1 Figures

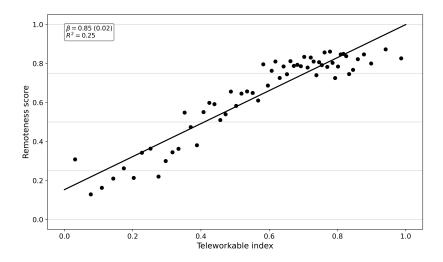


Figure 1: Remote v. Teleworkabe Scores

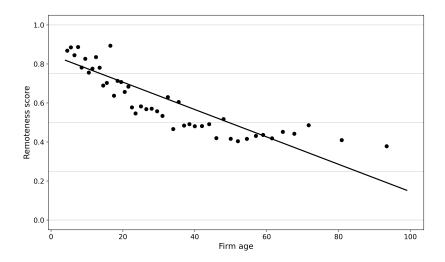


Figure 2: Remote v. Firm Age



2 Table of Means

Table 1: Table of Means

	Startup	Incumbent	All Firms		
Panel A: Firm-level					
	0.20	0.06	0.09		
Growth	(0.31)	(0.16)	(0.22)		
_	$0.26^{'}$	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 C (0.1)	$0.67^{'}$	$0.54^{'}$	$\stackrel{ extbf{-}}{0.57}$		
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)		
	271	2740	2126		
Employees (Count)	(1432)	(9555)	(8380)		
A	7	43	34		
Age	(2)	(34)	(33)		
D (((/ · · · · · · ·)	49	37	40		
Rent (\$/sq ft)	(21)	(19)	(20)		
Cantrality Com	1419	949	1066		
Centrality Score	(1830)	(1309)	(1470)		
Soniority Loyala (Count)	3.62	3.86	3.80		
Seniority Levels (Count)	(0.77)	(0.50)	(0.59)		
Number of firms	878	2630	3508		
Observations	10450	31530	41980		
Panel B: User-level					
——————————————————————————————————————	526.52	311.88	355.99		
Total Contributions	(932.95)	(470.01)	(601.57)		
D 4 : 4 1 C 4 : 1 4:	468.96	231.83	280.56		
Restricted Contributions	(887.00)	(407.75)	(550.40)		
Number of firms	379	759	1138		
Number of users	1210	4051	4820		
Observations	10896	42124	53020		

Notes: Panel A is on firm–period observations. Its bottom rows ("Number of firms" and "Observations") define the sample; above are mean (SD) across firm–periods. Panel B is based on worker–period observations and ends with three rows: "Number of firms", "Number of users", and "N" (worker–period observations). 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.

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 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					✓	\checkmark	\checkmark	✓
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)	(66029.29)	(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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Table 3: User Productivity – Wage Dispersion Mechanisms

	mage Bispersion meetinging				
	Total Contributions				
Specification	(1)	(2)	(3)		
Sd Wage	√		√		
P90 P10 Gap		\checkmark	\checkmark		
Panel A: OLS					
Remote $\times 1$ (Post)	3.92	2.89	2.40		
, ,	(3.34)	(2.59)	(3.85)		
$Remote \times \mathbb{1}(Post) \times Startup$	8.24***	8.48***	8.40***		
	(2.71)	(2.71)	(2.72)		
N	51,392	51,392	51,392		
Panel B: IV					
Remote $\times 1$ (Post)	35.38	19.76	125.26		
	(66.98)	(48.56)	(601.71)		
$Remote \times \mathbb{1}(Post) \times Startup$	26.96	22.42	143.13		
	(18.59)	(22.05)	(633.34)		
N	47,771	47,771	47,771		
KPrk Wald F	1.45	1.30	0.01		

${\bf 3.3}\quad {\bf Firm~Scaling-Wage~Dispersion~Mechanisms}$

Table 4: Firm Scaling – Wage Dispersion Mechanisms

	Growth Rate			
		JIOW thi Ital		
Specification	(1)	(2)	(3)	
Sd Wage	√		✓	
P90 P10 Gap		\checkmark	\checkmark	
Panel A: OLS				
Remote $\times 1$ (Post)	-0.04***	-0.04***	-0.04***	
,	(0.01)	(0.01)	(0.01)	
Remote $\times 1(Post) \times Startup$	0.07***	0.07***	0.07***	
	(0.03)	(0.03)	(0.03)	
N	38,436	38,436	38,436	
Panel B: IV				
Remote $\times 1$ (Post)	-0.07**	-0.04	-0.07*	
	(0.04)	(0.03)	(0.04)	
Remote $\times 1(Post) \times Startup$	0.14	0.15	0.14	
	(0.10)	(0.10)	(0.10)	
N	38,436	38,436	38,436	
KPrk Wald F	9.35	9.56	6.76	

∞

3.4 Firm Mechanisms

Table 5: Firm Scaling Mechanisms

			_	Grov	wth			
Specification	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Baseline	√	√	√	✓	√	√	√	√
Rent		\checkmark		\checkmark		\checkmark		\checkmark
ННІ			\checkmark	\checkmark			\checkmark	\checkmark
Seniority					\checkmark	\checkmark	\checkmark	\checkmark
Panel A: OLS								
Remote $\times 1$ (Post)	0.00	0.01	-0.02***	-0.02	0.02	0.03	-0.02	-0.02
,	(0.00)	(0.01)	(0.01)	(0.01)	(0.02)	(0.03)	(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)	(0.03)	(0.02)	(0.03)
N	41,980	38,436	38,436	38,436	38,436	38,436	38,436	38,436
Panel B: IV								
Remote $\times 1$ (Post)	0.01	-0.11***	-0.04**	-0.16***	-0.04	-0.15*	-0.16**	-0.27***
,	(0.01)	(0.04)	(0.02)	(0.04)	(0.07)	(0.08)	(0.07)	(0.08)
Remote $\times 1(Post) \times Startup$	0.21**	$0.14^{'}$	$0.04^{'}$	$0.03^{'}$	$0.12^{'}$	0.11	$0.06^{'}$	$0.05^{'}$
, ,	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)
N	41,980	38,436	38,436	38,436	38,436	38,436	38,436	38,436
KP rk Wald F	16.53	11.27	10.14	8.41	9.84	8.35	7.70	6.62

4 Firm Scaling

4.1 OLS

Table 6: Firm Scaling OLS

Panel A: FE Variants					
	Growth				
	(1)	(2)	(3)	(4)	
Remote $\times 1$ (Post)	0.00	0.00	0.00	0.00	
	(0.00)	(0.00)	(0.00)	(0.00)	
$\operatorname{Remote} \times \mathbb{1}(\operatorname{Post}) \times \operatorname{Startup}$	0.07***	0.07***	0.07***	0.07***	
	(0.02)	(0.02)	(0.02)	(0.02)	
Time FE			✓	✓	
Firm FE		\checkmark		\checkmark	
N	41,980	41,980	41,980	41,980	
Panel B: Base Specification	on				
	Outcome				
	Crowth	`	Ioin	Lonzo	

	Outcome			
	Growth	Join	Leave	
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	0.00	0.01**	0.02***	
	(0.00)	(0.00)	(0.00)	
$\mathrm{Remote} \times \mathbb{1}(\mathrm{Post}) \times \mathrm{Startup}$	0.07***	0.05*	-0.01	
	(0.02)	(0.03)	(0.01)	
Pre-COVID mean	0.11	0.24	0.14	
N	41,980	41,980	41,980	

4.2 Instrumental Variables

Table 7: Firm Scaling IV

Panel A: 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)		
$Remote \times \mathbb{1}(Post) \times Startup$	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		

Panel B: Base Specification

	Outcome			
	Growth	Join	Leave	
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	0.01 (0.01)	0.04*** (0.01)	0.05*** (0.01)	
$\mathrm{Remote} \times \mathbb{1}(\mathrm{Post}) \times \mathrm{Startup}$	0.21** (0.10)	0.23** (0.11)	0.09 (0.06)	
Pre-COVID mean	0.11	0.24	0.14	
N	41,980	41,980	41,980	
KP rk Wald F	16.53	16.53	16.53	

4.3 First Stage

Table 8: First-Stage Estimates – Firm Scaling

	$\mathrm{Remote} \times \mathbb{1}(\mathrm{Post})$	$\mathrm{Remote} \times \mathbb{1}(\mathrm{Post}) \times \mathrm{Startup}$
$\text{Teleworkable} \times \mathbb{1}(\text{Post})$	0.826***	-0.000
	(0.028)	(0.000)
$\text{Teleworkable} \times \mathbb{1}(\text{Post}) \times \text{Startup}$	-0.412***	0.414***
	(0.077)	(0.072)
1 (Dt) v Ctt	0.455***	0.575***
$\mathbb{1}(\text{Post}) \times \text{Startup}$	(0.055)	(0.052)
Time FE	✓	✓
Firm FE	\checkmark	\checkmark
Partial F	437.86	16.54
N	41,980	41,980

5 User Productivity

5.1 OLS

Table 9: User Productivity – OLS

Table 8	: User Pr	oauctivity -	- Ors			
Panel A: FE Variants						
			Total Cor	ntributions		
	(1)	(2)	(3)	(4)	(5)	(6)
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	-1.29	-2.38**	-1.29	-2.38**	-2.66***	-2.79***
	(1.05)	(1.01)	(1.05)	(1.01)	(0.99)	(0.99)
$\operatorname{Remote} \times \mathbb{1}(\operatorname{Post}) \times \operatorname{Startup}$	[2.74]	6.19**	$2.75^{'}$	6.20**	9.18***	9.77***
	(2.92)	(2.82)	(2.92)	(2.82)	(2.69)	(2.68)
Time FE			√	✓	✓	√
Firm FE		\checkmark		\checkmark	\checkmark	
User FE					\checkmark	
$\mathrm{Firm}\times\mathrm{User}\mathrm{FE}$						\checkmark
N	53,020	52,995	53,020	52,995	52,995	52,718
Panel B: Base Specification	on					
			Out	come		
	-	Total			Restricted	

	Outcome			
	Total	Restricted		
${\text{Remote} \times \mathbb{1}(\text{Post})}$	-2.66***	-1.96**		
Remote × II (1 ost)	(0.99)	(0.99)		
$\mathrm{Remote} \times \mathbb{1}(\mathrm{Post}) \times \mathrm{Startup}$	9.18***	8.30***		
	(2.69)	(2.62)		
Pre-COVID mean	50.30	49.79		
N	52,995	52,995		

5.2 Instrumental Variables

Table 10: User Productivity – IV

Panel A: FE Variants						
	Total Contributions					
	(1)	(2)	(3)	(4)	(5)	(6)
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$ $\overline{\text{Remote} \times \mathbb{1}(\text{Post}) \times \text{Startup}}$	-306.40 (246.93)	-18.75** (9.01) 38.28***	-306.96 (247.32)	-18.76** (9.01) 38.30***	-17.36** (8.72) 31.85***	-19.30** (8.79) 33.67***
rtemote × I(1 ost) × Startup	$2265.39 \\ (4881.21)$	(13.01)	$2264.90 \\ (4882.69)$	(13.02)	(12.28)	(12.32)
Time FE			√	√	√	√
Firm FE User FE		\checkmark		\checkmark	√	
$\mathrm{Firm} \times \mathrm{User} \; \mathrm{FE}$						\checkmark
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

Panel B: Base Specification

	Outcome		
_	Total	Restricted	
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	-17.36** (8.72)	-19.25** (8.88) 34.94***	
$\operatorname{Remote} \times \mathbb{1}(\operatorname{Post}) \times \operatorname{Startup}$	31.85*** (12.28)	34.94*** (12.13)	
Pre-COVID mean	50.30	49.79	
N	52,995	52,995	
KP rk Wald F	26.05	26.05	

5.3 First Stage

Table 11: First-Stage Estimates – User Productivity

	$\mathrm{Remote} \times \mathbb{1}(\mathrm{Post})$	$\operatorname{Remote} \times \mathbb{1}(\operatorname{Post}) \times \operatorname{Startup}$
$\overline{\text{Teleworkable} \times \mathbb{1}(\text{Post})}$	0.25***	0.00***
	(0.03)	(0.00)
$\text{Teleworkable} \times \mathbb{1}(\text{Post}) \times \text{Startup}$	0.09	0.34***
	(0.05)	(0.04)
$\mathbb{1}(\mathrm{Post}) \times \mathrm{Startup}$	0.14***	0.65***
	(0.04)	(0.03)
Time FE	✓	✓
Firm FE	\checkmark	\checkmark
User FE	✓	✓
Partial F	60.08	36.85
N	52,995	52,995

6 Dynamic Event-Study Evidence

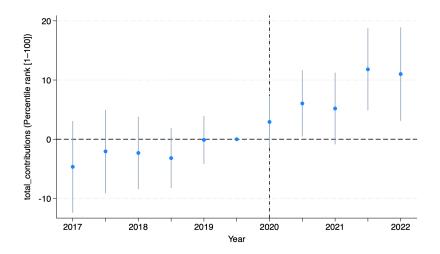


Figure 3: *
OLS – Total Contributions

100

50

2017

2018

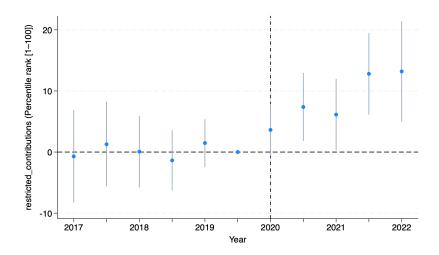
2019

2020

2021

2022

Figure 4: *
IV – Total Contributions



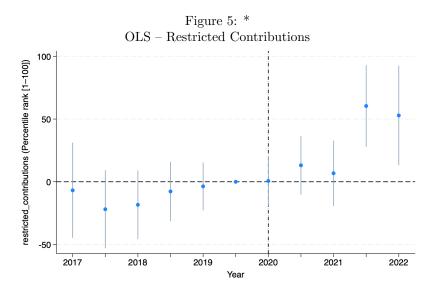
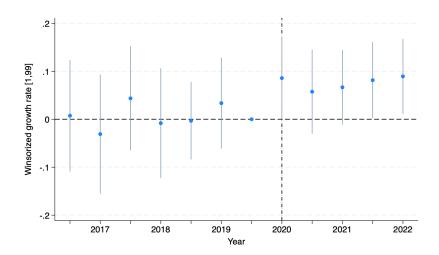


Figure 6: *
IV – Restricted Contributions



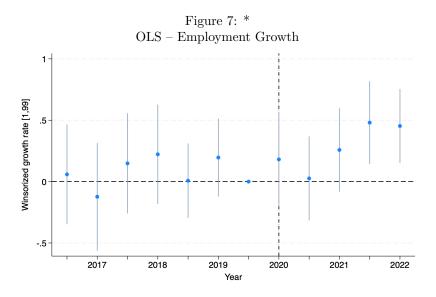
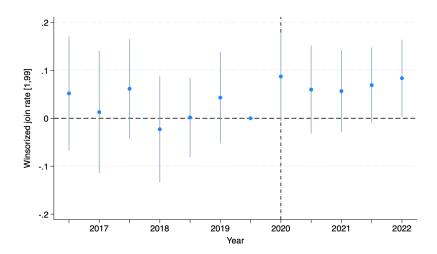


Figure 8: * IV – Employment Growth



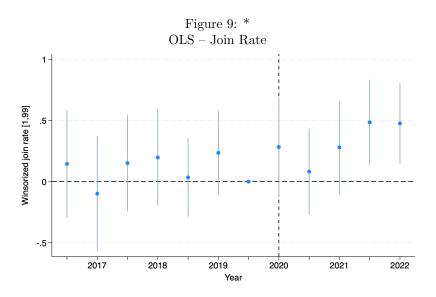
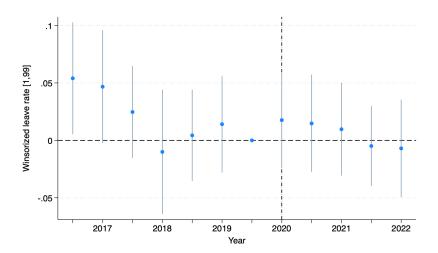


Figure 10: *
IV – Join Rate



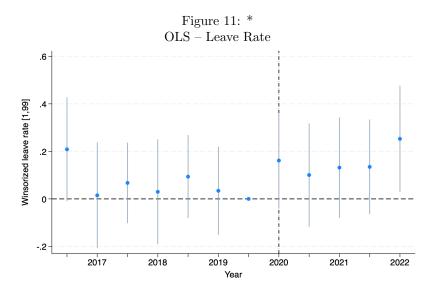


Figure 12: *
IV – Leave Rate