

## A Online Appendix for “Enforcement and Compliance in an Uncertain World”

Table A.1: Comparison of Group-Level Punishment and Contribution Rates in False Positives, False Negatives, Accurate Signals, and Technology Choice (False Positive and False Negative Conditions) Treatments

Punishment Rate Given Accusatory Signal	Punishment Rate Given Exculpatory Signal	Difference in Punishment Rates	Contribution Rate
False Positives Treatment			
0.880	0.033	0.847	0.538
0.785	0.000	0.785	0.425
0.627	0.000	0.627	0.675
0.595	0.000	0.595	0.838
0.507	0.000	0.507	0.175
0.484	0.063	0.421	0.463
0.493	0.077	0.416	0.238
0.424	0.071	0.353	0.338
0.302	0.000	0.302	0.713
0.258	0.000	0.258	0.350
0.317	0.118	0.199	0.338
False Negatives Treatment			
1.000	0.000	1.000	0.763
1.000	0.000	1.000	0.613
1.000	0.016	0.984	0.650
1.000	0.043	0.957	0.775
1.000	0.063	0.937	0.700
1.000	0.067	0.933	0.625
0.950	0.017	0.933	0.563
1.000	0.092	0.908	0.900
0.714	0.000	0.714	0.863
0.606	0.000	0.606	0.400
0.548	0.429	0.119	0.413
Accurate Signals Treatment			
1.00	0.00	1.00	0.89
1.00	0.00	1.00	0.88
0.89	0.00	0.89	0.89
0.88	0.00	0.88	0.90
0.76	0.00	0.76	0.79
0.73	0.01	0.71	0.86
–	0.00	–	1.00
–	0.00	–	1.00
Technology Choice False Positives Condition			
1.000	0.000	1.000	0.825
0.939	0.000	0.939	0.738
0.730	0.000	0.730	0.775
0.652	0.000	0.652	0.238
0.635	0.000	0.635	0.363
0.619	0.059	0.560	0.400
0.419	0.000	0.419	0.688
0.435	0.091	0.344	0.275
0.526	0.250	0.276	0.138
0.538	0.500	0.038	0.025
Technology Choice Accurate Signals Condition			
1.00	0.00	1.00	0.99
1.00	0.00	1.00	0.93
1.00	0.00	1.00	0.75
0.93	0.03	0.90	0.81
1.00	0.00	1.00	0.89
1.00	0.14	0.86	0.95

Notes: Each entry is a single group observed over twenty periods. Sorted within treatment by difference in punishment rates (high to low). 2

Table A.2: Predicting the decision to contribute with historical average contributions

	(1)	(2)	(3)
	False Positives	False Negatives	Tech. Choice False Positives
<i>Wrongly punished</i> $_{i,t-1}$	-0.625 [0.271]*	-0.694 [0.412]	-0.754 [0.291]**
<i>Wrongly unpunished</i> $_{i,t-1}$	-0.548 [0.231]*	-0.933 [0.269]**	-1.047 [0.308]**
<i>Contribute</i> $_{i,t-1}$	0.814 [0.221]**	0.667 [0.230]**	1.182 [0.248]**
<i>Average total contributions in group</i> $_{i,t-1}$	0.616 [0.144]**	0.558 [0.163]**	0.911 [0.175]**
<i>One other contributor</i> $_{i,t-1}$	0.514 [0.256]*	-0.148 [0.359]	0.702 [0.307]*
<i>Two other contributors</i> $_{i,t-1}$	0.574 [0.289]*	0.031 [0.353]	0.442 [0.385]
<i>Three other contributors</i> $_{i,t-1}$	0.815 [0.391]*	0.214 [0.382]	0.7 [0.465]
Observations	836	836	760

Standard errors in brackets. \* indicates significant at 5%; \*\* significant at 1%. Two-tailed tests. Coefficients for constant and period indicators suppressed in all columns to save space.