 | -0.13 | -0.03 |
| Trade | -0.06 | 0.00 | -0.01 | 0.03 |
| Business | 0.08 | -0.22** | -0.10 | 0.22* |
| Government officer | -0.05 | 0.07 | 0.23** | 0.09 |
| Overseas remittance | 0.07 | -0.03 | 0.00 | 0.62*** |
| ROSCA member | -0.09 | -0.11 | -0.03 | -0.09 |

Note: * Significant at the 10% level. ** Significant at the 5% level. *** Significant at the 1% level.

Table 3: Three series of pairwise lottery choices

| Option A | Option B | Expected payoff difference (A-B) |
|-----------------------------------|-------------------------------------|----------------------------------|
| Series 1 | | |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 68,000 and 9/10 of 5,000 | 7,700 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 75,000 and 9/10 of 5,000 | 7,000 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 83,000 and 9/10 of 5,000 | 6,200 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 93,000 and 9/10 of 5,000 | 5,200 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 106,000 and 9/10 of 5,000 | 3,900 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 125,000 and 9/10 of 5,000 | 2,000 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 150,000 and 9/10 of 5,000 | -500 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 185,000 and 9/10 of 5,000 | -4,000 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 220,000 and 9/10 of 5,000 | -7,500 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 300,000 and 9/10 of 5,000 | -15,500 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 400,000 and 9/10 of 5,000 | -25,500 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 600,000 and 9/10 of 5,000 | -45,500 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 1,000,000 and 9/10 of 5,000 | -85,500 |
| 3/10 of 40,000 and 7/10 of 10,000 | 1/10 of 1,700,000 and 9/10 of 5,000 | -155,500 |
| Series 2 | | |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 54,000 and 3/10 of 5,000 | -300 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 56,000 and 3/10 of 5,000 | -1,700 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 58,000 and 3/10 of 5,000 | -3,100 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 60,000 and 3/10 of 5,000 | -4,500 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 62,000 and 3/10 of 5,000 | -5,900 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 65,000 and 3/10 of 5,000 | -8,000 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 68,000 and 3/10 of 5,000 | -10,100 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 72,000 and 3/10 of 5,000 | -12,900 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 77,000 and 3/10 of 5,000 | -16,400 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 83,000 and 3/10 of 5,000 | -20,600 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 90,000 and 3/10 of 5,000 | -25,500 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 100,000 and 3/10 of 5,000 | -32,500 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 110,000 and 3/10 of 5,000 | -39,500 |
| 9/10 of 40,000 and 1/10 of 30,000 | 7/10 of 130,000 and 3/10 of 5,000 | -53,500 |
| Series 3 | | |
| 5/10 of 25,000 and 5/10 of -4,000 | 5/10 of 30,000 and 5/10 of -21,000 | 6,000 |
| 5/10 of 4,000 and 5/10 of -4,000 | 5/10 of 30,000 and 5/10 of -21,000 | -4,500 |
| 5/10 of 1,000 and 5/10 of -4,000 | 5/10 of 30,000 and 5/10 of -21,000 | -6,000 |
| 5/10 of 1,000 and 5/10 of -4,000 | 5/10 of 30,000 and 5/10 of -16,000 | -8,500 |
| 5/10 of 1,000 and 5/10 of -8,000 | 5/10 of 30,000 and 5/10 of -16,000 | -10,500 |
| 5/10 of 1,000 and 5/10 of -8,000 | 5/10 of 30,000 and 5/10 of -14,000 | -11,500 |
| 5/10 of 1,000 and 5/10 of -8,000 | 5/10 of 30,000 and 5/10 of -11,000 | -13,000 |

Table 4: Switching point (question at which preference switches from option A to option B) and approximations of σ (parameter for the curvature of power value function), α (probability sensitivity parameter in Prelec's weighting function), and λ (loss aversion parameter)

| Series 1 (Question 1-14) | | | | | | | | Series 2 (Question 15-28) | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|--------------|----------------------------|--------------|-----|-----|-----|-----|-----|----------|
| $\sigma \backslash \alpha$ | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 | $\sigma \backslash \alpha$ | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 |
| 0.2 | 9 | 10 | 11 | 12 | 13 | 14 | never | 0.2 | never | 14 | 13 | 12 | 11 | 10 | 9 |
| 0.3 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 0.3 | 14 | 13 | 12 | 11 | 10 | 9 | 8 |
| 0.4 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 0.4 | 13 | 12 | 11 | 10 | 9 | 8 | 7 |
| 0.5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 0.5 | 12 | 11 | 10 | 9 | 8 | 7 | 6 |
| 0.6 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 0.6 | 11 | 10 | 9 | 8 | 7 | 6 | 5 |
| 0.7 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 0.7 | 10 | 9 | 8 | 7 | 6 | 5 | 4 |
| 0.8 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0.8 | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| 0.9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0.9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

Bold indicates choices compatible with EU ($\alpha=1$) and risk-aversion.

Series 3 (Question 29-35)

| Switching question | $\sigma=0.2$ | $\sigma=1$ |
|--------------------|-------------------------|-------------------------|
| 1 | $\lambda > 0.14$ | $\lambda > 0.29$ |
| 2 | $0.14 < \lambda < 1.26$ | $0.29 < \lambda < 1.53$ |
| 3 | $1.26 < \lambda < 1.69$ | $1.53 < \lambda < 1.88$ |
| 4 | $1.69 < \lambda < 2.24$ | $1.88 < \lambda < 2.42$ |
| 5 | $2.24 < \lambda < 3.62$ | $2.42 < \lambda < 4.32$ |
| 6 | $3.62 < \lambda < 4.76$ | $4.32 < \lambda < 5.43$ |
| 7 | $4.76 < \lambda < 9.13$ | $5.43 < \lambda < 9.78$ |

Table 5: Number of subjects by switching points

(1) Series 1 and 2

| Student subjects Series 2 | Switching point (question) in Series 1 | | | | | | | | | | | | | | Never | Total | |
|------------------------------|--|---|---|---|---|---|---|---|---|----|----|----|----|----|-------|-------|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | |
| 1 | 1 | | | 1 | 1 | | 1 | | 1 | | | | | | | 2 | 7 |
| 2 | | | | | | | | | | | | | | | | | 0 |
| 3 | | | | | | | | | | | | | | | | | 0 |
| 4 | | | | 1 | | | | | | | 1 | | | | | | 2 |
| 5 | | | | | | | | | 1 | | | | | | | 1 | 2 |
| 6 | | | | | | | | | | | | | | | | | 0 |
| 7 | | | | | | 1 | 3 | 3 | 1 | | | | 1 | | | 1 | 10 |
| 8 | 1 | | | | 1 | | 1 | 1 | 1 | 1 | 1 | | | | | | 7 |
| 9 | | | | | | | | 1 | 1 | 1 | | | | | | | 3 |
| 10 | | | | | | | | 2 | | | | 1 | | | | | 3 |
| 11 | | | | | 1 | 1 | | | 1 | | | 2 | | | | | 5 |
| 12 | | | | | | 1 | 2 | | | | | | 2 | | | | 5 |
| 13 | | | | | | | | | | | | | 1 | 1 | | 1 | 3 |
| 14 | | | | | | | | | | | 1 | 1 | | | | | 2 |
| Never | 1 | | | | | 1 | | | 1 | | | | | | | 3 | 6 |
| Total | 3 | 0 | 0 | 2 | 3 | 4 | 7 | 7 | 7 | 2 | 3 | 4 | 4 | 1 | | 8 | 55 |

| Field experiments Series 2 | Switching point (question) in Series 1 | | | | | | | | | | | | | | Never | Total | |
|-------------------------------|--|---|---|---|---|----|----|----|----|----|----|----|----|----|-------|-------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | |
| 1 | 6 | | 2 | 1 | 1 | 5 | 2 | 3 | 2 | 2 | 1 | | | | | 8 | 33 |
| 2 | | | | 1 | | 1 | 1 | 1 | | | | | | | | | 4 |
| 3 | | 1 | 1 | | | | | 1 | | 1 | | | | | | | 4 |
| 4 | | | | | | 1 | 1 | | 1 | 1 | | | | | | 3 | 7 |
| 5 | | | 2 | 2 | 2 | 1 | 3 | 1 | 1 | | 1 | | | | | 1 | 14 |
| 6 | | 1 | | 1 | 3 | 2 | | | 2 | | | | | | | | 9 |
| 7 | 2 | | | | 1 | 2 | 8 | 2 | | 1 | 1 | | | | | 3 | 20 |
| 8 | | | | 1 | | 2 | 4 | 7 | 2 | 1 | | | | | | 2 | 19 |
| 9 | | | | | | 2 | 3 | 4 | 2 | 3 | 3 | | | | | 1 | 18 |
| 10 | | | | | | | 1 | | 2 | | | 1 | | | | | 4 |
| 11 | | | | | | 1 | 2 | | 1 | 2 | 2 | 2 | | | | | 10 |
| 12 | | | | | | 1 | 1 | 1 | | | 3 | 1 | | | | | 7 |
| 13 | | | | | | | | 1 | | | 1 | 1 | | | | | 3 |
| 14 | | | | | 1 | | | 1 | | | | | 1 | | | | 3 |
| Never | 1 | | 1 | | | 3 | 2 | 5 | 1 | 3 | 2 | | | | | 11 | 29 |
| Total | 9 | 2 | 6 | 6 | 8 | 21 | 28 | 27 | 14 | 14 | 14 | 5 | 1 | 0 | | 29 | 184 |

Bold indicates choices compatible with EU ($\alpha=1$) and risk-aversion.

(2) Series 3

| Switching point (question) in Series 3 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Never | Total | | | | |
|--|---|---|---|---|----|----|----|-------|-------|---|---|----|-----|
| Student Subjects | | | | | 8 | 15 | 7 | 7 | 9 | 2 | 0 | 7 | 55 |
| Field Experiments | | | | | 38 | 26 | 27 | 29 | 26 | 6 | 3 | 29 | 184 |

Table 6: Determinants of risk aversion

| | α (Weighting function) | σ (Value function) | λ (Loss aversion) |
|--------------------|-------------------------------|---------------------------|---------------------------|
| Age | -0.002 | -0.003 * | 0.035 |
| Gender (1=male) | -0.124 ** | -0.004 | -0.607 |
| Education | -0.002 | -0.021 *** | 0.163 |
| Farm/livestock | -0.029 | 0.004 | -1.005 |
| Fishery | 0.051 | 0.244 *** | -0.205 |
| Trade | -0.003 | -0.010 | 1.294 |
| Business | 0.010 | -0.032 | -0.170 |
| Government officer | 0.010 | 0.082 | -1.771 * |
| Relative income | 0.027 | -0.034 | -0.477 |
| Mean income | -0.005 | -0.002 | -0.145 *** |
| Distance to market | -0.007 | -0.027 * | 0.065 |
| ROSCA | 0.108 | -0.083 | -0.435 |
| ROSCA*Bidding | -0.200 ** | 0.206 ** | 0.029 |
| South | 0.247 ** | -0.206 ** | 2.085 |
| Constant | 0.960 *** | 1.012 *** | 3.255 |
| Observations | 181 | 181 | 181 |
| R ² | 0.08 | 0.15 | 0.32 |

Note: * Significant at the 10% level. ** Significant at the 5% level. *** Significant at the 1% level. We estimated α and σ by OLS with robust standard errors, and λ by interval regressions with robust standard errors.

**Table 7: Comparison of Present Bias and discount rates across models and subject pools
(Non-linear regressions)**

| | Exponential | Quasi-hyperbolic | |
|--|-------------|-------------------------|-------------------------------|
| | | + Dummy variables for r | + Dummy variables for β |
| r (Discount rate) | 0.016 *** | 0.005 *** | 0.006 *** |
| Dummy (Field) | 0.007 *** | 0.003 * | |
| Dummy (South) | -0.003 | -0.002 | |
| β (Present bias) | Fixed 1 | 0.633 *** | 0.681 *** |
| Dummy (Field) | | | -0.068 |
| Dummy (South) | | | 0.002 |
| θ (Hyperbolicity) | Fixed 1 | Fixed 1 | Fixed 1 |
| Observations | 3750 | 3750 | 3750 |
| R^2 | 0.66 | 0.77 | 0.77 |

Note: * Significant at the 10% level. ** Significant at the 5% level. *** Significant at the 1% level. We conducted robust regressions, and adjusted standard errors for correlations within individuals. We also estimated the equation (1) with unrestricted θ . However, R^2 did not increase very much.

Table 8: Determinants of Present Bias and discount rates (Non-linear regressions)

| | + Demographic variables for r | + Demographic variables for β |
|--|-------------------------------|-------------------------------------|
| r (Discount rate) | 0.137 | 0.107 |
| β (Present bias) | 0.890 *** | 0.778 ** |
| θ | 4.999 *** | 5.301 *** |
| Age | -0.002 | 0.003 |
| Gender (1=male) | -0.005 * | 0.045 |
| Education | 0.005 | -0.004 |
| Acquaintance ratio | 0.005 | -0.142 |
| Trusted agent | -0.033 | 0.046 |
| Farm/livestock | -0.040 * | 0.050 |
| Fishery | -0.073 *** | 0.068 |
| Trade | -0.029 | -0.023 |
| Business | 0.167 | -0.120 |
| Government officer | -0.047 * | -0.030 |
| Relative income | 0.036 | -0.200 |
| Mean income | -0.005 ** | 0.007 |
| Distance to market | 0.006 | 0.002 |
| ROSCA | -0.104 ** | 0.146 * |
| ROSCA*Bidding | 0.204 ** | -0.270 ** |
| Log (savings) | 0.001 | 0.008 |
| Exp/income ratio | 0.002 | -0.001 |
| Loss aversion (λ) | 0.002 | -0.015 |
| Value fctn curve (σ) | 0.014 | -0.026 |
| South | -0.007 | 0.002 |
| Observations | 2358 | 2358 |
| R ² | 0.79 | 0.78 |

Note: * Significant at the 10% level. ** Significant at the 5% level. *** Significant at the 1% level. We conducted robust regressions, and adjusted standard errors for correlations within individuals. 312 data points with inconsistent answers are excluded from the estimations.

Table 9: Determinants of Present Bias and discount rates among bidding ROSCA participants (Non-linear regressions)

| | + Demographic variables for r | + Demographic variables for β |
|--|---------------------------------|-------------------------------------|
| r (Discount rate) | 0.309 * | 0.12 |
| β (Present bias) | 0.938 *** | 0.51 |
| θ | 3.932 *** | 4.472 *** |
| Age | -0.002 | 0.01 |
| Education | -0.01 | 0.034 ** |
| Relative order | 0.069 | -0.288 |
| Weekly ROSCA | 0.714 | -0.29 ** |
| Monthly ROSCA | -0.13 * | 0.471 ** |
| Loss aversion (λ) | 0 | -0.008 |
| Value fctn curve (σ) | -0.033 | -0.241 |
| Observations | 387 | 387 |
| R^2 | 0.79 | 0.79 |

Note: * Significant at the 10% level. ** Significant at the 5% level. *** Significant at the 1% level. We conducted robust regressions, and adjusted standard errors for correlations within individuals. 18 data points with inconsistent answers are excluded from the estimations.

Table 10: Mean amount sent by Player 1 and proportion of expected return by group of receiver (Player 2)

| | Group A | | Group B | | Group C | | Total | |
|--------------------------|---------|--------|---------|--------|---------|--------|--------|--------|
| Student subjects (South) | | | | | | | | |
| SS1 | 13,091 | (1.51) | 11,636 | (1.73) | 12,000 | (1.45) | 12,242 | (1.56) |
| SS2 | 9,455 | (1.23) | 9,818 | (1.32) | 11,818 | (1.46) | 10,364 | (1.34) |
| Subtotal | 11,273 | (1.37) | 10,727 | (1.53) | 11,303 | (1.45) | 11,303 | (1.45) |
| Student subjects (North) | | | | | | | | |
| SN1 | 7,538 | (1.38) | 7,385 | (1.72) | 11,077 | (1.61) | 8,667 | (1.57) |
| South | | | | | | | | |
| S1 | 4,364 | (1.69) | 6,727 | (1.78) | 7,636 | (1.66) | 6,242 | (1.71) |
| S2 | 6,500 | (1.48) | 9,250 | (1.42) | 8,500 | (1.24) | 8,083 | (1.38) |
| S3 | 3,333 | (2.02) | 4,667 | (1.44) | 5,778 | (1.31) | 4,593 | (1.59) |
| S4 | 4,182 | (2.76) | 5,455 | (2.67) | 6,182 | (2.11) | 5,273 | (2.51) |
| S5 | 3,455 | (1.10) | 4,727 | (0.78) | 6,182 | (0.88) | 4,788 | (0.92) |
| Subtotal | 4,280 | (1.82) | 6,040 | (1.64) | 6,800 | (1.46) | 5,707 | (1.64) |
| North | | | | | | | | |
| N1 | 6,667 | (1.83) | 7,778 | (1.81) | 9,333 | (1.45) | 7,926 | (1.70) |
| N2 | 6,545 | (1.60) | 6,364 | (1.36) | 8,364 | (1.38) | 7,091 | (1.45) |
| N3 | 8,500 | (2.11) | 9,500 | (1.61) | 9,167 | (1.68) | 9,056 | (1.80) |
| N4 | 6,600 | (1.74) | 7,600 | (1.50) | 7,200 | (2.21) | 7,133 | (1.82) |
| Subtotal | 7,143 | (1.83) | 7,857 | (1.56) | 8,524 | (1.68) | 7,841 | (1.69) |
| Total | 6,772 | (1.70) | 7,591 | (1.60) | 8,693 | (1.54) | 7,685 | (1.62) |

Proportion of expected return is shown in the parentheses.

Table 11: Determinants of amount sent by Player 1

| | South | North | Total | + GSS Trust | + GSS Fair | + GSS Helpful |
|-------------------------------|----------|-----------|----------|-------------|------------|---------------|
| Expected return | -315 | -1771*** | -394* | -327 | -315 | -368* |
| Age | -147*** | -27 | -36 | -42 | -56 | -51 |
| Gender (1=male) | 181 | 2236 | 1424 | 1510 | 1660 | 1681 |
| Education | -277** | 150 | -39 | -55 | -85 | -79 |
| Oversea remittance | 668 | 16960*** | 4447** | 5326** | 4608** | 4755** |
| Acquaintance ratio | 1011 | 3078 | 693 | 269 | 441 | 456 |
| Farm/livestock | -1081 | -259 | -1124 | -1306 | -1535 | -1198 |
| Fishery | -2609* | 3415 | -130 | -418 | -356 | 511 |
| Trade | 3654*** | 6837*** | 1306 | 692 | 1394 | 1419 |
| Business | -1163 | -11124*** | -2863*** | -3359*** | -3032*** | -2967*** |
| Government officer | -1623 | 1130 | 128 | -151 | 55 | 65 |
| Relative income | -143 | -1842* | -315 | -257 | 4 | -265 |
| Mean income | 137** | -303*** | 2 | 1 | 5 | -14 |
| Gini coefficient | -17852** | -20594 | -14585 | -15531* | -16154* | -13959 |
| Number of officers | 180 | 312 | 131 | 141 | 159 | 133 |
| Receiver M | 1798*** | 164 | 1214*** | 1229*** | 1231*** | 1220*** |
| Receiver L | 2456*** | 1103* | 1913*** | 1930*** | 1931*** | 1920*** |
| ROSCA | | 2216 | 1860 | 2162 | 1563 | 1932 |
| ROSCA*Bidding | -1219 | | -2638 | -3197 | -2747 | -2819 |
| Loss aversion (λ) | 72 | -681** | 37 | 39 | 79 | 31 |
| Value fctn curve (σ) | -1219 | -6029* | -3088** | -3263** | -3363** | -3742** |
| Present bias | 290 | 8521*** | 767 | 928 | 731 | 355 |
| GSS Trust | | | | 1700* | | |
| GSS Fair | | | | | 2169** | |
| GSS Helpful | | | | | | 1567* |
| South | | | -1454 | -1173 | -1625 | -1063 |
| Constant | 16564*** | 21349** | 14199*** | 13984*** | 14282*** | 14393*** |
| Observations | 147 | 123 | 270 | 270 | 270 | 270 |
| R ² | 0.46 | 0.52 | 0.31 | 0.33 | 0.33 | 0.32 |

Note: * Significant at the 10% level. ** Significant at the 5% level. *** Significant at the 1% level. We conducted robust regressions, and adjusted standard errors for correlations within individuals.

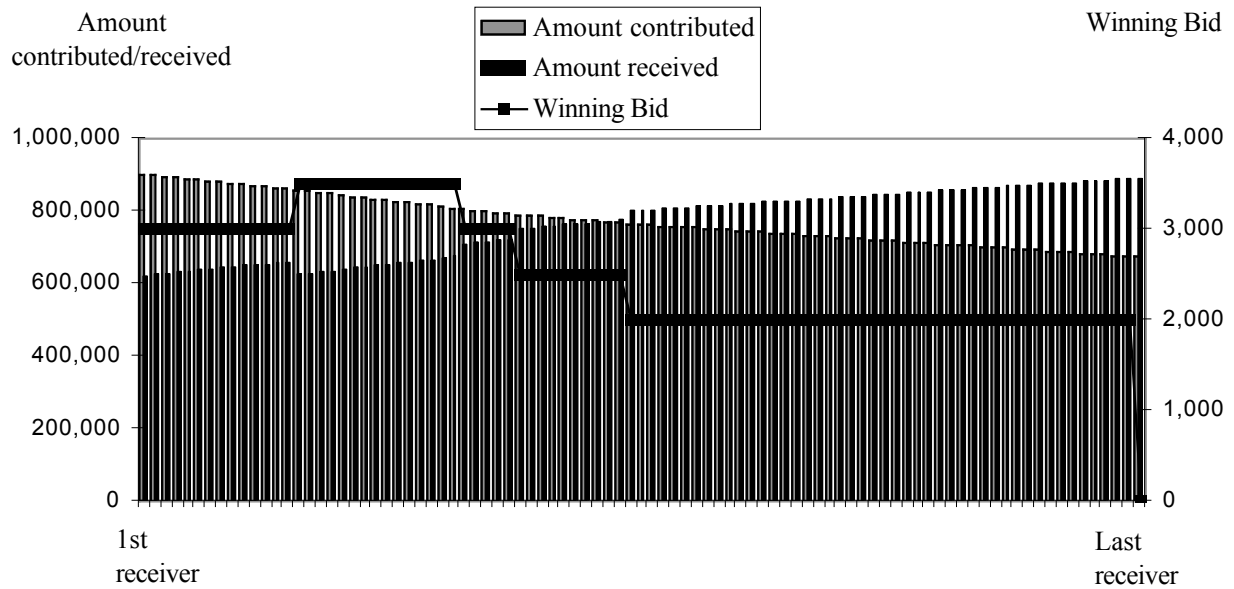
Table 12: Determinants of the proportion sent back by Player 2

| | South | North | Total | + GSS Trust | + GSS Fair | + GSS Helpful |
|--------------------|------------|------------|------------|-------------|------------|---------------|
| Received | -0.180 *** | -0.043 | -0.117 *** | -0.117 *** | -0.117 *** | -0.117 *** |
| Age | 0.001 | 0.005 *** | 0.003 ** | 0.002 ** | 0.003 ** | 0.002 ** |
| Gender (1=male) | 0.025 | 0.184 *** | 0.092 *** | 0.095 *** | 0.090 *** | 0.092 *** |
| Education | 0.000 | -0.003 | -0.001 | -0.001 | -0.002 | -0.001 |
| Oversea remittance | -0.005 | 0.054 | 0.037 | 0.036 | 0.032 | 0.037 |
| Acquaintance ratio | 0.000 | -0.001 | 0.004 | 0.004 | 0.004 | 0.004 |
| Farm/livestock | -0.004 | -0.046 | 0.020 | 0.023 | 0.020 | 0.020 |
| Fishery | -0.197 * | 0.031 | -0.066 | -0.068 | -0.062 | -0.066 |
| Trade | 0.104 | 0.145 *** | 0.129 ** | 0.129 ** | 0.129 ** | 0.129 ** |
| Business | 0.209 *** | -0.087 * | -0.001 | -0.005 | -0.004 | -0.001 |
| Government officer | -0.074 | 0.025 | -0.001 | -0.001 | -0.006 | -0.001 |
| Relative income | 0.062 *** | 0.112 *** | 0.075 *** | 0.074 *** | 0.076 *** | 0.075 *** |
| Mean income | -0.004 | -0.005 * | -0.005 | -0.004 | -0.004 | -0.005 |
| Gini coefficient | -0.423 | 0.007 | -0.162 | -0.201 | -0.136 | -0.162 |
| Number of officers | 0.108 ** | 0.028 ** | 0.018 | 0.018 | 0.018 | 0.018 |
| Group M | -0.072 | 0.147 ** | -0.018 | -0.019 | -0.004 | -0.018 |
| M*Mean income | 0.007 | -0.006 * | 0.005 | 0.005 | 0.004 | 0.005 |
| Group L | -0.318 | 0.112 | -0.086 | -0.084 | -0.083 | -0.086 |
| L*Mean income | 0.018 ** | -0.002 | 0.011 *** | 0.011 *** | 0.010 *** | 0.011 *** |
| ROSCA | | -0.133 *** | -0.064 | -0.063 | -0.066 | -0.064 |
| ROSCA*Bidding | -0.011 | | 0.069 | 0.066 | 0.075 | 0.069 |
| GSS Trust | | | | 0.016 | | |
| GSS Fair | | | | | -0.023 | |
| GSS Helpful | | | | | | 0.000 |
| South | | | -0.103 ** | -0.103 ** | -0.109 ** | -0.103 ** |
| Constant | 0.222 | -0.133 | 0.205 | 0.211 | 0.207 | 0.205 |
| Observations | 490 | 420 | 910 | 910 | 910 | 910 |
| R ² | 0.25 | 0.51 | 0.29 | 0.29 | 0.29 | 0.29 |

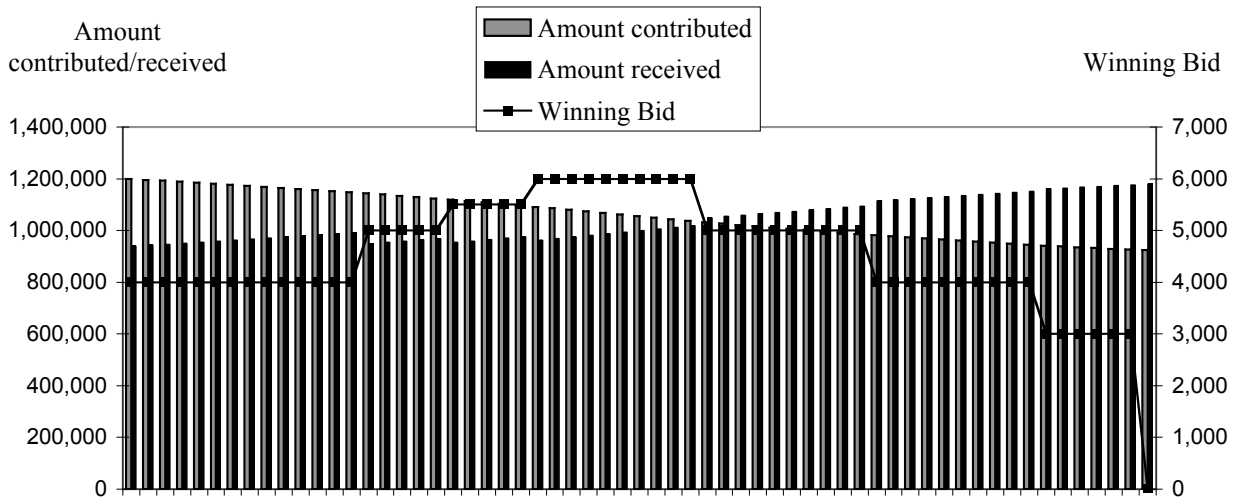
Note: * Significant at the 10% level. ** Significant at the 5% level. *** Significant at the 1% level. We conducted robust regressions, and adjusted standard errors for correlations within individuals.

Figure 1: Amount contributed and received by ROSCA participant

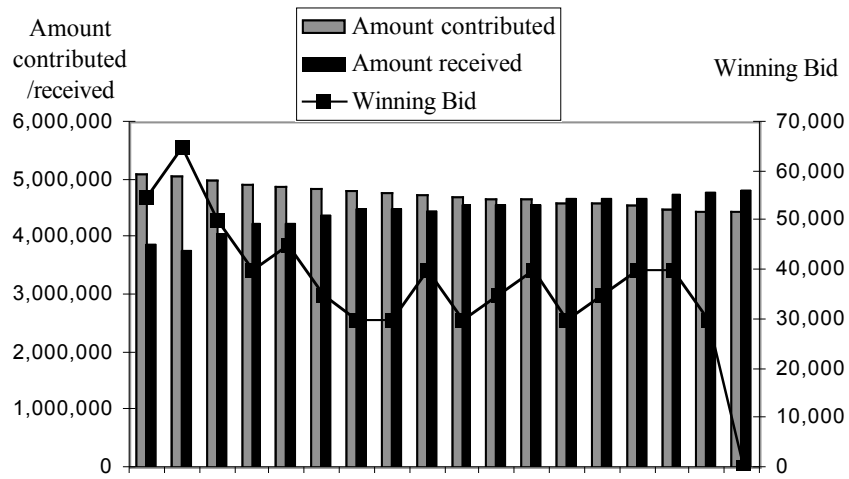
Daily bidding ROSCA (10,000dong – 91 days)



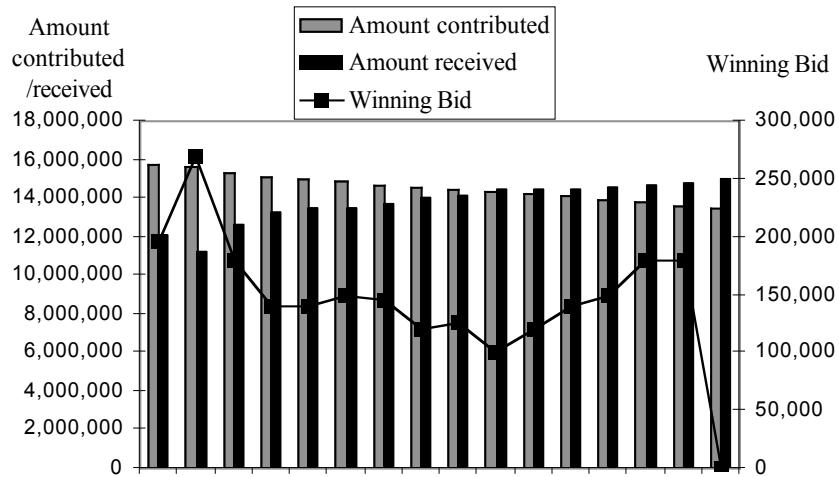
Daily bidding ROSCA (20,000dong – 61 days)



Weekly bidding ROSCA (300,000dong – 18 weeks)



Monthly bidding ROSCA (1,000,000dong – 17 months)



Monthly bidding ROSCA (2,000,000dong – 19 months)

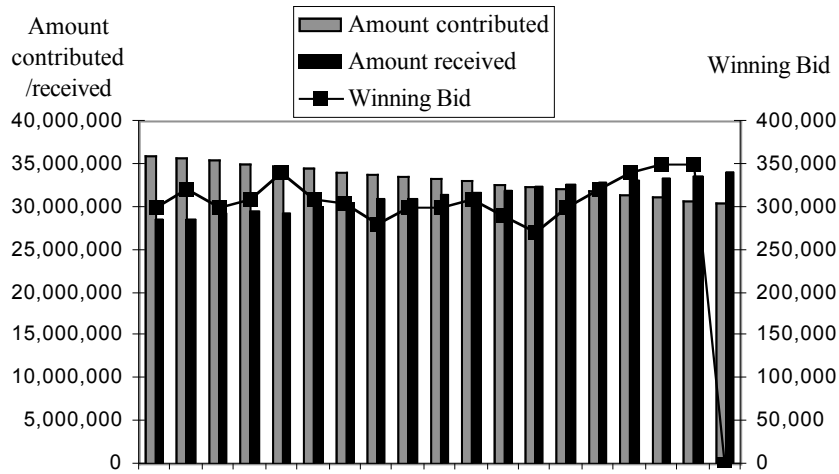
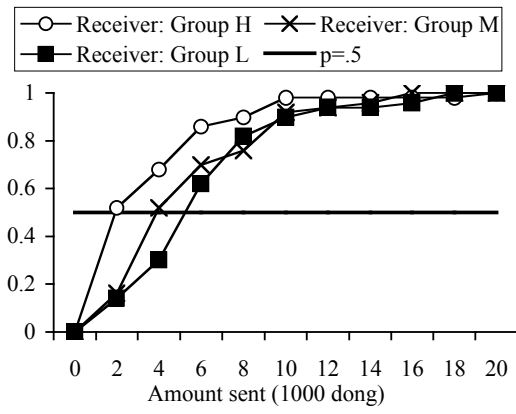


Figure 2: Cumulative distribution of amount set by Player 1 (by group of receiver)

South



North

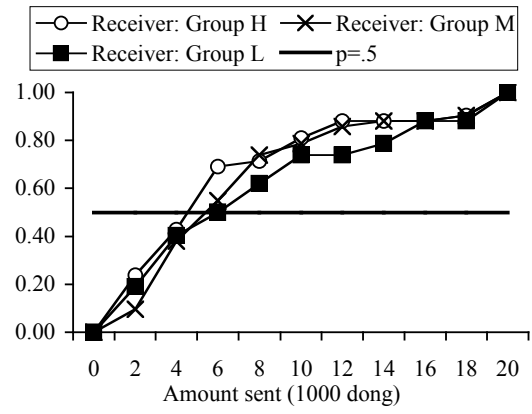
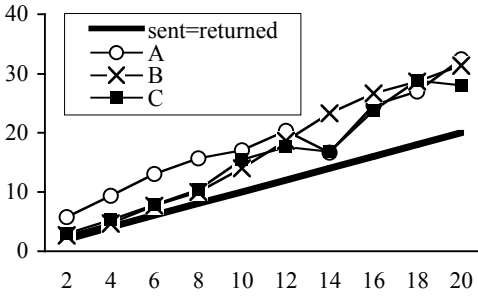


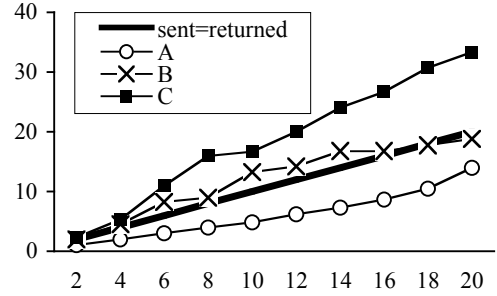
Figure 3: Amounts sent back by Player 2 (1000 dong)

Student subjects

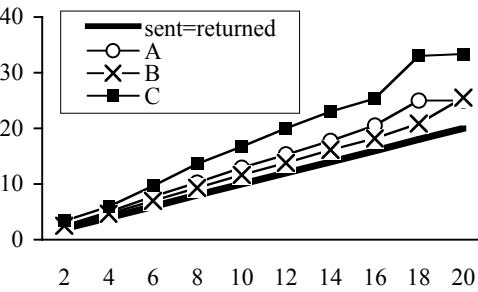
SS1



SS2

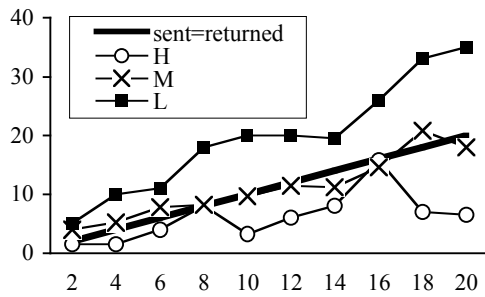


SN1

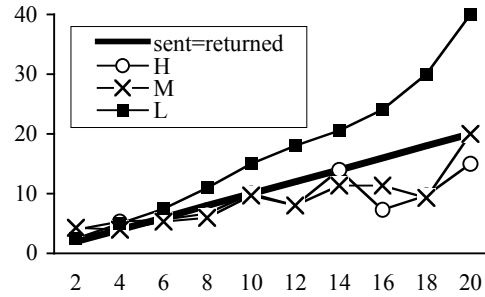


South

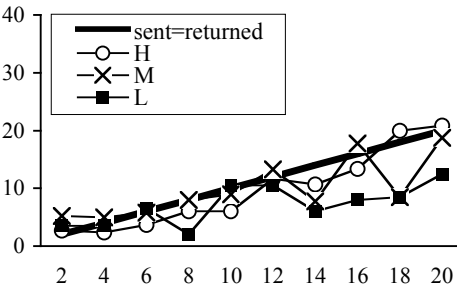
S1



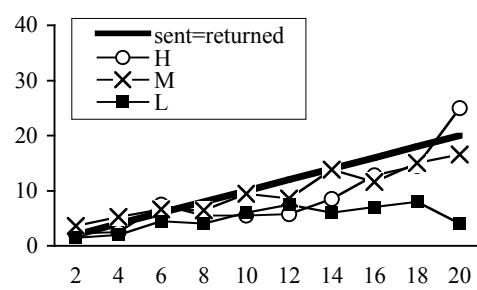
S2



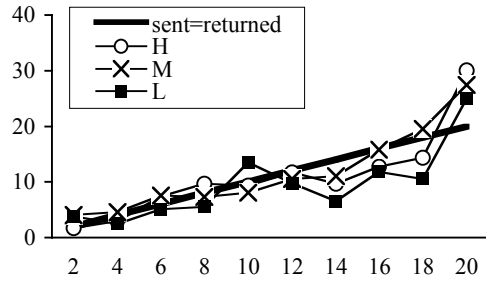
S3



S4

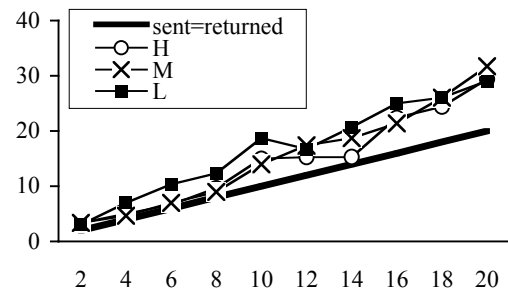


S5

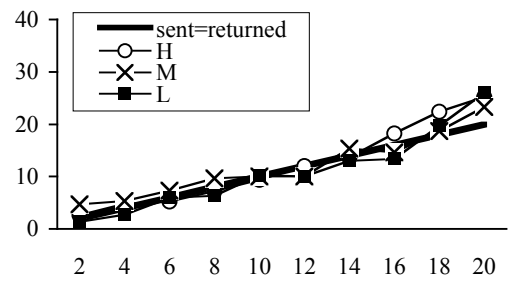


North

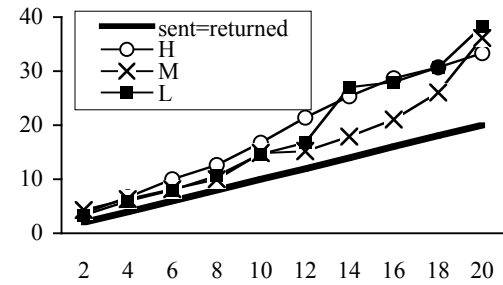
N1



N2



N3



N4

