### 1 Table of Means

	Startup	Incumbent	All Firms
Panel A: Firm-level			
G 41	0.20	0.06	0.09
$\operatorname{Growth}$	(0.31)	(0.16)	(0.22)
т	$0.26^{'}$	$0.21^{'}$	$0.22^{'}$
Leave	(0.31)	(0.28)	(0.29)
т.	$0.35^{'}$	$0.17^{'}$	$0.22^{'}$
Join	(0.32)	(0.18)	(0.24)
Tolomonlockle Coope (0, 1)	0.67	0.54	0.57
Teleworkable Score (0–1)	(0.18)	(0.25)	(0.24)
Damata Caara (0.1)	0.85	0.57	0.64
Remote Score (0–1)	(0.30)	(0.41)	(0.40)
Employees (Count)	271	2740	2126
Employees (Count)	(1432)	(9555)	(8380)
A ma	7	43	34
Age	(2)	(34)	(33)
Dont (Place ft)	49	37	40
Rent (\$/sq ft)	(21)	(19)	(20)
Centrality Score	1419	949	1066
Centrality Score	(1830)	(1309)	(1470)
Seniority Levels (Count)	3.62	3.86	3.80
Semonty Levels (Count)	(0.77)	(0.50)	(0.59)
Number of firms	878	2630	3508
Observations	10450	31530	41980
Panel B: User-level			
	362.95	192.73	225.70
Total Contributions	(817.44)	(522.28)	(594.89)
D 4 : 4 1 C 4 2 4	320.05	139.96	174.84
Restricted Contributions	(746.65)	(359.56)	(466.14)
Number of firms	721	1503	2224
Number of users	8338	31993	37186
Observations	44801	186504	231305

Notes: Panel A uses firm—half—year observations. Panel B relies on worker—half—year observations. "Number of firms" counts distinct firm IDs that ever appear in each category over the full sample window, so Startup and Incumbent counts need not sum to the "All" column. 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.

## 2 Figures

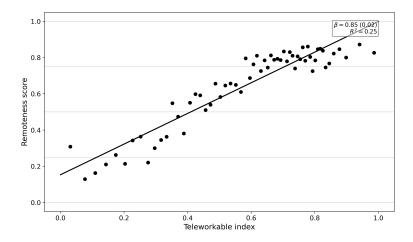


Figure 1: Remote vs. Teleworkable Scores

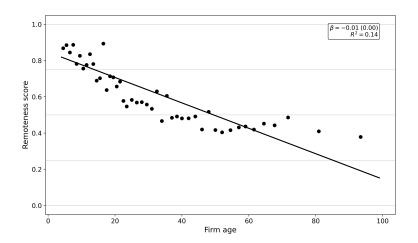


Figure 2: Remote vs. Firm Age

### 3 Event Studies

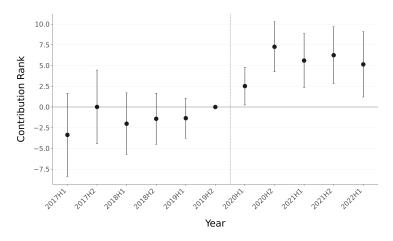


Figure 3: Event study: user rank for contributions (OLS)

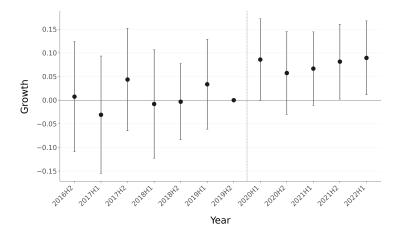


Figure 4: Event study: firm growth rate (OLS)

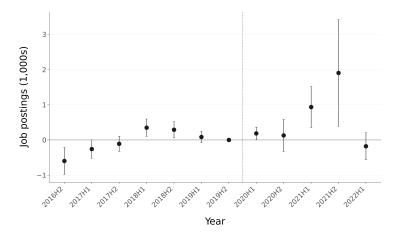


Figure 5: Event study: job postings (OLS)  $\,$ 

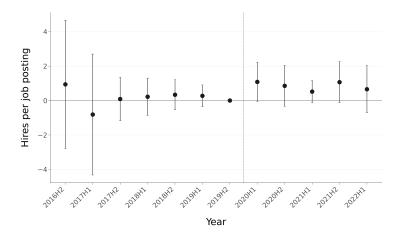


Figure 6: Event study: hires per job posting (OLS)

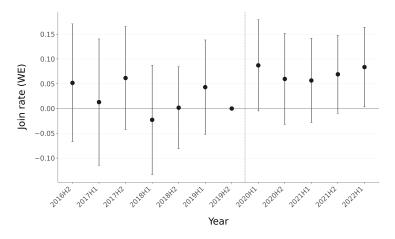


Figure 7: Event study: join rate (OLS)

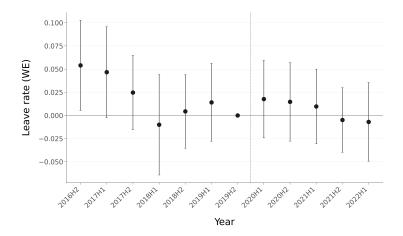


Figure 8: Event study: leave rate (OLS)

## 4 User Productivity

	Rank			Total	
	(1)	(2)	(3)	$\overline{(4)}$	
Panel A: OLS					
D	-0.28	-1.03**	-1.23**	-19.74***	
Remote $\times 1$ (Post)	(0.44)	(0.48)	(0.50)	(4.66)	
Pamoto v 1 (Post) v Startun		5.18***	6.21***	59.23***	
Remote $\times 1(Post) \times Startup$		(1.24)	(1.27)	(14.22)	
Pre-Covid Mean	49.92	49.92	49.92	184.71	
N	$229,\!862$	$229,\!862$	224,708	224,708	
Panel B: IV					
	-3.61	-7.15*	-9.26**	-124.39***	
Remote $\times 1$ (Post)	(2.82)	(3.90)	(4.01)	(33.82)	
Pamata v 1 (Past) v Startun	, ,	9.94*	12.45**	130.92**	
Remote $\times 1(Post) \times Startup$		(5.37)	(5.39)	(55.14)	
KP rk Wald F	543.26	140.60	123.43	123.43	
N	$229,\!862$	$229,\!862$	224,708	224,708	
Fixed Effects					
Time FE	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Firm FE	$\checkmark$	$\checkmark$			
User FE	$\checkmark$	$\checkmark$			
$\mathrm{Firm} \times \mathrm{User} \; \mathrm{FE}$			$\checkmark$	$\checkmark$	

## 5 Remote Modalities

	(1)	(2)
Panel A: OLS		
Fully Remote.	-0.97*** (0.22)	-0.86*** (0.21)
Fully Remote $\times$ Startup	(0.32) $2.97***$ $(0.72)$	(0.31) $3.39***$ $(0.71)$
Pre-Covid Mean	50.04	49.92
N	210,721	224,708
Panel B: IV		
Fully Remote.	-3.72** (1.74)	-4.11** (1.77)
Fully Remote $\times$ Startup	$4.37^{*}$ $(2.50)$	5.61** (2.45)
Comparison group	Hybrid	Hybrid/In-Person
KP rk Wald F	292.85	311.51
N	210,721	224,708
Fixed Effects		
Time FE	$\checkmark$	$\checkmark$
$Firm \times User FE$	$\checkmark$	$\checkmark$

## 6 First Stage Summary

	$\mathrm{Remote} \times \mathbb{1}(\mathrm{Post})$		Remote × 1(P	Post) × Startup
User-level				
$\frac{\text{Teleworkable} \times \mathbb{1}(\text{Post})}{\text{Teleworkable} \times \mathbb{1}(\text{Post})}$	0.23*** (0.01)	0.24*** (0.02)	-0.00* (0.00)	-0.00*** (0.00)
$\text{Teleworkable} \times \mathbb{1}(\text{Post}) \times \text{Startup}$	0.16*** (0.02)	0.16*** (0.03)	0.39*** (0.02)	0.40*** (0.02)
$\mathbb{1}(\mathrm{Post}) \times \mathrm{Startup}$	0.09*** (0.02)	0.09*** (0.02)	0.60*** (0.01)	0.59*** (0.01)
Fixed Effects Time FE Firm FE User FE Firm × User FE	<b>4</b> <b>4</b>	√ √	<b>* * * *</b>	√ √
Partial F KP rk Wald F N	$\begin{array}{c} 325.46 \\ 140.60 \\ 229,862 \end{array}$	295.11 123.43 224,708	$186.55 \\ 140.60 \\ 229,862$	175.46 123.43 224,708
Firm-level				
Teleworkable $\times 1$ (Post)	0.77*** (0.02)	_	-0.00 (0.00)	_
$\text{Teleworkable} \times \mathbb{1}(\text{Post}) \times \text{Startup}$	-0.35*** (0.07)	-	0.42*** (0.07)	_
$\mathbb{1}(\mathrm{Post}) \times \mathrm{Startup}$	0.45*** (0.07)	-	0.50*** (0.06)	_
Fixed Effects Time FE Firm FE	<del>\( \lambda \)</del>		<b>√</b>	
Partial F KP rk Wald F N	525.42 18.30 41,742	- - -	18.34 18.30 41,742	- - -

### 7 User Mechanisms

	Contributions					
	(1)	(2)	(3)	(4)	(5)	(6)
Remote $\times$ 1(Post)	-9.26**	-9.23*	-9.72**	-9.28**	-10.13**	-3.68
	(4.01)	(4.87)	(3.93)	(4.12)	(5.14)	(3.88)
Remote $\times 1(Post) \times Startup$	12.45**	11.76*	14.94***	12.30**	14.97**	6.88
	(5.39)	(6.15)	(5.62)	(5.52)	(6.91)	(5.65)
Fixed Effects						
Time FE	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓
$\mathrm{Firm}\times\mathrm{User}\mathrm{FE}$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Controls						
Rent		$\checkmark$			$\checkmark$	
нні			$\checkmark$		$\checkmark$	
Seniority				$\checkmark$	$\checkmark$	
Post-COVID Growth						$\checkmark$
N	224,708	218,112	224,596	224,708	218,032	224,708
KPrk Wald F	123.43	81.62	130.14	117.48	74.32	134.89

# 8 Firm Scaling

	(1)	(2)	(3)	(4)	(5)	(6)
	Growth	Growth	Join	Leave	Job Postings (1,000s)	Hires/Job Postings
Panel A: OLS						
$\frac{1}{\text{Remote} \times 1 \text{(Post)}}$	0.01** (0.01)	$0.00 \\ (0.00)$	0.01** (0.00)	0.02*** $(0.00)$	-0.91*** (0.23)	$0.09 \\ (0.08)$
$\operatorname{Remote} \times \mathbb{1}(\operatorname{Post}) \times \operatorname{Startup}$		0.07*** $(0.02)$	$0.05* \\ (0.03)$	-0.01 $(0.01)$	0.63** (0.27)	$0.37^*$ $(0.22)$
Pre-Covid Mean	0.11	0.11	0.25	0.14	0.50	2.15
N	41,742	41,742	41,742	41,742	37,681	27,790
Panel B: IV						
$\frac{\text{Remote} \times 1(\text{Post})}{\text{Remote} \times 1(\text{Post})}$	0.02 $(0.01)$	-0.00 (0.01)	0.03*** $(0.01)$	0.04*** $(0.00)$	-3.58*** (0.61)	0.38** (0.17)
$\mathrm{Remote} \times \mathbb{1}(\mathrm{Post}) \times \mathrm{Startup}$		0.22** (0.09)	0.23** (0.10)	$0.06 \\ (0.05)$	1.60* (0.96)	2.16** $(1.09)$
KP rk Wald F N	982.73 41,742	18.30 $41,742$	18.30 $41,742$	18.30 41,742	10.66 37,681	9.04 27,790
Fixed Effects						
Time FE	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Firm FE	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$

	Ops/Admin Marketin		Finance	Technical	
Panel A: OLS					
$\overline{\text{Remote} \times \mathbb{1}(\text{Post})}$	-0.0066 -0.0023		-0.0015 (0.0067)	-0.0135** (0.0059)	
Remote $\times 1(Post) \times Startup$	0.0602 (0.0414)	0.0471* (0.0250)	0.0107 (0.0399)	0.0738** (0.0287)	
$\mathrm{Post} \times \mathrm{Startup}$	-0.1366*** (0.0360)	-0.1034*** (0.0217)	-0.0965*** (0.0328)	-0.1102*** (0.0252)	
Pre-period mean	0.0996	0.1043	0.0800	0.1067	
N (OLS)	20,631	$24,\!532$	18,334	23,428	
Panel B: IV					
$\overline{\mathrm{Remote} \times \mathbb{1}(\mathrm{Post})}$	-0.0225** (0.0114)	-0.0094 (0.0105)	-0.0235* (0.0123)	-0.0326*** (0.0106)	
$Remote \times \mathbb{1}(Post) \times Startup$	0.2302* 0.0807 (0.1393) (0.1079)		$0.0302 \\ (0.1592)$	0.0873 $(0.0954)$	
$\mathrm{Post} \times \mathrm{Startup}$	-0.2677** (0.1108)	-0.1300 (0.0926)	-0.1058 (0.1243)	-0.1160 $(0.0794)$	
KP rk Wald F	11.50	12.32	5.81	15.31	
N (IV)	20,631	24,532	18,334	23,428	
Fixed Effects					
Firm FE	✓	✓	✓	$\checkmark$	
Half-year FE	✓	✓	✓	✓	

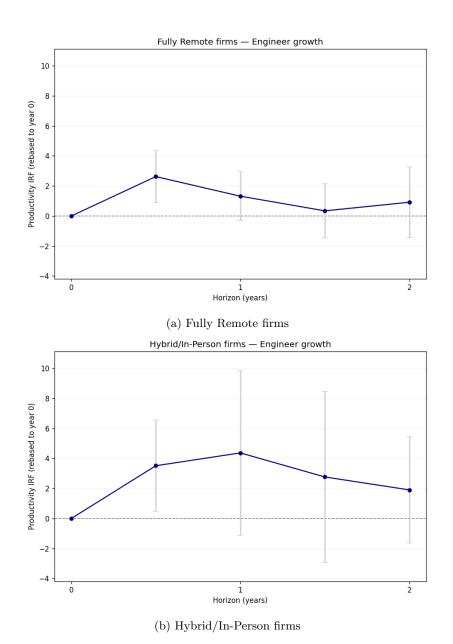


Figure 9: Engineer productivity impulse response functions by firm remote status.

## A Restricted Contributions

	Rank			Total	
	(1)	(2)	(3)	(4)	
Panel A: OLS					
D	-0.51	-1.44***	-1.48***	-17.33***	
$Remote \times \mathbb{1}(Post)$	(0.46)	(0.50)	(0.52)	(3.91)	
Remote $\times 1(Post) \times Startup$		6.37***	7.31***	55.41***	
Ttemote × I(1 ost) × Startup		(1.24)	(1.27)	(12.74)	
Pre-Covid Mean	48.48	48.48	48.48	138.15	
N	$229,\!862$	$229,\!862$	224,708	224,708	
Panel B: IV					
D (1.11/D (1)	-3.36	-6.60	-6.75	-105.59***	
$Remote \times \mathbb{1}(Post)$	(2.91)	(4.08)	(4.19)	(28.11)	
Pamata v 1 (Past) v Startun		9.07*	10.52*	108.20**	
Remote $\times 1(Post) \times Startup$		(5.43)	(5.42)	(48.92)	
KP rk Wald F	543.26	140.60	123.43	123.43	
N	$229,\!862$	$229,\!862$	224,708	224,708	
Fixed Effects					
Time FE	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Firm FE	$\checkmark$	$\checkmark$			
User FE	$\checkmark$	$\checkmark$			
$\mathrm{Firm}\times\mathrm{User}\mathrm{FE}$			$\checkmark$	$\checkmark$	