

Execution Report

Title: Non-Standard Errors

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Jürgen Huber, Magnus Johannesson, Michael Kirchler,
Sebastian Neusüss, Michael Razen, Utz Weitzel et al.

Full reference: Menkveld Albert J., Dreber Anna, Holzmeister Felix, Huber Jürgen, Magnus Johannesson, Kirchler Michael, Neusüss Sebastian, Razen Michael, Weitzel Utz, et al. "Non-Standard Errors", SSRN Working paper, November 23, 2021.

The structure and contents of this execution report provided by **cascad** for the certification are similar to those recommended by the AEA Data Editor.

1. DATA DESCRIPTION

This study relies on data collected from 164 teams that had to test six hypotheses on the same sample. It uses those their results to measure and explain the size of non-standard errors. For a thorough description of the data collected, please refer to section 2 of the paper.

2. CODE DESCRIPTION

For the purpose of this certification, we aimed to check the results displayed in Tables 1-5, OA.1-OA.13 and in Figures 1-5.

The replication materials are divided into four self-explanatory subfolders: "code", "input", "output" and "temp". A single Python script, "execute-pre-analysis-plan-v30.py", generates all the results.

3. REPLICATION STEPS

The replication material was downloaded from the repository, and run using Python 3.9 on a computer with 16GB RAM, intel® Core™ i9-9900K CPU @3.60-5.00GHz, Nvidia Geforce RTX 2060, and Linux (Debian 11 distribution). We encountered no issues during the replication.

4. FINDINGS

We reproduced all figures and tables with perfect accuracy.

4.1. TABLE 1: SUMMARY STATISTICS

Original:

Panel (a): Quality of the #fincap community

	Research teams	Peer evaluators
Fraction with top econ/finance publications (see footnote 4)	0.31	0.85
Fraction including at least associate/full professor	0.52	0.88
Experience empirical-finance research (low-high, 1-10)	8.1 (1.7)	8.4 (1.8)
Experience market-liquidity research (low-high, 1-10)	6.9 (2.4)	7.8 (2.3)
Relevant experience (average of the above two items)	7.5 (1.3)	8.1 (1.7)
Fraction with "big data" experience (>#fincap sample)	0.65	0.88
Fraction teams consisting of two members (maximum team size)	0.79	
Number of observations	164	34

Panel (b): Quality of the analysis of research teams

	Research teams
Reproducibility score according to Cascad (low-high, 0-100)	64.5 (43.7)
Paper quality as judged by peer evaluators (low-high, 0-10)	6.2 (2.0)

Panel (c): Dispersion across teams of estimates, SEs, and t-values

Estimate effect size Mean Mean (wins.)a Mean (trim)b SD SD (wins.)a SD (trim)b Min Q(0.10) Q(0.25) Median Q(0.75) Q(0.90) Max Standard error	446.3 -7.4 -6.2 5,817.5 20.6 16.6 -171.1 -23.7 -6.2 -1.1 0.5 3.7 74,491.1	-1,093.4 9.0 5.4 14,537.2 49.5 29.0 -186,074.5 -6.9 -3.6 -0.0 3.9 21.5 4,124.0 1,195.3	-3.5 -2.6 -2.7 9.4 1.8 1.5 -117.5 -3.8 -3.5 -3.3 -2.4 -0.1 8.7	-38,276.1 -2.1 0.6 490,024.2 46.8 24.9 -6,275,383.0 -6.7 -2.1 0.1 3.8 20.4 870.2	-3.5 -0.3 -0.2 37.6 1.1 0.9 -452.9 -1.6 -0.6 -0.0	-87.1 -27.6 -22.1 728.5 187.8 128.7 -8,254.5 -192.1 -18.2 0.0 3.2 56.5
Mean (wins.) ^a Mean (trim) ^b SD SD (wins.) ^a SD (trim) ^b Min Q(0.10) Q(0.25) Median Q(0.75) Q(0.90) Max	-7.4 -6.2 5,817.5 20.6 16.6 -171.1 -23.7 -6.2 -1.1 0.5 3.7 74,491.1	9.0 5.4 14,537.2 49.5 29.0 -186,074.5 -6.9 -3.6 -0.0 3.9 21.5 4,124.0	-2.6 -2.7 9.4 1.8 1.5 -117.5 -3.8 -3.5 -3.3 -2.4 -0.1	-2.1 0.6 490,024.2 46.8 24.9 -6,275,383.0 -6.7 -2.1 0.1 3.8 20.4	-0.3 -0.2 37.6 1.1 0.9 -452.9 -1.6 -0.6 -0.0 0.2 1.0	-27.6 -22.1 728.5 187.8 128.7 -8,254.5 -192.1 -18.2 0.0 3.2 56.5
Mean (trim) ^b SD SD (wins.) ^a SD (trim) ^b Min Q(0.10) Q(0.25) Median Q(0.75) Q(0.90) Max	-6.2 5,817.5 20.6 16.6 -171.1 -23.7 -6.2 -1.1 0.5 3.7 74,491.1 468.7 13.2	5.4 14,537.2 49.5 29.0 -186,074.5 -6.9 -3.6 -0.0 3.9 21.5 4,124.0	-2.7 9.4 1.8 1.5 -117.5 -3.8 -3.5 -3.3 -2.4 -0.1	0.6 490,024.2 46.8 24.9 -6,275,383.0 -6.7 -2.1 0.1 3.8 20.4	-0.2 37.6 1.1 0.9 -452.9 -1.6 -0.6 -0.0 0.2 1.0	-22.1 728.5 187.8 128.7 -8,254.5 -192.1 -18.2 0.0 3.2 56.5
Mean (trim) ^b SD SD (wins.) ^a SD (trim) ^b Min Q(0.10) Q(0.25) Median Q(0.75) Q(0.90) Max	5,817.5 20.6 16.6 -171.1 -23.7 -6.2 -1.1 0.5 3.7 74,491.1 468.7 13.2	14,537.2 49.5 29.0 -186,074.5 -6.9 -3.6 -0.0 3.9 21.5 4,124.0	9.4 1.8 1.5 -117.5 -3.8 -3.5 -3.3 -2.4 -0.1	490,024.2 46.8 24.9 -6,275,383.0 -6.7 -2.1 0.1 3.8 20.4	37.6 1.1 0.9 -452.9 -1.6 -0.6 -0.0 0.2 1.0	728.5 187.8 128.7 -8,254.5 -192.1 -18.2 0.0 3.2 56.5
SD (wins.) ^a SD (trim) ^b Min Q(0.10) Q(0.25) Median Q(0.75) Q(0.90) Max	20.6 16.6 -171.1 -23.7 -6.2 -1.1 0.5 3.7 74,491.1 468.7 13.2	49.5 29.0 -186,074.5 -6.9 -3.6 -0.0 3.9 21.5 4,124.0	1.8 1.5 -117.5 -3.8 -3.5 -3.3 -2.4 -0.1	46.8 24.9 -6,275,383.0 -6.7 -2.1 0.1 3.8 20.4	1.1 0.9 -452.9 -1.6 -0.6 -0.0 0.2 1.0	187.8 128.7 -8,254.5 -192.1 -18.2 0.0 3.2 56.5
SD (trim) ^b Min Q(0.10) Q(0.25) Median Q(0.75) Q(0.90) Max	16.6 -171.1 -23.7 -6.2 -1.1 0.5 3.7 74,491.1 468.7 13.2	29.0 -186,074.5 -6.9 -3.6 -0.0 3.9 21.5 4,124.0	1.5 -117.5 -3.8 -3.5 -3.3 -2.4 -0.1	24.9 -6,275,383.0 -6.7 -2.1 0.1 3.8 20.4	0.9 -452.9 -1.6 -0.6 -0.0 0.2 1.0	128.7 -8,254.5 -192.1 -18.2 0.0 3.2 56.5
Min Q(0.10) Q(0.25) Median Q(0.75) Q(0.90) Max	-171.1 -23.7 -6.2 -1.1 0.5 3.7 74,491.1 468.7 13.2	-186,074.5 -6.9 -3.6 -0.0 3.9 21.5 4,124.0	-117.5 -3.8 -3.5 -3.3 -2.4 -0.1	-6,275,383.0 -6.7 -2.1 0.1 3.8 20.4	-452.9 -1.6 -0.6 -0.0 0.2 1.0	-8,254.5 -192.1 -18.2 0.0 3.2 56.5
Q(0.10) Q(0.25) Median Q(0.75) Q(0.90) Max	-23.7 -6.2 -1.1 0.5 3.7 74,491.1 468.7 13.2	-6.9 -3.6 -0.0 3.9 21.5 4,124.0	-3.8 -3.5 -3.3 -2.4 -0.1	-6.7 -2.1 0.1 3.8 20.4	-1.6 -0.6 -0.0 0.2 1.0	-192.1 -18.2 0.0 3.2 56.5
Q(0.25) Median Q(0.75) Q(0.90) Max	-6.2 -1.1 0.5 3.7 74,491.1 468.7 13.2	-3.6 -0.0 3.9 21.5 4,124.0	-3.5 -3.3 -2.4 -0.1	-2.1 0.1 3.8 20.4	-0.6 -0.0 0.2 1.0	-18.2 0.0 3.2 56.5
Median Q(0.75) Q(0.90) Max	-1.1 0.5 3.7 74,491.1 468.7 13.2	-0.0 3.9 21.5 4,124.0	-3.3 -2.4 -0.1	0.1 3.8 20.4	-0.0 0.2 1.0	0.0 3.2 56.5
Q(0.75) Q(0.90) Max	0.5 3.7 74,491.1 468.7 13.2	3.9 21.5 4,124.0	-2.4 -0.1	3.8 20.4	0.2 1.0	3.2 56.5
Q(0.90) Max	3.7 74,491.1 468.7 13.2	21.5 4,124.0	-0.1	20.4	1.0	56.5
Q(0.90) Max	3.7 74,491.1 468.7 13.2	4,124.0			1.0	56.5
Max	468.7 13.2		8.7	870.2	20.5	
Standard error	468.7 13.2			W 1 W 1	69.5	1,119.0
	13.2	1,195.3				
Mean	13.2		3.7	38,302.0	6.2	148.2
Mean (wins.)a	40.0	23.5	1.4	26.9	1.7	104.8
Mean (trim)b	10.8	16.4	1.3	18.8	1.4	80.7
SD	5,810.6	14,711.9	29.5	489,929.5	40.1	526.0
SD (wins.) ^a	27.0	60.8	1.6	75.3	2.6	237.5
SD (trim) ^b	21.2	38.8	1.3	53.1	1.7	174.1
Min	0.0	0.0	0.0	0.0	0.0	0.0
Q(0.10)	0.1	0.2	0.1	0.2	0.1	0.0
Q(0.25)	0.5	1.1	0.3	1.2	0.2	0.7
Median	2.5	5.0	1.4	4.4	1.0	9.7
Q(0.75)	9.3	13.9	2.0	14.3	2.4	77.1
Q(0.90)	44.7	39.6	2.2	31.2	3.1	235.4
Max	74,425.5	188,404.1	378.8	6,274,203.0	463.7	4,836.2
t-value						
Mean	-3.6	35.3	-47.1	24.3	-5.7	-2.0
Mean (wins.)a	-1.4	-1.3	-13.3	-0.4	0.2	-0.4
Mean (trim)b	-1.1	-1.0	-11.6	-0.3	0.0	-0.2
SD	28.4	541.2	269.9	406.0	60.1	21.2
SD (wins.)a	5.2	4.1	25.4	3.0	4.2	2.0
SD (trim)b	3.4	3.3	22.0	2.4	2.6	1.4
Min	-322.3	-764.6	-2,770.6	-852.6	-631.6	-191.7
Q(0.10)	-4.7	-5.7	-37.4	-3.5	-2.3	-1.7
Q(0.25)	-1.9	-1.5	-11.5	-1.0	-0.6	-1.0
Median	-0.7	-0.1	-1.8	0.1	0.0	0.0
Q(0.75)	0.3	0.8	-1.6	1.0	0.8	0.7
Q(0.90)	1.7	1.5	-0.3	1.6	1.7	1.2
Max	51.6	6,880.5	29.5	5,119.5	89.6	100.6
More t-value statistics		-,		_,		
t <-1.96	23.8%	22.6%	45.7%	17.7%	11.0%	9.8%
t>1.96	8.5%	6.1%	3.7%	9.1%	9.8%	3.0%
t > 1.96	32.3%	28.7%	49.4%	26.8%	20.7%	12.8%
Relative size NSE (wins.) ^c NSE/SE ratio	1.6	2.1	1.3	1.7	0.6	1.8

a: Winsorized at 2.5%-97.5%. b: Trimmed at 2.5%-97.5%. c: The non-standard error of effect size is compared to the mean standard error of effect size for the winsorized sample.

Panel (a): Quality of the #fincap community

	Research teams	Peer evaluators
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Relevant experience (average of the above two items)	7.5 (1.3)	8.1 (1.7)
Fraction with "big data" experience (>#fincap sample)	0.65	0.88
Fraction teams consisting of two members (maximum team size)	0.79	
Number of observations	164	34

Panel (b): Quality of the analysis of research teams

	Research teams
Reproducibility score according to Cascad (low-high, 0-100)	64.5 (43.7)
Paper quality as judged by peer evaluators (low-high, 0-10)	6.2 (2.0)

Panel (c): Dispersion across teams of estimates, SEs, and t-values

	RT-H1 Efficiency	RT-H2 RSpread	RT-H3 Client Volume	RT-H4 Client RSpread	RT-H5 Client MOrders	RT-H6 Client GTR
Estimate effect size						
Mean	446.3	-1,093.4	-3.5	-38,276.1	-3.5	-87.1
Mean (wins.)a	-7.4	9.0	-2.6	-2.1	-0.3	-27.6
Mean (trim)b	-6.2	5.4	-2.7	0.6	-0.2	-22.1
SD	5,817.5	14,537.2	9.4	490,024.2	37.6	728.5
SD (wins.)a	20.6	49.5	1.8	46.8	1.1	187.8
SD (trim)b	16.6	29.0	1.5	24.9	0.9	128.7
Min	-171.1	-186,074.5	-117.5	-6,275,383.0	-452.9	-8,254.5
Q(0.10)	-23.7	-6.9	-3.8	-6.7	-1.6	-192.1
Q(0.25)	-6.2	-3.6	-3.5	-2.1	-0.6	-18.2
Median	-1.1	-0.0	-3.3	0.1	-0.0	0.0
Q(0.75)	0.5	3.9	-2.4	3.8	0.2	3.2
Q(0.90)	3.7	21.5	-0.1	20.4	1.0	56.5
Max	74,491.1	4,124.0	8.7	870.2	69.5	1,119.0
Standard error	,	.,				.,
Mean	468.7	1,195.3	3.7	38,302.0	6.2	148.2
Mean (wins.)a	13.2	23.5	1.4	26.9	1.7	104.8
Mean (trim)b	10.8	16.4	1.3	18.8	1.4	80.7
SD	5,810.6	14,711.9	29.5	489,929.5	40.1	526.0
SD (wins.) ^a	27.0	60.8	1.6	75.3	2.6	237.5
SD (trim) ^b	21.2	38.8	1.3	53.1	1.7	174.1
Min	0.0	0.0	0.0	0.0	0.0	0.0
Q(0.10)	0.1	0.2	0.1	0.2	0.1	0.0
Q(0.25)	0.5	1.1	0.3	1.2	0.2	0.7
Median	2.5	5.0	1.4	4.4	1.0	9.7
Q(0.75)	9.3	13.9	2.0	14.3	2.4	77.1
Q(0.90)	44.7	39.6	2.2	31.2	3.1	235.4
Max	74,425.5	188,404.1	378.8	6,274,203.0	463.7	4,836.2
t-value	74,420.0	100,404.1	070.0	0,274,200.0	400.7	4,000.2
Mean	-3.6	35.3	-47.1	24.3	-5.7	-2.0
Mean (wins.)a	-1.4	-1.3	-13.3	-0.4	0.2	-0.4
Mean (trim)b	-1.1	-1.0	-11.6	-0.3	0.0	-0.2
SD	28.4	541.2	269.9	406.0	60.1	21.2
SD (wins.)a	5.2	4.1	25.4	3.0	4.2	2.0
SD (trim) ^b	3.4	3.3	22.0	2.4	2.6	1.4
Min	-322.3	-764.6	-2,770.6	-852.6	-631.6	-191.7
Q(0.10)	-322.3	-764.6	-2,770.6	-3.5	-031.0	-191.7
Q(0.10) Q(0.25)		-1.5	-11.5	-1.0	-0.6	-1.0
Median	-1.9 -0.7	-0.1	-11.5	0.1	0.0	0.0
Q(0.75)	0.3	0.8	-1.6	1.0	0.8	0.7
Q(0.90) Max	1.7 51.6	1.5 6,880.5	-0.3 29.5	1.6 5,119.5	1.7 89.6	1.2 100.6
More t-value statistics	51.0	0,000.5	29.5	5,119.5	09.0	100.6
	22 00/	22.6%	45.7%	17.7%	11.0%	9.8%
t <-1.96	23.8%					
t > 1.96	8.5%	6.1%	3.7%	9.1%	9.8%	3.0%
t >1.96	32.3%	28.7%	49.4%	26.8%	20.7%	12.8%
Relative size NSE (wins.) ^c NSE/SE ratio	1.6	2.1	1.3	1.7	0.6	1.8

a: Winsorized at 2.5%-97.5%. b: Trimmed at 2.5%-97.5%. c: The non-standard error of effect size is compared to the mean standard error of effect size for the winsorized sample.

Panel (a): Correlation team quality measures

				•	
	Publications	Experience	Big Data	Position	#Members
Publications Experience Big Data Position		0.34	0.10 -0.18	0.54 0.25 0.14	0.30 0.12 0.14 0.16

Panel (b): Fraction of variance explained

	PC1	PC2	PC3	PC4	PC5
Variance explained	38.3%	23.6%	17.1%	12.4%	8.6%

Panel (c): Loading of principal components on variables

	Publications	Experience	Big Data	Position	#Members
PC1	0.61	0.40	0.13	0.55	0.37
PC2	-0.01	-0.55	0.79	0.05	0.26
PC3	-0.10	0.06	-0.21	-0.46	0.86
PC4	-0.20	0.71	0.56	-0.35	-0.12
PC5	-0.76	0.14	-0.02	0.60	0.22

Panel (a): Correlation team quality measures

	Publications	Experience	Big Data	Position	#Members
Publications		0.34	0.10	0.54	0.30
Experience			-0.18	0.25	0.12
Big Data				0.14	0.14
Position					0.16

Panel (b): Fraction of variance explained

	PC1	PC2	PC3	PC4	PC5
Variance explained	38.3%	23.6%	17.1%	12.4%	8.6%

Panel (c): Loading of principal components on variables

	Publications	Experience	Big Data	Position	#Members
PC1	0.61	0.40	0.13	0.55	0.37
PC2	-0.01	-0.55	0.79	0.05	0.26
PC3	-0.10	0.06	-0.21	-0.46	0.86
PC4	-0.20	0.71	0.56	-0.35	-0.12
PC5	-0.76	0.14	-0.02	0.60	0.22

Panel (a): Estimates

	Raw Winsorized		Trimmed		
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	0.01 (0.06)	-0.13 (0.07)	-0.16* (0.08)	-0.12 (0.06)	-0.12 (0.08)
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.24** (0.08)	-0.13 (0.09)	-0.08 (0.08)
Average rating (standardized)	-0.12 (0.07)	-0.14 (0.10)	-0.18 (0.09)	-0.17 (0.11)	-0.17 (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	-0.00 (0.08)	-0.01 (0.09)	0.00 (0.11)	-0.05 (0.09)	0.05 (0.10)
Reproducibility score (standardized)	-0.12 (0.09)	-0.18 (0.09)	-0.23* (0.11)	-0.21* (0.08)	-0.09 (0.10)
Average rating (standardized)	-0.15 (0.12)	-0.21 (0.13)	-0.09 (0.12)	-0.01 (0.10)	0.02 (0.11)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

	Raw	Winsorized		Trim	med
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	0.01 (0.06)	-0.13 (0.07)	-0.16* (0.08)	-0.12 (0.06)	-0.12 (0.08)
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.24** (0.08)	-0.13 (0.09)	-0.08 (0.08)
Average rating (standardized)	-0.12 (0.07)	-0.14 (0.10)	-0.18 (0.09)	-0.17 (0.11)	-0.17 (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Wins	sorized	Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	-0.00 (0.08)	-0.01 (0.09)	0.00 (0.11)	-0.05 (0.09)	0.05 (0.10)
Reproducibility score (standardized)	-0.12 (0.09)	-0.18 (0.09)	-0.23* (0.11)	-0.21* (0.08)	-0.09 (0.10)
Average rating (standardized)	-0.15 (0.12)	-0.21 (0.13)	-0.09 (0.12)	-0.01 (0.10)	0.02 (0.11)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

	Raw	Winso	orized	Trimn	ned
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Dummy Stage 2 - Dummy Stage 1	-0.11* (0.05)	-0.24* (0.09)	-0.29* (0.11)	-0.30** (0.10)	-0.21* (0.11)
Dummy Stage 3 - Dummy Stage 2	0.04 (0.03)	-0.26** (0.07)	-0.40** (0.09)	-0.21* (0.09)	-0.40** (0.09)
Dummy Stage 4 - Dummy Stage 3	-0.10** (0.03)	-0.26** (0.05)	-0.38** (0.06)	-0.25** (0.05)	-0.39** (0.06)
Dummy Stage 4 - Dummy Stage 1	-0.17* (0.06)	-0.75** (0.10)	-1.07** (0.12)	-0.76** (0.10)	-1.00** (0.12)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.96	0.58	0.51	0.54	0.50
#Observations	3,936	3,936	3,936	3,888	3,744

Panel (b): t-values

	· /				
	Raw	Winso	orized	Trimn	ned
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Dummy Stage 2 - Dummy Stage 1	-0.01 (0.07)	0.04 (0.09)	0.28** (0.09)	0.10 (0.08)	0.24* (0.08)
Dummy Stage 3 - Dummy Stage 2	-0.20** (0.06)	-0.23* (0.09)	-0.08 (0.08)	-0.14 (0.09)	0.14 (0.07)
Dummy Stage 4 - Dummy Stage 3	-0.06 (0.03)	-0.32** (0.05)	-0.61** (0.08)	-0.43** (0.07)	-0.73** (0.09)
Dummy Stage 4 - Dummy Stage 1	-0.26** (0.09)	-0.51** (0.11)	-0.41** (0.12)	-0.46** (0.11)	-0.36** (0.12)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ² #Observations	0.76	0.57	0.42	0.47	0.39
#ODServations	3,936	3,936	3,936	3,888	3,744

Panel (a): Estimates

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Dummy Stage 2 - Dummy Stage 1	-0.11* (0.05)	-0.24* (0.09)	-0.29* (0.11)	-0.30** (0.10)	-0.21* (0.11)
Dummy Stage 3 - Dummy Stage 2	0.04 (0.03)	-0.26** (0.07)	-0.40** (0.09)	-0.21* (0.09)	-0.40** (0.09)
Dummy Stage 4 - Dummy Stage 3	-0.10** (0.03)	-0.26** (0.05)	-0.38** (0.06)	-0.25** (0.05)	-0.39** (0.06)
Dummy Stage 4 - Dummy Stage 1	-0.17* (0.06)	-0.75** (0.10)	-1.07** (0.12)	-0.76** (0.10)	-1.00** (0.12)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.96	0.58	0.51	0.54	0.50
#Observations	3,936	3,936	3,936	3,888	3,744

Panel (b): t-values

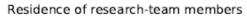
	Raw	Winsorized		Trimn	ned
		1% to	2.5% to	1% to	2.5% to
		99%	97.5%	99%	97.5%
Dummy Stage 2 - Dummy Stage 1	-0.01 (0.07)	0.04 (0.09)	0.28** (0.09)	0.10 (0.08)	0.24* (0.08)
Dummy Stage 3 - Dummy Stage 2	-0.20** (0.06)	-0.23* (0.09)	-0.08 (80.0)	-0.14 (0.09)	0.14 (0.07)
Dummy Stage 4 - Dummy Stage 3	-0.06 (0.03)	-0.32** (0.05)	-0.61** (0.08)	-0.43** (0.07)	-0.73** (0.09)
Dummy Stage 4 - Dummy Stage 1	-0.26** (0.09)	-0.51** (0.11)	-0.41** (0.12)	-0.46** (0.11)	-0.36** (0.12)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.76	0.57	0.42	0.47	0.39
#Observations	3,936	3,936	3,936	3,888	3,744

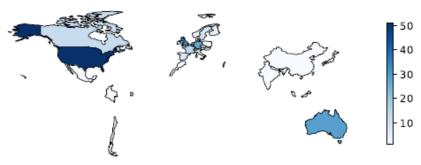
4.5. TABLE 5: DISPERSION ON RESEARCH TEAM BELIEFS

Original:

	RT-H1 Efficiency	RT-H2 RSpread	RT-H3 Client Volume	RT-H4 Client RSpread	RT-H5 Client MOrders	RT-H6 Client GTR	All
Estimate	-99.5%**	-95.4%**	-9.0%	-97.5%**	-45.3%	-83.3%**	-71.7%**
	(0.00)	(0.00)	(0.64)	(0.00)	(0.50)	(0.00)	(0.00)
t-value	15.9%	-96.0%**	-92.4%**	-97.1%**	-86.0%**	-68.2%**	-70.6%**
	(0.19)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)

	RT-H1 Efficiency	RT-H2 RSpread	RT-H3 Client Volume	RT-H4 Client RSpread	RT-H5 Client MOrders	RT-H6 Client GTR	All
Estimate	-99.5%**	-95.4%**	-9.0%	-97.5%**	-45.3%	-83.3%**	-71.7%**
	(0.00)	(0.00)	(0.64)	(0.00)	(0.50)	(0.00)	(0.00)
t-value	15.9%	-96.0%**	-92.4%**	-97.1%**	-86.0%**	-68.2%**	-70.6%**
	(0.19)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)



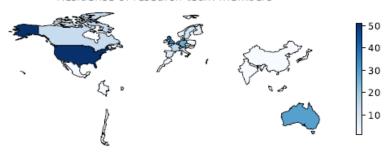


Residence of peer evaluators



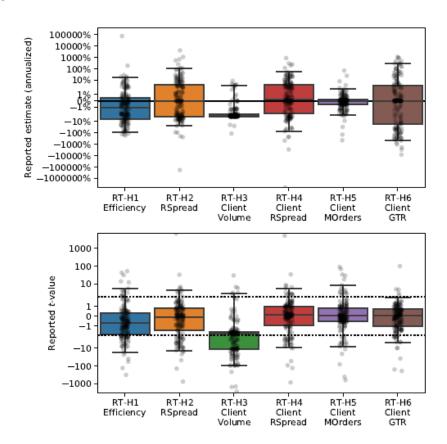
Reproduced:

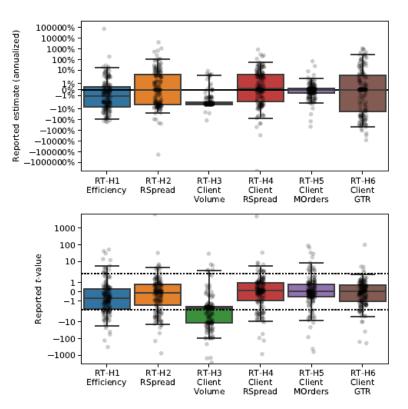
Residence of research-team members

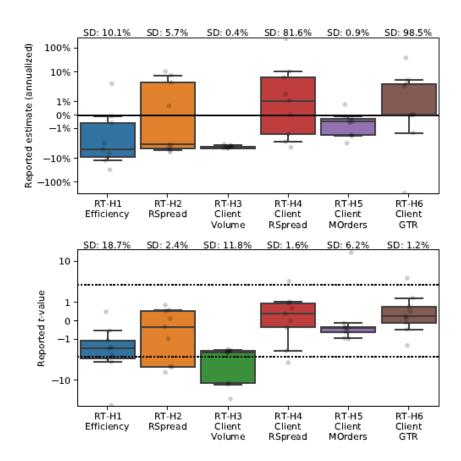


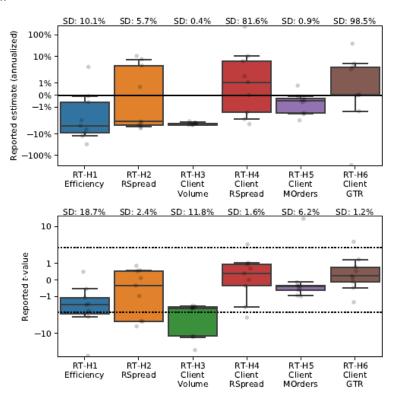
Residence of peer evaluators

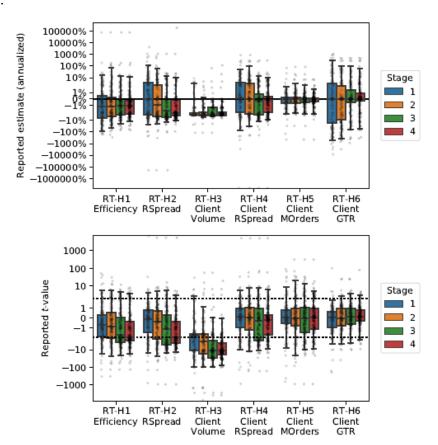


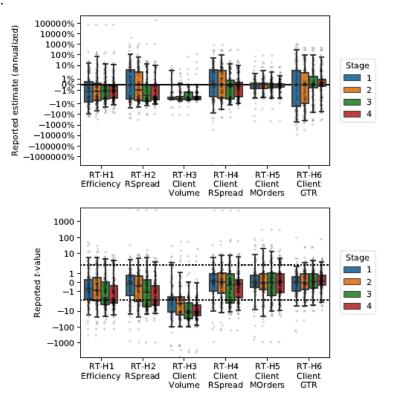


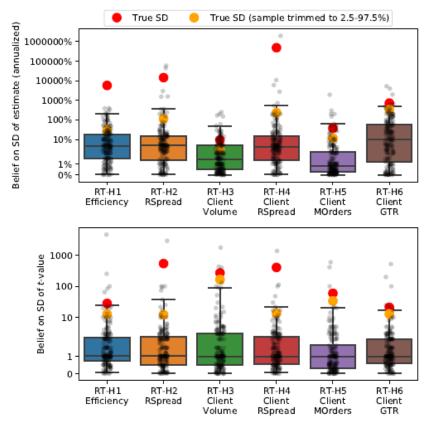


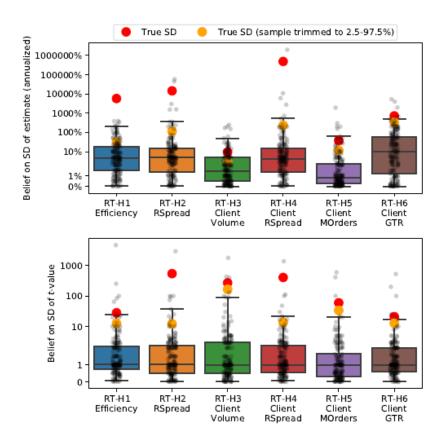












4.11. TABLE OA.1: SUMMARY STATISTICS STAGE-2 DISPERSION

Original:

	RT-H1 Efficiency	RT-H2 RSpread	RT-H3 Client Volume	RT-H4 Client RSpread	RT-H5 Client MOrders	RT-H6 Client GTR
Estimate effect size						
Mean	451.2	-1,122.2	-3.6	-38,254.7	0.4	-37.1
Mean (wins.)a	-1.0	2.3	-2.8	4.3	-0.1	-25.1
Mean (trim)b	-2.0	1.0	-2.8	2.4	-0.2	-18.3
SD	5,817.1	14,531.4	9.2	490,025.9	7.5	264.7
SD (wins.)a	22.3	17.3	1.4	23.5	1.6	97.9
SD (trim)b	13.6	11.9	1.3	14.9	1.1	75.6
Min	-291.3	-186,074.5	-117.5	-6,275,383.0	-30.8	-3,024.9
Q(0.10)	-13.1	-7.7	-3.8	-5.8	-1.8	-83.4
Q(0.25)	-4.4	-4.7	-3.7	-2.7	-0.6	-9.4
Median	-1.2	-0.9	-3.3	0.0	-0.0	-0.0
Q(0.75)	0.3	2.5	-2.1	3.5	0.2	2.1
Q(0.90)	3.4	12.6	-0.3	14.2	1.1	33.7
Max	74,491.1	1,098.0	4.8	870.2	86.1	486.5
Standard error						
Mean	462.2	1,166.4	3.5	38,279.4	2.0	86.3
Mean (wins.)a	8.3	16.2	1.1	12.9	1.1	60.6
Mean (trim)b	7.0	11.1	1.0	9.8	1.0	43.6
SD	5,811.0	14,710.6	29.6	489,931.2	8.0	308.4
SD (wins.)a	16.4	44.2	1.6	30.7	1.4	151.7
SD (trim) ^b	13.9	29.1	1.2	22.8	1.2	101.1
Min	0.0	0.0	0.0	0.0	0.0	0.0
Q(0.10)	0.1	0.0	0.0	0.0	0.0	0.0
Q(0.25)	0.4	0.5	0.1	0.7	0.1	0.3
Median	1.4	3.3	0.4	3.0	0.5	4.9
Q(0.75)	5.8	8.4	1.9	9.0	1.4	45.5
Q(0.90)	29.0	28.5	2.0	24.7	2.8	160.7
Max	74,425.5	188,404.1	378.8	6,274,203.0	86.1	2,740.2
t-value	•	•				,
Mean	-4.8	24.9	-99.4	28.8	-3.5	-0.1
Mean (wins.)a	-2.6	-2.5	-53.5	-0.6	0.2	-0.2
Mean (trim)b	-1.8	-1.8	-22.3	-0.5	0.0	-0.1
SD	28.4	434.5	627.1	400.5	73.8	4.4
SD (wins.)a	8.5	7.5	227.8	3.9	7.6	1.6
SD (trim)b	5.4	5.0	107.5	3.1	5.1	1.3
Min	-322.3	-907.7	-7,208.7	-160.0	-876.2	-38.3
Q(0.10)	-7.3	-8.4	-45.4	-5.0	-3.7	-2.0
Q(0.25)	-2.3	-2.5	-17.4	-1.2	-0.8	-0.8
Median	-0.8	-0.4	-3.5	0.0	-0.1	-0.0
Q(0.75)	0.5	0.7	-1.7	1.0	1.0	1.0
Q(0.90)	2.3	1.6	-0.4	2.5	3.1	1.4
Max	30.8	5,479.5	56.1	5,120.8	318.8	25.2
More t-value statistics		_,		-,		
t <-1.96	30.5%	29.3%	57.3%	19.5%	14.0%	10.4%
t>1.96	13.4%	7.3%	3.0%	11.6%	15.2%	4.9%
t > 1.96	43.9%	36.6%	60.4%	31.1%	29.3%	15.2%
Relative size NSE (wins.)c		30.070	23.170	0,0	_3.0.0	
NSE/SE ratio	2.7	1.1	1.3	1.8	1.5	1.6

	RT-H1 Efficiency	RT-H2 RSpread	RT-H3 Client Volume	RT-H4 Client RSpread	RT-H5 Client MOrders	RT-H6 Client GTR
Estimate effect size						
Mean	451.2	-1,122.2	-3.6	-38,254.7	0.4	-37.1
Mean (wins.)a	-1.0	2.3	-2.8	4.3	-0.1	-25.1
Mean (trim)b	-2.0	1.0	-2.8	2.4	-0.2	-18.3
SD	5,817.1	14,531.4	9.2	490,025.9	7.5	264.7
SD (wins.)a	22.3	17.3	1.4	23.5	1.6	97.9
SD (trim)b	13.6	11.9	1.3	14.9	1.1	75.6
Min	-291.3	-186,074.5	-117.5	-6,275,383.0	-30.8	-3,024.9
Q(0.10)	-13.1	-7.7	-3.8	-5.8	-1.8	-83.4
Q(0.25)	-4.4	-4.7	-3.7	-2.7	-0.6	-9.4
Median	-1.2	-0.9	-3.3	0.0	-0.0	-0.0
Q(0.75)	0.3	2.5	-2.1	3.5	0.2	2.1
Q(0.90)	3.4	12.6	-0.3	14.2	1.1	33.7
Max	74,491.1	1,098.0	4.8	870.2	86.1	486.5
Standard error	,	,				
Mean	462.2	1,166.4	3.5	38,279.4	2.0	86.3
Mean (wins.)a	8.3	16.2	1.1	12.9	1.1	60.6
Mean (trim)b	7.0	11.1	1.0	9.8	1.0	43.6
SD	5,811.0	14,710.6	29.6	489,931.2	8.0	308.4
SD (wins.) ^a	16.4	44.2	1.6	30.7	1.4	151.7
SD (trim) ^b	13.9	29.1	1.2	22.8	1.2	101.1
Min	0.0	0.0	0.0	0.0	0.0	0.0
Q(0.10)	0.1	0.0	0.0	0.0	0.0	0.0
Q(0.25)	0.4	0.5	0.1	0.7	0.1	0.3
Median	1.4	3.3	0.4	3.0	0.5	4.9
Q(0.75)	5.8	8.4	1.9	9.0	1.4	45.5
Q(0.90)	29.0	28.5	2.0	24.7	2.8	160.7
Max	74,425.5	188,404.1	378.8	6,274,203.0	86.1	2,740.2
t-value	74,420.0	100,404.1	070.0	0,274,200.0	00.1	2,7 40.2
Mean	-4.8	24.9	-99.4	28.8	-3.5	-0.1
Mean (wins.)a	-2.6	-2.5	-53.5	-0.6	0.2	-0.2
Mean (trim)b	-1.8	-1.8	-22.3	-0.5	0.0	-0.1
SD	28.4	434.5	627.1	400.5	73.8	4.4
SD (wins.)a	8.5	7.5	227.8	3.9	7.6	1.6
SD (trim) ^b	5.4	5.0	107.5	3.1	5.1	1.3
Min	-322.3	-907.7	-7,208.7	-160.0	-876.2	-38.3
Q(0.10)	-7.3	-8.4	-45.4	-5.0	-3.7	-2.0
Q(0.10)	-2.3	-2.5	-17.4	-1.2	-0.8	-0.8
Median	-0.8	-0.4	-3.5	0.0	-0.0	-0.0
Q(0.75)	0.5	0.7	-1.7	1.0	1.0	1.0
Q(0.75) Q(0.90)	2.3	1.6	-0.4	2.5	3.1	1.4
Max	30.8		56.1			
More t-value statistics	30.0	5,479.5	30.1	5,120.8	318.8	25.2
	20 50/	20.29/	57.3%	10.59/	1.4.00/	10.4%
t <-1.96	30.5%	29.3%		19.5%	14.0%	
t>1.96	13.4%	7.3%	3.0%	11.6%	15.2%	4.9%
t > 1.96 Relative size NSE (wins.)c	43.9%	36.6%	60.4%	31.1%	29.3%	15.2%
NSE/SE ratio	2.7	1.1	1.3	1.8	1.5	1.6

4.12. TABLE OA.2: SUMMARY STATISTICS STAGE-3 DISPERSION

Original:

	RT-H1 Efficiency	RT-H2 RSpread	RT-H3 Client Volume	RT-H4 Client RSpread	RT-H5 Client MOrders	RT-H6 Client GTR
Estimate effect size						
Mean	453.4	-1,130.6	-3.1	-38,263.4	-2.4	-2.4
Mean (wins.) ^a	-1.8	-1.9	-2.8	-0.6	-0.2	1.3
Mean (trim)b	-1.6	-1.9	-2.8	-0.8	-0.2	0.6
SD	5,816.9	14,530.5	10.7	490,025.2	36.2	105.9
SD (wins.) ^a	6.9	7.1	1.4	5.7	1.1	26.6
SD (trim)b	4.9	5.4	1.3	4.6	0.9	19.1
Min	-70.5	-186,074.0	-117.5	-6,275,383.0	-452.9	-898.7
Q(0.10)	-6.7	-8.0	-3.9	-7.1	-1.7	-15.1
Q(0.25)	-3.2	-5.7	-3.8	-3.4	-0.6	-0.5
Median	-1.0	-1.8	-3.3	-0.3	-0.0	0.0
Q(0.75)	-0.0	0.0	-1.3	0.8	0.2	1.4
Q(0.90)	2.2	5.5	-0.4	5.3	0.9	12.8
Max	74,491.1	1,098.0	66.7	302.4	86.1	486.5
Standard error	,	,				
Mean	458.6	1,156.2	3.0	38,264.0	4.2	40.5
Mean (wins.) ^a	4.8	5.5	0.6	6.4	0.8	28.9
Mean (trim) ^b	3.4	4.0	0.5	4.0	0.6	19.8
SD	5,811.3	14,711.3	29.6	489,932.4	36.8	149.5
SD (wins.) ^a	13.2	13.8	0.8	19.3	1.6	80.2
SD (trim) ^b	9.4	9.0	0.7	10.6	1.0	53.5
Min	0.0	0.0	0.0	0.0	0.0	0.0
Q(0.10)	0.1	0.0	0.0	0.0	0.1	0.0
Q(0.25)	0.3	0.4	0.1	0.4	0.1	0.0
Median	0.6	1.1	0.2	1.2	0.3	1.6
Q(0.75)	2.1	3.8	0.7	3.4	0.7	8.0
Q(0.90)	7.9	10.0	2.0	10.1	1.9	58.5
Max	74,425.5	188,404.0	378.8	6,274,203.0	463.7	1,149.3
t-value	,	,		-,,		.,
Mean	-3.7	25.2	-56.5	29.8	-3.3	0.3
Mean (wins.)a	-2.7	-2.6	-18.1	-1.1	0.0	0.1
Mean (trim)b	-2.4	-2.5	-16.7	-1.0	-0.1	0.1
SD	12.5	434.4	363.3	400.3	73.2	3.3
SD (wins.)a	5.5	4.8	21.3	4.1	4.8	1.6
SD (trim)b	4.4	4.2	18.0	3.3	3.5	1.3
Min	-131.7	-908.3	-3,800.0	-160.0	-876.2	-10.2
Q(0.10)	-7.9	-8.8	-36.5	-5.5	-4.2	-1.6
Q(0.25)	-3.8	-5.1	-28.5	-2.9	-1.5	-0.6
Median	-1.8	-1.2	-11.1	-0.3	-0.0	0.1
Q(0.75)	0.1	0.3	-3.1	0.9	1.0	1.0
Q(0.90)	2.2	1.6	-1.4	2.5	3.5	1.6
Max	11.9	5,479.5	56.1	5,120.8	318.8	25.2
More t-value statistics		-,		-,		
t <-1.96	45.1%	44.5%	77.4%	33.5%	20.1%	7.9%
t > 1.96	11.0%	8.5%	1.8%	12.8%	15.9%	7.3%
t > 1.96	56.1%	53.0%	79.3%	46.3%	36.0%	15.2%
Relative size NSE (wins.)c						
NSE/SE ratio	1.4	1.3	2.3	0.9	1.4	0.9

	RT-H1 Efficiency	RT-H2 RSpread	RT-H3 Client Volume	RT-H4 Client RSpread	RT-H5 Client MOrders	RT-H6 Client GTR
Estimate effect size						
Mean	453.4	-1,130.6	-3.1	-38,263.4	-2.4	-2.4
Mean (wins.)a	-1.8	-1.9	-2.8	-0.6	-0.2	1.3
Mean (trim)b	-1.6	-1.9	-2.8	-0.8	-0.2	0.6
SD	5,816.9	14,530.5	10.7	490,025.2	36.2	105.9
SD (wins.)a	6.9	7.1	1.4	5.7	1.1	26.6
SD (trim)b	4.9	5.4	1.3	4.6	0.9	19.1
Min	-70.5	-186,074.0	-117.5	-6,275,383.0	-452.9	-898.7
Q(0.10)	-6.7	-8.0	-3.9	-7.1	-1.7	-15.1
Q(0.25)	-3.2	-5.7	-3.8	-3.4	-0.6	-0.5
Median	-1.0	-1.8	-3.3	-0.3	-0.0	0.0
Q(0.75)	-0.0	0.0	-1.3	0.8	0.2	1.4
Q(0.90)	2.2	5.5	-0.4	5.3	0.9	12.8
Max	74,491.1	1,098.0	66.7	302.4	86.1	486.5
Standard error						
Mean	458.6	1,156.2	3.0	38,264.0	4.2	40.5
Mean (wins.) ^a	4.8	5.5	0.6	6.4	0.8	28.9
Mean (trim) ^b	3.4	4.0	0.5	4.0	0.6	19.8
SD	5,811.3	14,711.3	29.6	489,932.4	36.8	149.5
SD (wins.) ^a	13.2	13.8	0.8	19.3	1.6	80.2
SD (trim) ^b	9.4	9.0	0.7	10.6	1.0	53.5
Min	0.0	0.0	0.0	0.0	0.0	0.0
Q(0.10)	0.1	0.0	0.0	0.0	0.1	0.0
Q(0.25)	0.3	0.4	0.1	0.4	0.1	0.0
Median	0.6	1.1	0.2	1.2	0.3	1.6
Q(0.75)	2.1	3.8	0.7	3.4	0.7	8.0
Q(0.90)	7.9	10.0	2.0	10.1	1.9	58.5
Max	74,425.5	188,404.0	378.8	6,274,203.0	463.7	1,149.3
t-value						
Mean	-3.7	25.2	-56.5	29.8	-3.3	0.3
Mean (wins.) ^a	-2.7	-2.6	-18.1	-1.1	0.0	0.1
Mean (trim) ^b	-2.4	-2.5	-16.7	-1.0	-0.1	0.1
SD	12.5	434.4	363.3	400.3	73.2	3.3
SD (wins.)a	5.5	4.8	21.3	4.1	4.8	1.6
SD (trim) ^b	4.4	4.2	18.0	3.3	3.5	1.3
Min	-131.7	-908.3	-3,800.0	-160.0	-876.2	-10.2
Q(0.10)	-7.9	-8.8	-36.5	-5.5	-4.2	-1.6
Q(0.25)	-3.8	-5.1	-28.5	-2.9	-1.5	-0.6
Median	-1.8	-1.2	-11.1	-0.3	-0.0	0.1
Q(0.75)	0.1	0.3	-3.1	0.9	1.0	1.0
Q(0.90)	2.2	1.6	-1.4	2.5	3.5	1.6
Max	11.9	5,479.5	56.1	5,120.8	318.8	25.2
More t-value statistics						
t <-1.96	45.1%	44.5%	77.4%	33.5%	20.1%	7.9%
t>1.96	11.0%	8.5%	1.8%	12.8%	15.9%	7.3%
t > 1.96	56.1%	53.0%	79.3%	46.3%	36.0%	15.2%
Relative size NSE (wins.)c NSE/SE ratio	1.4	1.3	2.3	0.9	1.4	0.9

4.13. TABLE OA.3: SUMMARY STATISTICS STAGE-4 DISPERSION

Original:

Mean (trim) ^b -1.6 -2.2 -2.7 - SD 5,816.9 14,529.9 9.6 490,02 SD (wins.) ^a 5.2 4.6 1.2	33.2 -2.9 -0.7 -0.2	TR
Mean (wins.)a -1.7 -2.1 -2.7 - Mean (trim)b -1.6 -2.2 -2.7 - SD 5,816.9 14,529.9 9.6 490,02 SD (wins.)a 5.2 4.6 1.2		
Mean (wins.)a -1.7 -2.1 -2.7 - Mean (trim)b -1.6 -2.2 -2.7 - SD 5,816.9 14,529.9 9.6 490,02 SD (wins.)a 5.2 4.6 1.2		4.9
SD 5,816.9 14,529.9 9.6 490,02 SD (wins.) ^a 5.2 4.6 1.2	0.7	1.5
SD 5,816.9 14,529.9 9.6 490,02 SD (wins.) ^a 5.2 4.6 1.2	0.7 -0.2	0.7
SD (wins.) ^a 5.2 4.6 1.2	5.2 35.4 7	71.2
		21.9
		13.4
Min -70.5 -90.1 -6.9 -6,275,38		60.7
		-5.0
		-0.2
		0.0
		0.8
		5.7
		86.5
Standard error		
Mean 457.9 1,155.3 3.0 38,26	31.5 3.5 2	24.7
		17.8
		13.2
SD 5,811.4 14,711.4 29.6 489,93		88.8
		47.1
		36.5
, ,		0.0
		0.0
		0.1
		2.0
		5.2
		46.6
Max 74,425.5 188,404.1 378.8 6,274,20		86.1
t-value 74,425.5 100,404.1 570.0 6,274,20	10.0 400.7 70	JO. I
	9.7 -3.6	0.6
		0.0
		0.2
		6.4
	3.1 3.0	1.2
		1.0
		-9.0
		-1.3
		-0.3
		0.1
		8.0
		1.4
Max 8.0 5,479.5 19.5 5,12	0.8 318.8 8	80.2
More t-value statistics	00/ 45.00/ 5	701
		.7%
		.1%
	3% 31.1% 12.	.8%
Relative size NSE (wins.) ^c NSE/SE ratio 1.2 1.0 2.4	1.3 1.5	1.0
NSE/SE ratio 1.2 1.0 2.4	1.3 1.5	1.2

	RT-H1 Efficiency	RT-H2 RSpread	RT-H3 Client Volume	RT-H4 Client RSpread	RT-H5 Client MOrders	RT-H6 Client GTR
Estimate effect size						
Mean	453.5	1,138.6	-1.8	-38,263.2	-2.9	4.9
Mean (wins.)a	-1.7	-2.1	-2.7	-0.7	-0.2	1.5
Mean (trim)b	-1.6	-2.2	-2.7	-0.7	-0.2	0.7
SD	5,816.9	14,529.9	9.6	490,025.2	35.4	71.2
SD (wins.)a	5.2	4.6	1.2	4.2	0.9	21.9
SD (trim) ^b	3.6	3.7	1.1	3.5	0.8	13.4
Min	-70.5	-90.1	-6.9	-6,275,383.0	-452.9	-360.7
Q(0.10)	-6.2	-6.9	-3.8	-5.8	-1.3	-5.0
Q(0.25)	-2.8	-4.4	-3.8	-2.0	-0.5	-0.2
Median	-1.1	-2.3	-2.9	-0.2	0.0	0.0
Q(0.75)	-0.2	-0.1	-2.0	0.4	0.1	0.8
Q(0.90)	1.2	2.2	-1.1	3.6	0.8	5.7
Max	74,491.1	186,074.5	117.5	302.4	7.1	486.5
Standard error	7 1, 10 1.1	100,07 1.0		002.1		100.0
Mean	457.9	1,155.3	3.0	38,261.5	3.5	24.7
Mean (wins.) ^a	4.2	4.6	0.5	3.2	0.6	17.8
Mean (trim) ^b	2.7	3.0	0.5	2.5	0.5	13.2
SD	5.811.4	14,711.4	29.6	489,932.6	36.2	88.8
SD (wins.) ^a	12.6	12.7	0.7	6.5	0.8	47.1
SD (trim) ^b	8.3	6.8	0.7	4.3	0.8	36.5
Min	0.0	0.0	0.0	0.0	0.0	0.0
Q(0.10)	0.0	0.0	0.0	0.0	0.0	0.0
Q(0.10)	0.1	0.6	0.1	0.6	0.1	0.0
Median	0.5	1.2	0.1	1.3	0.1	2.0
Q(0.75)	1.5	3.0	0.5	2.7	0.6	5.2
Q(0.75) Q(0.90)	5.2	7.0	1.8	5.5	1.2	46.6
Max	74,425.5	188,404.1	378.8		463.7	786.1
t-value	74,425.5	100,404.1	3/0.0	6,274,203.0	463.7	/00.1
Mean	-3.7	25.1	-54.7	29.7	-3.6	0.6
Mean (wins.)a	-2.6	-2.7	-16.1	-0.8	-0.2	0.0
Mean (trim) ^b	-2.4	-2.7	-14.6	-0.8		0.2
					-0.2	
SD SD (wins.) ^a	12.1	434.4	363.4	400.2	73.0	6.4
	4.7	3.7	19.0	3.1	3.0	1.2
SD (trim) ^b	3.7	3.2	14.9	2.4	2.4	1.0
Min	-131.7	-911.2	-3,801.4	-159.8	-876.2	-9.0
Q(0.10)	-7.5	-8.0	-33.5	-3.6	-3.6	-1.3
Q(0.25)	-3.1	-4.0	-18.5	-1.8	-1.1	-0.3
Median	-2.0	-1.9	-11.5	-0.2	0.0	0.1
Q(0.75)	-0.4	-0.4	-4.1	0.3	1.0	0.8
Q(0.90)	1.8	0.8	-1.7	1.8	2.9	1.4
Max	8.0	5,479.5	19.5	5,120.8	318.8	80.2
More t-value statistics	E4 000	40.000	04.004	00.001	45.00/	0.701
t <-1.96	51.8%	48.8%	84.8%	23.2%	15.9%	6.7%
t>1.96	9.8%	4.9%	1.8%	9.1%	15.2%	6.1%
t >1.96	61.6%	53.7%	86.6%	32.3%	31.1%	12.8%
Relative size NSE (wins.)c			_ ,			
NSE/SE ratio	1.2	1.0	2.4	1.3	1.5	1.2

4.14. TABLE OA.4: STAGE-1 ERROR-VARIANCE REGRESSIONS INCLUDING ALL TEAM-QUALITY VARIABLES INSTEAD OF THEIR FIRST PRINCIPAL COMPONENT

Original:

Panel (a): Estimates

	Raw	Wins 1% to 99%	sorized 2.5% to 97.5%	Trimi 1% to 99%	med 2.5% to 97.5%
Top publications (standardized)	-0.04	-0.03	-0.02	0.03	0.07
Experience in field (standardized)	(0.08) 0.07 (0.07)	(0.12) -0.03 (0.08)	(0.09) 0.05 (0.08)	(0.11) -0.01 (0.07)	(0.09) -0.05 (0.08)
Experience with big data (standardized)	0.07 (0.07)	-0.11 (0.08)	0.01	-0.09 (0.08)	-0.03 (0.08)
Academic seniority (standardized)	0.00	-0.05 (0.13)	-0.21* (0.09)	-0.10 (0.11)	-0.14 (0.09)
Team size (1 or 2 members) (standardized)	-0.03 (0.07)	-0.05 (0.08)	-0.03 (0.08)	-0.10 (0.07)	-0.08 (0.09)
Reproducibility score (standardized)	-0.12 (0.07)	-0.17 (0.09)	-0.25** (0.08)	-0.14 (0.09)	-0.10 (0.08)
Average rating (standardized)	-0.11 (0.08)	-0.15 (0.10)	-0.16 (0.09)	-0.17 (0.11)	-0.16 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw Winsorized		orized	Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Top publications (standardized)	-0.08	-0.07	0.04	-0.07	0.06
	(0.08)	(0.09)	(0.11)	(0.09)	(0.11)
Experience in field (standardized)	0.11	0.12	-0.00	-0.02	0.04
	(0.06)	(0.09)	(0.11)	(0.09)	(0.11)
Experience with big data (standardized)	-0.07	-0.18	-0.22	-0.23*	-0.16
	(0.10)	(0.12)	(0.13)	(0.11)	(0.10)
Academic seniority (standardized)	0.05 (0.06)	0.07 (0.07)	0.01 (0.11)	0.10 (0.08)	0.01 (0.11)
Team size (1 or 2 members) (standardized)	-0.04	-0.05	0.00	-0.01	0.00
	(0.07)	(0.09)	(0.11)	(0.08)	(0.11)
Reproducibility score (standardized)	-0.12	-0.19*	-0.25*	-0.22**	-0.11
	(0.09)	(0.09)	(0.10)	(0.08)	(0.10)
Average rating (standardized)	-0.16	-0.22	-0.11	-0.04	0.00
	(0.11)	(0.13)	(0.12)	(0.10)	(0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.72	0.50	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

	Raw	Wins 1% to 99%	orized 2.5% to 97.5%	Trimi 1% to 99%	med 2.5% to 97.5%
Top publications (standardized)	-0.04 (0.08)	-0.03 (0.12)	-0.02 (0.09)	0.03	0.07 (0.09)
Experience in field (standardized)	0.07 (0.07)	-0.03 (0.08)	0.05	-0.01 (0.07)	-0.05 (0.08)
Experience with big data (standardized)	0.07	-0.11 (0.08)	0.01 (0.08)	-0.09 (0.08)	-0.03 (0.08)
Academic seniority (standardized)	0.00	-0.05 (0.13)	-0.21* (0.09)	-0.10 (0.11)	-0.14 (0.09)
Team size (1 or 2 members) (standardized)	-0.03 (0.07)	-0.05 (0.08)	-0.03 (0.08)	-0.10 (0.07)	-0.08 (0.09)
Reproducibility score (standardized)	-0.12 (0.07)	-0.17 (0.09)	-0.25** (0.08)	-0.14 (0.09)	-0.10 (0.08)
Average rating (standardized)	-0.11 (0.08)	-0.15 (0.10)	-0.16 (0.09)	-0.17 (0.11)	-0.16 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Wins	orized	Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Top publications (standardized)	-0.08 (0.08)	-0.07 (0.09)	0.04 (0.11)	-0.07 (0.09)	0.06 (0.11)
Experience in field (standardized)	0.11 (0.06)	0.12 (0.09)	-0.00 (0.11)	-0.02 (0.09)	0.04 (0.11)
Experience with big data (standardized)	-0.07 (0.10)	-0.18 (0.12)	-0.22 (0.13)	-0.23* (0.11)	-0.16 (0.10)
Academic seniority (standardized)	0.05 (0.06)	0.07 (0.07)	0.01 (0.11)	0.10 (0.08)	0.01 (0.11)
Team size (1 or 2 members) (standardized)	-0.04 (0.07)	-0.05 (0.09)	0.00 (0.11)	-0.01 (0.08)	0.00 (0.11)
Reproducibility score (standardized)	-0.12 (0.09)	-0.19* (0.09)	-0.25* (0.10)	-0.22** (0.08)	-0.11 (0.10)
Average rating (standardized)	-0.16 (0.11)	-0.22 (0.13)	-0.11 (0.12)	-0.04 (0.10)	0.00 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.72	0.50	0.37	0.49	0.32
#Observations	984	984	984	972	936

4.15. TABLE OA.5: STAGE-1 ERROR-VARIANCE REGRESSIONS FOR A SINGLE TEAM QUALITY VARIABLE (TOP PUBLICATIONS) INSTEAD OF THEIR FIRST PRINCIPAL COMPONENT

Original:

Panel (a): Estimates

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Top publications (standardized)	-0.01 (0.06)	-0.09 (0.08)	-0.12 (0.08)	-0.06 (0.07)	-0.05 (0.08)
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.23** (0.08)	-0.12 (0.08)	-0.07 (0.08)
Average rating (standardized)	-0.12 (0.07)	-0.16 (0.10)	-0.20* (0.09)	-0.19 (0.11)	-0.19* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Wins	Winsorized		med
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Top publications (standardized)	-0.04 (0.07)	-0.04 (0.09)	0.03 (0.10)	-0.06 (0.09)	0.06 (0.10)
Reproducibility score (standardized)	-0.12 (0.09)	-0.18 (0.10)	-0.23* (0.11)	-0.20* (0.08)	-0.10 (0.10)
Average rating (standardized)	-0.14 (0.12)	-0.20 (0.13)	-0.10 (0.13)	-0.01 (0.10)	0.03 (0.11)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Top publications (standardized)	-0.01 (0.06)	-0.09 (0.08)	-0.12 (0.08)	-0.06 (0.07)	-0.05 (0.08)
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.23** (0.08)	-0.12 (0.08)	-0.07 (0.08)
Average rating (standardized)	-0.12 (0.07)	-0.16 (0.10)	-0.20* (0.09)	-0.19 (0.11)	-0.19* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Top publications (standardized)	-0.04 (0.07)	-0.04 (0.09)	0.03 (0.10)	-0.06 (0.09)	0.06 (0.10)
Reproducibility score (standardized)	-0.12 (0.09)	-0.18 (0.10)	-0.23* (0.11)	-0.20* (0.08)	-0.10 (0.10)
Average rating (standardized)	-0.14 (0.12)	-0.20 (0.13)	-0.10 (0.13)	-0.01 (0.10)	0.03 (0.11)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

	Raw	Raw Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Experience in field (standardized)	0.04 (0.06)	-0.04 (0.07)	-0.01 (0.07)	-0.02 (0.07)	-0.06 (0.07)
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.23** (0.08)	-0.12 (0.08)	-0.07 (0.08)
Average rating (standardized)	-0.13 (0.08)	-0.17 (0.11)	-0.22* (0.10)	-0.20 (0.11)	-0.19* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Experience in field (standardized)	0.10 (0.06)	0.13 (0.08)	0.05 (0.11)	0.02 (0.09)	0.09 (0.11)
Reproducibility score (standardized)	-0.11 (0.09)	-0.18 (0.10)	-0.23* (0.11)	-0.20* (0.08)	-0.09 (0.10)
Average rating (standardized)	-0.17 (0.12)	-0.23 (0.14)	-0.10 (0.13)	-0.02 (0.10)	0.03 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

	Raw Winsorized		Trimmed		
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Experience in field (standardized)	0.04 (0.06)	-0.04 (0.07)	-0.01 (0.07)	-0.02 (0.07)	-0.06 (0.07)
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.23** (0.08)	-0.12 (0.08)	-0.07 (0.08)
Average rating (standardized)	-0.13 (0.08)	-0.17 (0.11)	-0.22* (0.10)	-0.20 (0.11)	-0.19* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Winsorized		Trimi	med
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Experience in field (standardized)	0.10 (0.06)	0.13 (0.08)	0.05 (0.11)	0.02 (0.09)	0.09 (0.11)
Reproducibility score (standardized)	-0.11 (0.09)	-0.18 (0.10)	-0.23* (0.11)	-0.20* (0.08)	-0.09 (0.10)
Average rating (standardized)	-0.17 (0.12)	-0.23 (0.14)	-0.10 (0.13)	-0.02 (0.10)	0.03 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

	Raw	Wins	sorized	Trim	med
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Experience with big data (standardized)	0.05 (0.07)	-0.12 (0.08)	-0.04 (0.08)	-0.11 (0.08)	-0.04 (0.08)
Reproducibility score (standardized)	-0.12 (0.07)	-0.16 (0.09)	-0.23** (0.08)	-0.13 (0.09)	-0.08 (0.08)
Average rating (standardized)	-0.12 (0.08)	-0.18 (0.10)	-0.23* (0.09)	-0.21 (0.11)	-0.21* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Winsorized		Trimn	ned
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Experience with big data (standardized)	-0.09 (0.10)	-0.20 (0.13)	-0.21 (0.13)	-0.22 (0.11)	-0.16 (0.10)
Reproducibility score (standardized)	-0.13 (0.09)	-0.20* (0.10)	-0.25* (0.10)	-0.23** (0.08)	-0.12 (0.10)
Average rating (standardized)	-0.16 (0.12)	-0.22 (0.13)	-0.10 (0.12)	-0.04 (0.09)	0.03 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.50	0.37	0.49	0.32
#Observations	984	984	984	972	936

Reproduced:

Panel (a): Estimates

	Raw	Wins	sorized	Trim	med
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Experience with big data (standardized)	0.05 (0.07)	-0.12 (0.08)	-0.04 (0.08)	-0.11 (0.08)	-0.04 (0.08)
Reproducibility score (standardized)	-0.12 (0.07)	-0.16 (0.09)	-0.23** (0.08)	-0.13 (0.09)	-0.08 (0.08)
Average rating (standardized)	-0.12 (0.08)	-0.18 (0.10)	-0.23* (0.09)	-0.21 (0.11)	-0.21* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Winsorized		Trimn	ned
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Experience with big data (standardized)	-0.09 (0.10)	-0.20 (0.13)	-0.21 (0.13)	-0.22 (0.11)	-0.16 (0.10)
Reproducibility score (standardized)	-0.13 (0.09)	-0.20* (0.10)	-0.25* (0.10)	-0.23** (0.08)	-0.12 (0.10)
Average rating (standardized)	-0.16 (0.12)	-0.22 (0.13)	-0.10 (0.12)	-0.04 (0.09)	0.03 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.50	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

raner (a). Estimates									
	Raw	Raw Winsorized		Trimmed					
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%				
Academic seniority (standardized)	0.01 (0.06)	-0.09 (0.08)	-0.21* (0.08)	-0.11 (0.08)	-0.13 (0.08)				
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.25** (0.08)	-0.13 (0.09)	-0.09 (0.08)				
Average rating (standardized)	-0.12 (0.07)	-0.15 (0.10)	-0.17 (0.09)	-0.17 (0.11)	-0.17 (0.09)				
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes				
R ²	0.95	0.73	0.65	0.72	0.63				
#Observations	984	984	984	972	936				

Panel (b): t-values

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Academic seniority (standardized)	0.02 (0.07)	0.02 (0.09)	0.00 (0.10)	0.02 (0.09)	0.03 (0.10)
Reproducibility score (standardized)	-0.12 (0.09)	-0.18 (0.09)	-0.23* (0.11)	-0.20* (0.08)	-0.09 (0.10)
Average rating (standardized)	-0.16 (0.12)	-0.22 (0.13)	-0.09 (0.13)	-0.03 (0.10)	0.03 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

Tuner (a). Estimates									
	Raw	Winsorized		Trimmed					
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%				
Academic seniority (standardized)	0.01 (0.06)	-0.09 (0.08)	-0.21* (0.08)	-0.11 (0.08)	-0.13 (0.08)				
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.25** (0.08)	-0.13 (0.09)	-0.09 (0.08)				
Average rating (standardized)	-0.12 (0.07)	-0.15 (0.10)	-0.17 (0.09)	-0.17 (0.11)	-0.17 (0.09)				
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes				
R ²	0.95	0.73	0.65	0.72	0.63				
#Observations	984	984	984	972	936				

Panel (b): t-values

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Academic seniority (standardized)	0.02 (0.07)	0.02 (0.09)	0.00 (0.10)	0.02 (0.09)	0.03 (0.10)
Reproducibility score (standardized)	-0.12 (0.09)	-0.18 (0.09)	-0.23* (0.11)	-0.20* (0.08)	-0.09 (0.10)
Average rating (standardized)	-0.16 (0.12)	-0.22 (0.13)	-0.09 (0.13)	-0.03 (0.10)	0.03 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

4.19. TABLE OA.9: STAGE-1 ERROR-VARIANCE REGRESSIONS FOR A SINGLE TEAM QUALITY VARIABLE (ONE OR TWO MEMBERS IN TEAM) INSTEAD OF THEIR FIRST PRINCIPAL COMPONENT

Original:

Panel (a): Estimates

	Raw Winsorized		Trimmed		
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team size (1 or 2 members) (standardized)	-0.02 (0.07)	-0.08 (0.08)	-0.06 (0.08)	-0.12 (0.07)	-0.09 (0.09)
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.23** (0.08)	-0.12 (0.08)	-0.07 (0.08)
Average rating (standardized)	-0.12 (0.07)	-0.16 (0.10)	-0.21* (0.09)	-0.18 (0.10)	-0.19* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

(-)							
	Raw	Wins 1% to 99%	2.5% to 97.5%	Trimi 1% to 99%	med 2.5% to 97.5%		
Team size (1 or 2 members) (standardized)	-0.05	-0.08	-0.01	-0.05	0.00		
	(0.07)	(0.08)	(0.11)	(0.07)	(0.11)		
Reproducibility score (standardized)	-0.12	-0.18	-0.23*	-0.20*	-0.10		
	(0.09)	(0.10)	(0.11)	(0.08)	(0.10)		
Average rating (standardized)	-0.14	-0.20	-0.09	-0.01	0.04		
	(0.11)	(0.12)	(0.12)	(0.09)	(0.10)		
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes		
R ²	0.71	0.49	0.37	0.49	0.32		
#Observations	984	984	984	972	936		

Panel (a): Estimates

	Raw Winsorized			Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team size (1 or 2 members) (standardized)	-0.02 (0.07)	-0.08 (0.08)	-0.06 (0.08)	-0.12 (0.07)	-0.09 (0.09)
Reproducibility score (standardized)	-0.13 (0.07)	-0.15 (0.09)	-0.23** (0.08)	-0.12 (0.08)	-0.07 (0.08)
Average rating (standardized)	-0.12 (0.07)	-0.16 (0.10)	-0.21* (0.09)	-0.18 (0.10)	-0.19* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.65	0.72	0.63
#Observations	984	984	984	972	936

Panel (b): t-values

	Raw	Raw Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team size (1 or 2 members) (standardized)	-0.05 (0.07)	-0.08 (0.08)	-0.01 (0.11)	-0.05 (0.07)	0.00 (0.11)
Reproducibility score (standardized)	-0.12 (0.09)	-0.18 (0.10)	-0.23* (0.11)	-0.20* (0.08)	-0.10 (0.10)
Average rating (standardized)	-0.14 (0.11)	-0.20 (0.12)	-0.09 (0.12)	-0.01 (0.09)	0.04 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.49	0.37	0.49	0.32
#Observations	984	984	984	972	936

Panel (a): Estimates

	Raw	Wins	orized	Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	-0.01 (0.06)	-0.14* (0.07)	-0.16* (0.08)	-0.11 (0.06)	-0.13 (0.08)
Reproducibility score (standardized)	-0.13 (0.07)	-0.18* (0.09)	-0.22* (0.08)	-0.10 (0.08)	-0.08 (80.0)
Average rating (standardized)	-0.13 (0.07)	-0.14 (0.10)	-0.16 (0.09)	-0.19 (0.10)	-0.13 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.73	0.66	0.73	0.63
#Observations	996	996	996	984	948

Panel (b): t-values

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	0.01 (0.08)	0.01 (0.09)	0.04 (0.11)	-0.02 (0.09)	0.08 (0.09)
Reproducibility score (standardized)	-0.11 (0.09)	-0.15 (0.09)	-0.21* (0.11)	-0.18* (0.08)	-0.10 (0.10)
Average rating (standardized)	-0.15 (0.11)	-0.16 (0.13)	-0.10 (0.12)	-0.01 (0.10)	-0.03 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.51	0.37	0.49	0.34
#Observations	996	996	996	984	948

Panel (a): Estimates

Tuner (u): Estimates							
	Raw	Winsorized 1% 2.5%		Trimmed 1% 2.5°			
		to 99%	to 97.5%	to 99%	to 97.5%		
Team quality (standardized)	-0.01 (0.06)	-0.14* (0.07)	-0.16* (0.08)	-0.11 (0.06)	-0.13 (0.08)		
Reproducibility score (standardized)	-0.13 (0.07)	-0.18* (0.09)	-0.22* (0.08)	-0.10 (0.08)	-0.08 (0.08)		
Average rating (standardized)	-0.13 (0.07)	-0.14 (0.10)	-0.16 (0.09)	-0.19 (0.10)	-0.13 (0.10)		
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes		
R ²	0.95	0.73	0.66	0.73	0.63		
#Observations	996	996	996	984	948		

Panel (b): t-values

	Raw	Raw Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	0.01 (0.08)	0.01 (0.09)	0.04 (0.11)	-0.02 (0.09)	0.08 (0.09)
Reproducibility score (standardized)	-0.11 (0.09)	-0.15 (0.09)	-0.21* (0.11)	-0.18* (0.08)	-0.10 (0.10)
Average rating (standardized)	-0.15 (0.11)	-0.16 (0.13)	-0.10 (0.12)	-0.01 (0.10)	-0.03 (0.10)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.71	0.51	0.37	0.49	0.34
#Observations	996	996	996	984	948

Panel (a): Estimates

	Raw	Winso	orized	Trimn	ned
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Dummy Stage 2 - Dummy Stage 1	-0.13* (0.05)	-0.23* (0.09)	-0.29* (0.11)	-0.29** (0.10)	-0.23* (0.11)
Dummy Stage 3 - Dummy Stage 2	0.00 (0.03)	-0.26** (0.07)	-0.41** (0.10)	-0.24** (0.08)	-0.40** (0.09)
Dummy Stage 4 - Dummy Stage 3	-0.11** (0.03)	-0.26** (0.05)	-0.40** (0.06)	-0.27** (0.05)	-0.40** (0.06)
Dummy Stage 4 - Dummy Stage 1	-0.24** (0.06)	-0.75** (0.10)	-1.10** (0.13)	-0.80** (0.11)	-1.02** (0.12)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.58	0.49	0.53	0.49
#Observations	3,984	3,984	3,984	3,936	3,792

Panel (b): t-values

	· · ·				
	Raw	Winso	orized	Trimn	ned
		1% to	2.5% to	1% to	2.5% to
		99%	97.5%	99%	97.5%
Dummy Stage 2 - Dummy Stage 1	-0.01 (0.07)	0.05 (0.09)	0.27** (0.09)	0.10 (0.08)	0.23**
Dummy Stage 3 - Dummy Stage 2	-0.20** (0.06)	-0.22* (0.09)	-0.07 (0.08)	-0.12 (0.09)	0.11 (0.07)
Dummy Stage 4 - Dummy Stage 3	-0.06* (0.03)	-0.34** (0.05)	-0.59** (0.08)	-0.41** (0.06)	-0.78** (0.10)
Dummy Stage 4 - Dummy Stage 1	-0.27** (0.09)	-0.52** (0.12)	-0.39** (0.11)	-0.43** (0.10)	-0.44** (0.13)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.76	0.56	0.43	0.48	0.39
#Observations	3,984	3,984	3,984	3,936	3,792

Panel (a): Estimates

	Raw	Winsorized Trin		Trimn	ned
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Dummy Stage 2 - Dummy Stage 1	-0.13* (0.05)	-0.23* (0.09)	-0.29* (0.11)	-0.29** (0.10)	-0.23* (0.11)
Dummy Stage 3 - Dummy Stage 2	0.00 (0.03)	-0.26** (0.07)	-0.41** (0.10)	-0.24** (0.08)	-0.40** (0.09)
Dummy Stage 4 - Dummy Stage 3	-0.11** (0.03)	-0.26** (0.05)	-0.40** (0.06)	-0.27** (0.05)	-0.40** (0.06)
Dummy Stage 4 - Dummy Stage 1	-0.24** (0.06)	-0.75** (0.10)	-1.10** (0.13)	-0.80** (0.11)	-1.02** (0.12)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.95	0.58	0.49	0.53	0.49
#Observations	3,984	3,984	3,984	3,936	3,792

Panel (b): t-values

	Raw	Winso	Winsorized		ned
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Dummy Stage 2 - Dummy Stage 1	-0.01 (0.07)	0.05 (0.09)	0.27**	0.10 (0.08)	0.23**
Dummy Stage 3 - Dummy Stage 2	-0.20** (0.06)	-0.22* (0.09)	-0.07 (0.08)	-0.12 (0.09)	0.11 (0.07)
Dummy Stage 4 - Dummy Stage 3	-0.06* (0.03)	-0.34** (0.05)	-0.59** (0.08)	-0.41** (0.06)	-0.78** (0.10)
Dummy Stage 4 - Dummy Stage 1	-0.27** (0.09)	-0.52** (0.12)	-0.39** (0.11)	-0.43** (0.10)	-0.44** (0.13)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.76	0.56	0.43	0.48	0.39
#Observations	3,984	3,984	3,984	3,936	3,792

Panel (a): Standard errors

	Raw	Raw Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	0.05 (0.04)	0.04 (0.05)	0.08 (0.08)	0.05 (0.06)	0.10 (0.09)
Reproducibility score (standardized)	-0.03 (0.06)	-0.02 (0.06)	-0.03 (0.08)	0.00 (0.07)	0.03 (0.07)
Average rating (standardized)	0.06 (0.06)	0.01 (0.07)	-0.01 (0.08)	0.01 (0.07)	0.07 (0.08)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.97	0.84	0.78	0.83	0.75
#Observations	984	984	984	972	936

Panel (a): Standard errors

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Team quality (standardized)	0.05 (0.04)	0.04 (0.05)	0.08 (0.08)	0.05 (0.06)	0.10 (0.09)
Reproducibility score (standardized)	-0.03 (0.06)	-0.02 (0.06)	-0.03 (0.08)	0.00 (0.07)	0.03 (0.07)
Average rating (standardized)	0.06 (0.06)	0.01 (0.07)	-0.01 (0.08)	0.01 (0.07)	0.07 (0.08)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.97	0.84	0.78	0.83	0.75
#Observations	984	984	984	972	936

Panel (a): Standard errrs

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Dummy Stage 2 - Dummy Stage 1	0.04 (0.04)	0.03 (0.07)	-0.09 (0.08)	0.03 (0.08)	-0.17* (0.08)
Dummy Stage 3 - Dummy Stage 2	0.16** (0.03)	0.17** (0.05)	0.05 (0.06)	0.14* (0.06)	-0.04 (0.06)
Dummy Stage 4 - Dummy Stage 3	-0.01 (0.02)	-0.02 (0.03)	-0.03 (0.03)	-0.04 (0.03)	-0.01 (0.04)
Dummy Stage 4 - Dummy Stage 1	0.19** (0.04)	0.18*	-0.08 (0.09)	0.13 (0.09)	-0.23* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.97	0.81	0.76	0.77	0.73
#Observations	3,936	3,936	3,936	3,888	3,744

Panel (a): Standard errrs

	Raw	Winsorized		Trimmed	
		1% to 99%	2.5% to 97.5%	1% to 99%	2.5% to 97.5%
Dummy Stage 2 - Dummy Stage 1	0.04 (0.04)	0.03 (0.07)	-0.09 (0.08)	0.03 (0.08)	-0.17* (0.08)
Dummy Stage 3 - Dummy Stage 2	0.16** (0.03)	0.17** (0.05)	0.05 (0.06)	0.14* (0.06)	-0.04 (0.06)
Dummy Stage 4 - Dummy Stage 3	-0.01 (0.02)	-0.02 (0.03)	-0.03 (0.03)	-0.04 (0.03)	-0.01 (0.04)
Dummy Stage 4 - Dummy Stage 1	0.19** (0.04)	0.18* (0.08)	-0.08 (0.09)	0.13 (0.09)	-0.23* (0.09)
RT-hypotheses dummies	Yes	Yes	Yes	Yes	Yes
R ²	0.97	0.81	0.76	0.77	0.73
#Observations	3,936	3,936	3,936	3,888	3,744