1 Figures

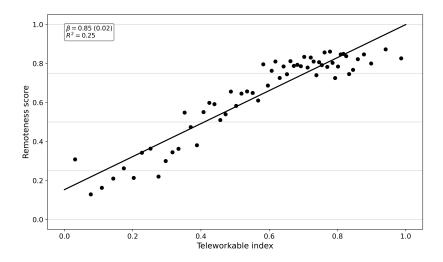


Figure 1: Remote v. Teleworkabe Scores

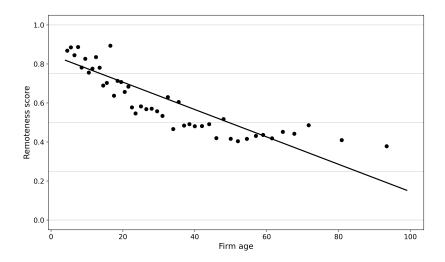


Figure 2: Remote v. Firm Age

2 Table of Means

Table 1: Table of Means

	Startup	Incumbent	All Firms
Panel A: Firm-level			
G 41	0.20	0.06	0.09
Growth	(0.31)	(0.16)	(0.22)
т	$0.26^{'}$	$0.21^{'}$	$0.22^{'}$
Leave	(0.31)	(0.28)	(0.29)
T ·	$0.35^{'}$	$0.17^{'}$	$0.22^{'}$
Join	(0.32)	(0.18)	(0.24)
T 1 1 1 1 C (0.1)	$0.67^{'}$	0.54	$0.57^{'}$
Teleworkable Score (0–1)	(0.18)	(0.25)	(0.24)
D (0.1)	$0.85^{'}$	$0.57^{'}$	$0.64^{'}$
Remote Score (0–1)	(0.30)	(0.41)	(0.40)
E 1 (C 1)	271	2740	2126
Employees (Count)	(1432)	(9555)	(8380)
A	7	43	34
Age	(2)	(34)	(33)
$P_{ant} (\Phi/aa ft)$	49	37	40
Rent $(\$/\text{sq ft})$	(21)	(19)	(20)
Cantrality Com	1419	949	1066
Centrality Score	(1830)	(1309)	(1470)
Conjunity I avala (Count)	3.62	3.86	3.80
Seniority Levels (Count)	(0.77)	(0.50)	(0.59)
N	10450	31530	41980
N firms	878.000000	2630.000000	3508.000000
N employees	235953.696356	7200435.652489	7436389.348846
Panel B: User-level			
T 1 C	526.52	311.88	355.99
Total Contributions	(932.95)	(470.01)	(601.57)
D 1 C	468.96	231.83	280.56
Restricted Contributions	(887.00)	(407.75)	(550.40)
N	10896	42124	53020
N companies	379	759	1138

Notes: Each cell shows the mean on the first line and the standard deviation (SD) beneath it in parentheses. Decimal precision reflects each variable's scale. Growth, Leave, and Join rates are fractions between 0 and 1. Teleworkable and Remote scores are index values between 0 and 1. The sample period spans 2016 H2–2022 H1 at the firm level and 2017 H1–2022 H1 at the user level; N denotes the number of observations in each subgroup.

3 Mechanisms

We begin with the "base" specification:

```
y_{it} = \alpha + \beta_1 \left( remote_i \times covid_t \right) + \beta_2 \left( remote_i \times covid_t \times startup_i \right) + \delta \left( covid_t \times startup_i \right) + \text{FE}_{it} + \varepsilon_{it},
```

which captures how the outcome responds to remote work during COVID and whether that effect differs in young firms.

In the **rent** "mirror" model we add two additional channels:

```
\begin{aligned} y_{it} &= \alpha + \beta_1 \left( remote_i \times covid_t \right) + \beta_2 \left( remote_i \times covid_t \times startup_i \right) \\ &+ \delta \left( covid_t \times startup_i \right) + \gamma_1 \left( covid_t \times rent_i \right) + \gamma_2 \left( remote_i \times covid_t \times rent_i \right) \\ &+ \mathrm{FE}_{it} + \varepsilon_{it}, \end{aligned}
```

so that γ_1 and γ_2 capture how both the baseline COVID effect and the remote-work premium vary with local office rents.

Likewise, the **centrality** (HHI) model adds:

```
\begin{aligned} y_{it} &= \alpha + \beta_1 \left( remote_i \times covid_t \right) + \beta_2 \left( remote_i \times covid_t \times startup_i \right) \\ &+ \delta \left( covid_t \times startup_i \right) + \gamma_1 \left( covid_t \times hhi_i \right) + \gamma_2 \left( remote_i \times covid_t \times hhi_i \right) \\ &+ \mathrm{FE}_{it} + \varepsilon_{it}. \end{aligned}
```

By turning on each check-mark (rent, centrality, seniority) one at a time—and then in combination—we "mirror" the base COVID×Remote specification through different mechanisms.

$3.1\quad User\ Productivity\ Mechanisms$

Table 2: User Productivity Mechanisms

				Total Co	ntributions			
Specification	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Baseline	✓	✓	✓	✓	√	✓	✓	√
Rent		\checkmark		\checkmark		\checkmark		\checkmark
HHI			\checkmark	\checkmark			\checkmark	\checkmark
Seniority					✓	✓	✓	✓
Panel A: OLS								
Remote $\times 1$ (Post)	-2.66***	0.18	-2.52*	1.14	12.69	14.73	16.23	19.07
,	(0.99)	(2.33)	(1.30)	(2.45)	(11.42)	(11.41)	(11.83)	(11.83)
Remote $\times 1$ (Post) \times Startup	9.18***	8.50***	8.33***	8.47***	8.09***	7.93***	7.60***	7.75***
	(2.69)	(2.74)	(2.92)	(2.92)	(2.76)	(2.79)	(2.95)	(2.95)
N	52,995	51,392	51,392	51,392	51,392	51,392	51,392	51,392
Panel B: IV								
Remote $\times 1$ (Post)	-17.36**	-662.28	123.22	-312.49	-21312.51	160.32	957.68	-267.63
,	(8.72)	(1258.52)	(577.60)	(1438.40)	(66029.30)	(922.16)	(3030.76)	(3882.03)
Remote $\times 1$ (Post) \times Startup	31.85***	117.04	211.08	238.68	-47.81	70.47	-107.21	227.12
` , , , _ -	(12.28)	(170.78)	(709.68)	(398.71)	(427.16)	(66.79)	(379.62)	(1235.02)
N	52,995	47,771	47,771	47,771	47,771	47,771	47,771	47,771
KP rk Wald F	26.05	0.09	0.02	0.04	0.03	0.08	0.05	0.00

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3.2 Firm Mechanisms

Table 3: Firm Scaling Mechanisms

			rin Scanng	Grov				
Specification	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Baseline	✓	✓	✓	√	✓	✓	✓	✓
Rent		\checkmark		\checkmark		\checkmark		\checkmark
HHI			\checkmark	\checkmark			\checkmark	\checkmark
Seniority					\checkmark	\checkmark	\checkmark	\checkmark
Panel A: OLS								
Remote $\times 1$ (Post)	0.00	0.01	-0.02***	-0.02	0.03	0.03	-0.02	-0.02
	(0.00)	(0.01)	(0.01)	(0.01)	(0.02)	(0.02)	(0.03)	(0.03)
Remote $\times 1(Post) \times Startup$	0.07***	0.07***	0.06**	0.06**	0.07***	0.07***	0.06***	0.06**
	(0.02)	(0.03)	(0.02)	(0.03)	(0.02)	(0.02)	(0.02)	(0.02)
N	41,980	38,760	38,760	38,760	38,760	38,760	38,760	38,760
Panel B: IV								
Remote $\times 1$ (Post)	0.01	-0.13***	-0.05*	-0.17***	-0.01	-0.14*	-0.15**	-0.27***
` '	(0.01)	(0.05)	(0.03)	(0.05)	(0.07)	(0.08)	(0.07)	(0.08)
Remote $\times 1$ (Post) \times Startup	0.21**	0.20*	0.08	0.07	0.17°	0.16	0.09	0.09
	(0.10)	(0.11)	(0.11)	(0.11)	(0.10)	(0.10)	(0.11)	(0.11)
N	41,980	38,760	38,760	38,760	38,760	38,760	38,760	38,760
KP rk Wald F	16.53	10.68	10.28	8.00	9.25	8.00	7.75	6.33

4 Firm Scaling

4.1 OLS

Table 4: Firm Scaling OLS

	de 4. Film 5	canng OLD				
Panel A: All Outcomes						
	Outcome					
	Grow	th	Join	Leave		
D (D ()	0.00		0.01**	0.02***		
Remote $\times 1$ (Post)	(0.00))	(0.00)	(0.00)		
Remote $\times 1(Post) \times Startup$	0.07*	**	0.05*	-0.01		
$Remote \times \mathbb{I}(Post) \times Startup$	(0.02)	2)	(0.03)	(0.01)		
N	41,980		41,980	41,980		
Panel B: FE Variants						
		G	rowth			
	(1)	(2)	(3)	(4)		
Pomoto v 1 (Post)	0.00	0.00	0.00	0.00		
Remote $\times 1$ (Post)	(0.00)	(0.00)	(0.00)	(0.00)		
Pamete v 1 (Post) v Startun	0.07***	0.07***	0.07***	0.07***		
Remote $\times 1(Post) \times Startup$	(0.02)	(0.02)	(0.02)	(0.02)		
Time FE			✓	√		
Firm FE		\checkmark		\checkmark		
N	41,980	41,980	41,980	41,980		

4.2 Instrumental Variables

Table 5: Firm Scaling IV

Panel A: All Outcomes			
		Outcome	
	Growth	Join	Leave
D 4 4 (D 1)	0.01	0.04***	0.05***
Remote $\times 1$ (Post)	(0.01)	(0.01)	(0.01)
D 1 (D) Ct	0.21**	0.23**	0.09
Remote $\times 1(Post) \times Startup$	(0.10)	(0.11)	(0.06)
N	41,980	41,980	41,980
KP rk Wald F	16.53	16.53	16.53

Panel B: FE Variants

	Growth					
	(1)	(2)	(3)	(4)		
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	0.01 (0.01)	0.01 (0.01)	0.01 (0.01)	0.01 (0.01)		
$\operatorname{Remote} \times \mathbb{1}(\operatorname{Post}) \times \operatorname{Startup}$	0.20 (0.10)	0.21** (0.10)	0.20** (0.10)	0.21** (0.10)		
Time FE Firm FE		√	✓	√ ✓		
N KP rk Wald F	41,980 8.26	41,980 16.53	41,980 8.26	41,980 16.53		

4.3 First Stage

Table 6: First-Stage Estimates – Firm Scaling

	Dependent variable					
Instrument	$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	$\overline{\text{Remote} \times \mathbb{1}(\text{Post}) \times \text{Startup}}$				
Teleworkable $\times 1$ (Post)	0.826***	-0.000				
Teleworkable × II (1 ost)	(0.028)	(0.000)				
$\text{Teleworkable} \times \mathbb{1}(\text{Post}) \times \text{Startup}$	-0.412***	0.414***				
	(0.077)	(0.072)				
$\mathbb{1}(\text{Post}) \times \text{Startup}$	0.455***	0.575***				
	(0.055)	(0.052)				
Time FE	\checkmark	\checkmark				
Firm FE	✓	✓				
Partial F	437.86	16.54				
N	41,980	41,980				

5 User Productivity

5.1 OLS

Table 7: User Productivity – OLS

Table 7	: User Pi	coauctivity	– OLS			
Panel A: All Outcomes						
		Outcome				
		Total			Restricted	
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$		-2.66***			-1.96**	_
, ,		(0.99)			(0.99)	
Remote $\times 1(Post) \times Startup$		9.18***			8.30***	
		(2.69)			(2.62)	
N		52,995			52,995	
Panel B: FE Variants						
		Γ	otal Con	tributions		
	(1)	(2)	(3)	(4)	(5)	(6)
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	-1.29		-1.29			
	(1.05)	-2.38**	(1.05)	-2.38**	-2.66***	-2.79***
	, ,	(1.01)	,	(1.01)	(0.99)	(0.99)
Remote \times 1(Post) \times Startup	2.74	6.19**	2.75	6.20**		
, , ,	(2.92)	(2.82)	(2.92)	(2.82)	9.18***	9.77***
	, ,	, ,	, ,	` '	(2.69)	(2.68)
Time FE			√		√	√
Firm FE		\checkmark		✓	✓	
User FE					✓	
$\mathrm{Firm}\times\mathrm{User}\mathrm{FE}$						\checkmark
N	53,020	52,995	53,020	52,995	52,995	52,718

5.2 Instrumental Variables

Table 8: User Productivity – IV

Table	8: User Pr	coductivity	- 1V			
Panel A: All Outcomes						
		Outcome				
		Total			Restricted	
Dometa v 1 (Dost)		-17.36**			-19.25**	
Remote $\times 1$ (Post)		(8.72)			(8.88)	
$\operatorname{Remote} \times \mathbb{1}(\operatorname{Post}) \times \operatorname{Startup}$		31.85*** (12.28)			34.94*** (12.13)	
N		52,995			52,995	
KP rk Wald F		26.05			26.05	
Panel B: FE Variants						
			Total Con	tributions		
	(1)	(2)	(3)	(4)	(5)	(6)
${\text{Remote} \times 1(\text{Post})}$	-306.40	-18.75**	-306.96	-18.76**		
Telliote // I(I ost)	(246.93)	(9.01)	(247.32)		(8.72)	
$\operatorname{Remote} \times \mathbb{1}(\operatorname{Post}) \times \operatorname{Startup}$		38.28***			31.85***	
	2265.39	(13.01)	2264.90	(13.02)	(12.28)	(12.32)
	(4881.21)		(4882.69)			
Time FE			√	√	√	√
Firm FE		\checkmark		\checkmark	\checkmark	
User FE					\checkmark	
$Firm \times User FE$						✓
N	49,287	52,995	49,287	52,995	52,995	52,718
KP rk Wald F	0.04	27.41	0.04	27.41	26.05	25.60

5.3 First Stage

Table 9: First-Stage Estimates – User Productivity

	Dependent variable					
Instrument	$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	$\overline{\text{Remote} \times \mathbb{1}(\text{Post}) \times \text{Startup}}$				
Toloworkable × 1(Post)	0.25***	0.00***				
Teleworkable $\times 1$ (Post)	(0.03)	(0.00)				
$\text{Teleworkable} \times \mathbb{1}(\text{Post}) \times \text{Startup}$	0.09	0.34***				
	(0.05)	(0.04)				
1/D () C	0.14***	0.65***				
$\mathbb{1}(\text{Post}) \times \text{Startup}$	(0.04)	(0.03)				
Time FE	✓	✓				
Firm FE	\checkmark	✓				
User FE	\checkmark	\checkmark				
Partial F	60.08	36.85				
N	52,995	52,995				

6 Dynamic Event-Study Evidence

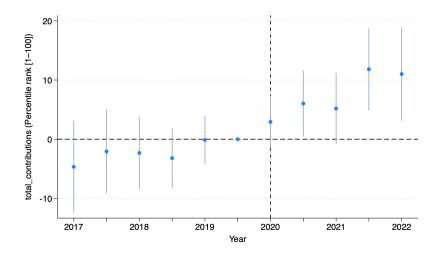


Figure 3: *
OLS – Total Contributions

100

50

2017

2018

2019

2020

2021

2022

Figure 4: *
IV – Total Contributions

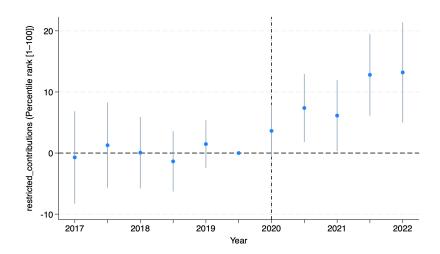
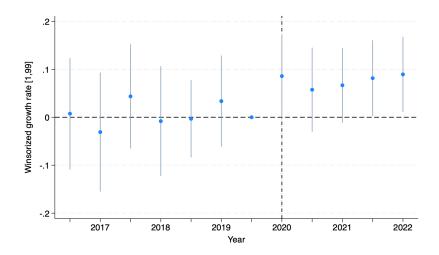


Figure 5: *
OLS – Restricted Contributions

Figure 6: *
IV – Restricted Contributions



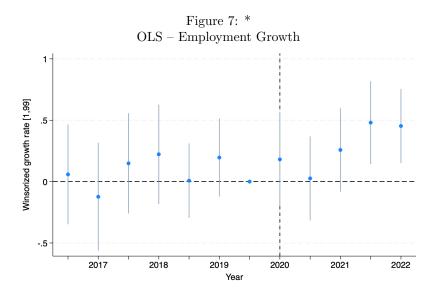
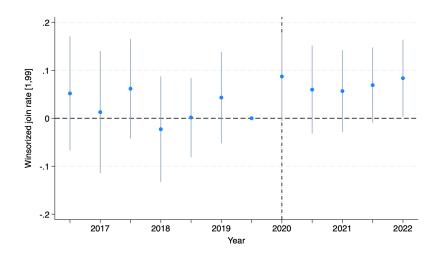


Figure 8: * IV – Employment Growth



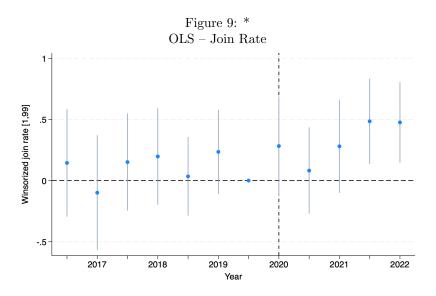
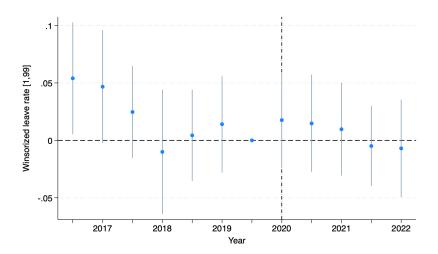


Figure 10: *
IV – Join Rate



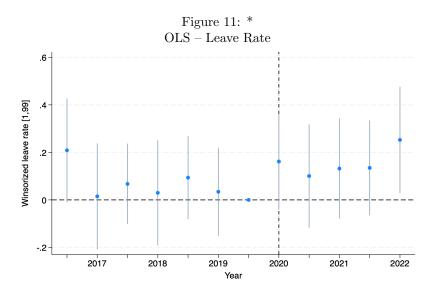


Figure 12: *
IV – Leave Rate