Statistics/Data analysis

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      name:  <unnamed>
       log:  E:\workdata\708030\JOP_article\log_appendix.smcl
  log type:  smcl
 opened on:  23 May 2024, 16:06:48

1 .
2 . ********************************************************************************
3 . *APPENDIX C: Parallel Trends Assumption
4 . ********************************************************************************
5 .
6 . *Data
7 . use "data/micro_main.dta", clear
  (DREAM29_Z                        )

8 .
9 . *Figure C1
10. quietly: reg meeting year_week##industry_share_bi##ethnic if sample == 1 & year_week
  >  < 3133, cluster(municip_id)

11.
12. coefplot, vertical keep(*.year_week#*.industry_share_bi#*.ethnic) yline(0, lcolor(re
  > d)) xline(61, lcolor(blue)) xlabel(1 "2019w1" 20 "2019w20" 40 "2019w40" 63 "2020w13"
  > ) ylabel(-0.07(0.03)0.07, nogrid) mcolor(black) ciopts(lcolor(black)) ytitle("Effect
  > s of Workload Exposure") graphregion(color(white))

13. qui graph export "output\fig_C1_trends.png", replace

14.
15. ********************************************************************************
16. *APPENDIX F: Descriptive Statistics
17. ********************************************************************************
18.
19. *Data
20. use "data/aggregate_main.dta", clear
  (DREAM29_Z                        )

21.
22. *Figure F1
23. histogram industry_share if island == 0 & clients >10, width(0.001) graphregion(colo
  > r(white)) ytitle("Percent", size(medium)) title("") blcolor(gs10) bfcolor(gs10) perc
  > ent xtitle("Share of jobs in lockdown affected industries", size(medium)) ylabel(0(5
  > )15, labsize(small) nogrid) xlabel(0(0.01)0.05, nogrid labsize(small) nogrid)
  (bin=33, start=.0115603, width=.001)

24. graph display, ysize(4) xsize(6)

25. qui graph export "output\fig_F1_industry_share.png", replace

26.
27. *Figure F2
28. histogram meetings if island == 0 & meetings < 0.4 & clients >10, width(0.005) graph
  > region(color(white)) ytitle("Percent", size(medium)) title("") blcolor(gs10) bfcolor
  > (gs10) percent xtitle("Average number of caseworker meetings", size(medium)) ylabel(
  > 0(1)5, labsize(small) nogrid) xlabel(0(0.1)0.4, labsize(small) nogrid)
  (bin=67, start=0, width=.005)

29. graph display, ysize(4) xsize(6)

30. qui graph export "output\fig_F2_meetings.png", replace
```

```
31.
32. *Data
33. use "data/micro_main.dta", clear
  (DREAM29_Z                        )

34.
35. *Table F1
36. estimates clear

37. quietly: estpost sum  ethnic mena age_ gender education spell_seq sick_19 employ_19
  > meeting meeting_person meeting_digital activation if sample == 1

38. esttab, replace cells("count mean(fmt(a2)) sd(fmt(a2)) min(fmt(a2)) max(fmt(a2))") n
  > onumbers noobs label
```

	count	mean	sd	min	max
Ethnicity	**8124284**	**0.13**	**0.33**	**0**	**1**
MENA immigrant/des~t	**8124284**	**0.069**	**0.25**	**0**	**1**
Age, previous birt~y	**8124284**	**39.8**	**12.6**	**18**	**66**
Gender	**8124284**	**0.48**	**0.50**	**0**	**1**
Highest education	**7979188**	**3.81**	**1.67**	**1**	**7**
Unemployment durat~n	**8124284**	**16.3**	**16.0**	**1**	**88**
Sickness absenc~2019	**8124284**	**2.62**	**7.01**	**0**	**52**
Employment, 2019	**8124284**	**19.6**	**17.9**	**0**	**52**
Meeting	**8124284**	**0.10**	**0.31**	**0**	**1**
In-person meeting	**8124284**	**0.077**	**0.27**	**0**	**1**
Digital meeting	**8124284**	**0.026**	**0.16**	**0**	**1**
Activation program	**8124284**	**0.15**	**0.35**	**0**	**1**

```
39.
40. ********************************************************************************
41. *APPENDIX G: Meetings and Minimum Requirements
42. ********************************************************************************
43.
44. *Data
45. use "data/aggregate_main.dta", clear
  (DREAM29_Z                        )

46.
47. *Figure G1
48. tsline meetings_max meetings_min if year_week > 3120 & clients>10, ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0(0.05)0.15, labsize(small) nogrid) xlabel(3120 3130 3140 3155, nogrid labsiz
  > e(small)) ///
  > title("") graphregion(color(white)) ytitle("Average meetings", size(medium)) ///
  > xtitle("Year, week", size(medium)) ///
  > recast(line) lwidth(medium medium) lcolor(black black) lpattern(solid shortdash_dot)
  >  ///
  > legend(order(1 "> Min. requirements" 2 "<= Min. requirements") size(medium), ) ysc(t
  > itlegap(+3)) ///
  > || (pcarrowi 0.13 3128 0.13 3130 (9) "Lockdown" 0.14 3143 0.14 3141 (3) "Reopening",
  >  color(black) mlabcolor(black))

49. graph display, ysize(4) xsize(6)

50. qui graph export "output\fig_G1_minimum_requirements.png", replace
```

```
51.
52. ******************************************************************************
53. *APPENDIX H: Ethnic Minorities from MENA countries
54. ******************************************************************************
55.
56. *Data
57. use "data/aggregate_main.dta", clear
  (DREAM29_Z                        )

58.
59. *Figure H1
60. twoway (scatter meetings_dk year_week if island == 0 & meetings_dk <0.4 & clients_dk
  >  >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess meetings_dk year_week if island == 0 & treat_1 == 0 & island == 0, lcolor(bl
  > ack) lwidth(medthick) bwidth(0.5)) || ///
  > lowess meetings_dk year_week if island == 0 & treat_1 == 1 & island == 0, lcolor(bla
  > ck) lwidth(medthick) bwidth(0.5) || ///
  > lowess meetings_dk year_week if island == 0 & treat_2 == 1 & island == 0, lcolor(bla
  > ck) lwidth(medthick) bwidth(0.5) || ///
  > (scatter meetings_menap  year_week if island == 0 & island == 0 & meetings_menap <0.
  > 4 & clients_mena >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess meetings_menap  year_week if island == 0 & treat_1 == 0 & island == 0 & clie
  > nts_mena > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5)) || //
  > /
  > lowess meetings_menap  year_week if island == 0 & treat_1 == 1 & island == 0 & clien
  > ts_mena > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5) || ///
  > lowess meetings_menap  year_week if island == 0 & treat_2 == 1 & island == 0 & clien
  > ts_mena > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ylabel(0.0(0.1)0.4, labsi
  > ze(small) nogrid) xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("", size(medium) color(black) margin(b=3)) graphregion(color(white)) ytitle("A
  > verage meetings", size(medium)) ///
  > xtitle("Year, week", size(medium)) recast(line) legend(order(2 "Danish majority" 6 "
  > Non-western minority") size(small) symxsize(7)) ysc(titlegap(+3)) ///
  > || (pcarrowi 0.25 3125 0.25 3130 (9) "Lockdown" 0.3 3145 0.3 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black))

61. graph display, ysize(4) xsize(6)

62. qui graph export "output\fig_H1_mena.png", replace

63.
64. *Figure H2
65. twoway (scatter meetings_dk year_week if island == 0 & industry_share_bi ==0 & meeti
  > ngs_dk <0.25 & clients_dk >10, msymbol(p) mcolor(gs10)) ///
  > || (lowess meetings_dk year_week if island == 0 & treat_1 == 0 & industry_share_bi =
  > =0, lcolor(black) lwidth(medthick)) ///
  > || lowess meetings_dk year_week if island == 0 & treat_1 == 1 & industry_share_bi ==
  > 0, lcolor(black) lwidth(medthick) ///
  > || lowess meetings_dk year_week if island == 0 & treat_2 == 1 & industry_share_bi ==
  > 0, lcolor(black) lwidth(medthick) ///
  > || (scatter meetings_menap year_week if island == 0 & industry_share_bi ==0 & meetin
  > gs_menap <0.25 & clients_mena >10, msymbol(p) mcolor(gs16)) ///
  > || (lowess meetings_menap year_week if island == 0 & treat_1 == 0 & industry_share_b
  > i ==0, lcolor(black) lpattern(shortdash) lwidth(medthick)) ///
  > || lowess meetings_menap year_week if island == 0 & treat_1 == 1 & industry_share_bi
  >  ==0, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > || lowess meetings_menap year_week if island == 0 & treat_2 == 1 & industry_share_bi
  >  ==0, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0.0(0.05)0.25, labsize(small) nogrid) ///
  > xlabel(3068 3097 3126 3155, labsize(small) nogrid)  ///
  > title("{bf:(a) Low Exposure}", size(medium) color(black) margin(b=3)) ///
  > graphregion(color(white)) ytitle("Average meetings", size(medium)) ///
  > xtitle("Year, week", size(medium)) ///
  > recast(line) ///
  > ysc(titlegap(+3)) ///
  > legend(order(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7))
  > ///
  > || (pcarrowi 0.2 3125 0.2 3130 (9) "Lockdown" 0.24 3145 0.24 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black)), ///
  > saving(output\did_low_menap.gph, replace)
```

```
  file output\did_low_menap.gph saved

66.
67. twoway (scatter meetings_dk year_week if island == 0 & industry_share_bi ==1 & meeti
  > ngs_dk <0.25 & clients_dk >10, msymbol(p) mcolor(gs10)) ///
  > || (lowess meetings_dk year_week if island == 0 & treat_1 == 0 & industry_share_bi =
  > =1, lcolor(black) lwidth(medthick)) ///
  > || lowess meetings_dk year_week if island == 0 & treat_1 == 1 & industry_share_bi ==
  > 1, lcolor(black) lwidth(medthick) ///
  > || lowess meetings_dk year_week if island == 0 & treat_2 == 1 & industry_share_bi ==
  > 1, lcolor(black) lwidth(medthick) ///
  > || (scatter meetings_menap year_week if island == 0 & industry_share_bi ==1 & meetin
  > gs_menap <0.25 & clients_mena >10, msymbol(p) mcolor(gs16)) ///
  > || (lowess meetings_menap year_week if island == 0 & treat_1 == 0 & industry_share_b
  > i ==1, lcolor(black) lpattern(shortdash) lwidth(medthick)) ///
  > || lowess meetings_menap year_week if island == 0 & treat_1 == 1 & industry_share_bi
  >  ==1, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > || lowess meetings_menap year_week if island == 0 & treat_2 == 1 & industry_share_bi
  >  ==1, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0.0(0.05)0.25, labsize(small) nogrid) ///
  > xlabel(3068 3097 3126 3155, labsize(small) nogrid)  ///
  > title("{bf:(b) High Exposure}", size(medium) color(black) margin(b=3)) ///
  > graphregion(color(white)) ytitle("", size(medium)) ///
  > xtitle("Year, week", size(medium)) ///
  > recast(line) ///
  > ysc(titlegap(+3)) ///
  > legend(order(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7))
  > ///
  > || (pcarrowi 0.2 3125 0.2 3130 (9) "Lockdown" 0.24 3145 0.24 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black)), ///
  > saving(output\did_high_menap.gph, replace)
  file output\did_high_menap.gph saved

68.
69. grc1leg output\did_low_menap.gph output\did_high_menap.gph, graphregion(color(white)
  > ) ycommon

70. graph display, ysize(4) xsize(6)

71. qui graph export "output\fig_H2_mena.png", replace

72.
73.
74. ********************************************************************************
75. *APPENDIX I: Digital and In-Person Meetings
76. ********************************************************************************
77.
78. *Data
79. use "data/aggregate_main.dta", clear
  (DREAM29_Z                          )

80.
81. *Figure I1
82.
83. *In-Person
84. twoway (scatter meetings_person_dk year_week if island == 0 & meetings_person_dk <0.
  > 4 & clients_dk >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess meetings_person_dk year_week if treat_1 == 0 & island == 0, lcolor(black) lw
  > idth(medthick) bwidth(0.5)) || ///
  > lowess meetings_person_dk year_week if treat_1 == 1 & island == 0, lcolor(black) lwi
  > dth(medthick) bwidth(0.5) || ///
  > lowess meetings_person_dk year_week if treat_2 == 1 & island == 0, lcolor(black) lwi
  > dth(medthick) bwidth(0.5) || ///
  > (scatter meetings_person_ethnic  year_week if island == 0 & meetings_ethnic <0.4 & c
  > lients_ethnic > 10, msymbol(p) mcolor(gs10)) || ///
  > (lowess meetings_person_ethnic  year_week if treat_1 == 0 & island == 0 & clients_et
  > hnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5)) || ///
  > lowess meetings_person_ethnic  year_week if treat_1 == 1 & island == 0 & clients_eth
  > nic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5) || ///
  > lowess meetings_person_ethnic  year_week if treat_2 == 1 & island == 0 & clients_eth
  > nic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5) ///
```

```
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ylabel(0.0(0.1)0.4, labsi
  > ze(small) nogrid) xlabel(3068 3097 3126 3155, nogrid labsize(small)) ///
  > title("{bf:(a) In-Person}", size(medium) color(black) margin(b=3)) graphregion(color
  > (white)) ytitle("Average meetings", size(medium)) ///
  > xtitle("Year, week", size(medium)) recast(line) legend(order(2 "Danish majority" 6 "
  > Non-western minority") size(small) symxsize(7)) ysc(titlegap(+3)) ///
  > || (pcarrowi 0.25 3125 0.25 3130 (9) "Lockdown" 0.3 3145 0.3 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black)), ///
  > saving(output\scatter_in_person.gph, replace)
  file output\scatter_in_person.gph saved

85.
86. *Digital
87. twoway (scatter meetings_digital_dk year_week if island == 0 & meetings_person_dk <0
  > .4 & clients_dk >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess meetings_digital_dk year_week if treat_1 == 0 & island == 0, lcolor(black) l
  > width(medthick) bwidth(0.5)) || ///
  > lowess meetings_digital_dk year_week if treat_1 == 1 & island == 0, lcolor(black) lw
  > idth(medthick) bwidth(0.5) || ///
  > lowess meetings_digital_dk year_week if treat_2 == 1 & island == 0, lcolor(black) lw
  > idth(medthick) bwidth(0.5) || ///
  > (scatter meetings_digital_ethnic  year_week if island == 0 & meetings_ethnic <0.4 &
  > clients_ethnic > 10, msymbol(p) mcolor(gs10)) || ///
  > (lowess meetings_digital_ethnic  year_week if treat_1 == 0 & island == 0 & clients_e
  > thnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5)) || ///
  > lowess meetings_digital_ethnic  year_week if treat_1 == 1 & island == 0 & clients_et
  > hnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5) || ///
  > lowess meetings_digital_ethnic  year_week if treat_2 == 1 & island == 0 & clients_et
  > hnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) bwidth(0.5) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ylabel(0.0(0.1)0.4, labsi
  > ze(small) nogrid) xlabel(3068 3097 3126 3155, nogrid labsize(small)) ///
  > title("{bf:(b) Digital}", size(medium) color(black) margin(b=3)) graphregion(color(w
  > hite)) ytitle("", size(medium)) ///
  > xtitle("Year, week", size(medium)) recast(line) legend(order(2 "Danish majority" 6 "
  > Non-western minority") size(small) symxsize(7)) ysc(titlegap(+3)) ///
  > || (pcarrowi 0.25 3125 0.25 3130 (9) "Lockdown" 0.3 3145 0.3 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black)), ///
  >  saving(output\scatter_digi.gph, replace)
  file output\scatter_digi.gph saved

88.
89. grc1leg output\scatter_in_person.gph output\scatter_digi.gph, graphregion(color(whit
  > e))

90. graph display, ysize(4) xsize(6)

91. qui graph export "output\fig_I1_digital.png", replace

92.
93. *Figure I2
94. *In person-meetings, low exposure
95. twoway (scatter meetings_person_dk year_week if island == 0 & industry_share_bi ==0
  > & meetings_dk <0.25 & clients_dk >10, msymbol(p) mcolor(gs10)) ///
  > || (lowess meetings_person_dk year_week if island == 0 & treat_1 == 0 & industry_sha
  > re_bi ==0, lcolor(black) lwidth(medthick)) ///
  > || lowess meetings_person_dk year_week if island == 0 & treat_1 == 1 & industry_shar
  > e_bi ==0, lcolor(black) lwidth(medthick) ///
  > || lowess meetings_person_dk year_week if island == 0 & treat_2 == 1 & industry_shar
  > e_bi ==0, lcolor(black) lwidth(medthick) ///
  > || (scatter meetings_person_ethnic year_week if island == 0 & industry_share_bi ==0
  > & meetings_ethnic <0.25 & clients_ethnic >10, msymbol(p) mcolor(gs16)) ///
  > || (lowess meetings_person_ethnic year_week if island == 0 & treat_1 == 0 & industry
  > _share_bi ==0, lcolor(black) lpattern(shortdash) lwidth(medthick)) ///
  > || lowess meetings_person_ethnic year_week if island == 0 & treat_1 == 1 & industry_
  > share_bi ==0, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > || lowess meetings_person_ethnic year_week if island == 0 & treat_2 == 1 & industry_
  > share_bi ==0, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0.0(0.1)0.3, labsize(small) nogrid) ///
  > xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("{bf:(a) Low, In-Person}", size(medium) color(black) margin(b=3)) ///
  > graphregion(color(white)) ytitle("Average meetings", size(medium)) ///
```

```
  > xtitle("", size(medium)) ///
  > recast(line) ///
  > ysc(titlegap(+3)) ///
  > legend(order(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7))
  > ///
  > || (pcarrowi 0.25 3125 0.25 3130 (9) "Lockdown" 0.3 3145 0.3 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black)), ///
  > saving(output\did_low_industri_bi_per.gph, replace)
  file output\did_low_industri_bi_per.gph saved

96.
97. *In person-meetings, high exposure
98. twoway (scatter meetings_person_dk year_week if island == 0 & industry_share_bi ==1
  > & meetings_dk <0.25 & clients_dk >10, msymbol(p) mcolor(gs10)) ///
  > || (lowess meetings_person_dk year_week if island == 0 & treat_1 == 0 & industry_sha
  > re_bi ==1, lcolor(black) lwidth(medthick)) ///
  > || lowess meetings_person_dk year_week if island == 0 & treat_1 == 1 & industry_shar
  > e_bi ==1, lcolor(black) lwidth(medthick) ///
  > || lowess meetings_person_dk year_week if  island == 0 &treat_2 == 1 & industry_shar
  > e_bi ==1, lcolor(black) lwidth(medthick) ///
  > || (scatter meetings_person_ethnic year_week if island == 0 & industry_share_bi ==1
  > & meetings_ethnic <0.25 & clients_ethnic >10, msymbol(p) mcolor(gs16)) ///
  > || (lowess meetings_person_ethnic year_week if island == 0 & treat_1 == 0 & industry
  > _share_bi ==1, lcolor(black) lpattern(shortdash) lwidth(medthick)) ///
  > || lowess meetings_person_ethnic year_week if island == 0 & treat_1 == 1 & industry_
  > share_bi ==1, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > || lowess meetings_person_ethnic year_week if island == 0 & treat_2 == 1 & industry_
  > share_bi ==1, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0.0(0.1)0.3, labsize(small) nogrid) ///
  > xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("{bf:(b) High, In-Person}", size(medium) color(black) margin(b=3)) ///
  > graphregion(color(white)) ytitle("", size(medium)) ///
  > xtitle("", size(medium)) ///
  > recast(line) ///
  > ysc(titlegap(+3)) ///
  > legend(order(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7))
  > ///
  > || (pcarrowi 0.25 3125 0.25 3130 (9) "Lockdown" 0.3 3145 0.3 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black)), ///
  > saving(output\did_high_industri_bi_per.gph, replace)
  file output\did_high_industri_bi_per.gph saved

99.
100 *Digital meeting, low exposure
101 twoway (scatter meetings_digital_dk year_week if island == 0 & industry_share_bi ==0
  >  & meetings_dk <0.25 & clients_dk >10, msymbol(p) mcolor(gs10)) ///
  > || (lowess meetings_digital_dk year_week if island == 0 & treat_1 == 0 & industry_sh
  > are_bi ==0, lcolor(black) lwidth(medthick)) ///
  > || lowess meetings_digital_dk year_week if island == 0 & treat_1 == 1 & industry_sha
  > re_bi ==0, lcolor(black) lwidth(medthick) ///
  > || lowess meetings_digital_dk year_week if island == 0 & treat_2 == 1 & industry_sha
  > re_bi ==0, lcolor(black) lwidth(medthick) ///
  > || (scatter meetings_digital_ethnic year_week if island == 0 & industry_share_bi ==0
  >  & meetings_ethnic <0.25 & clients_ethnic >10, msymbol(p) mcolor(gs16)) ///
  > || (lowess meetings_digital_ethnic year_week if island == 0 & treat_1 == 0 & industr
  > y_share_bi ==0, lcolor(black) lpattern(shortdash) lwidth(medthick)) ///
  > || lowess meetings_digital_ethnic year_week if island == 0 & treat_1 == 1 & industry
  > _share_bi ==0, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > || lowess meetings_digital_ethnic year_week if island == 0 & treat_2 == 1 & industry
  > _share_bi ==0, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0.0(0.1)0.3, labsize(small) nogrid) ///
  > xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("{bf:(c) Low, Digital}", size(medium) color(black) margin(b=3)) ///
  > graphregion(color(white)) ytitle("Average meetings", size(medium)) ///
  > xtitle("Year, week", size(medium)) ///
  > recast(line) ///
  > ysc(titlegap(+3)) ///
  > legend(order(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7))
  > ///
  > || (pcarrowi 0.25 3125 0.25 3130 (9) "Lockdown" 0.3 3145 0.3 3141 (3) "Reopening", c
```

```
  > olor(black) mlabcolor(black)), ///
  > saving(output\did_low_industri_bi_dig.gph, replace)
  file output\did_low_industri_bi_dig.gph saved

102
103 *Digital meeting, high exposure
104 twoway (scatter meetings_digital_dk year_week if industry_share_bi ==1 & meetings_dk
  >  <0.25 & clients_dk >10, msymbol(p) mcolor(gs10)) ///
  > || (lowess meetings_digital_dk year_week if island == 0 & treat_1 == 0 & industry_sh
  > are_bi ==1, lcolor(black) lwidth(medthick)) ///
  > || lowess meetings_digital_dk year_week if island == 0 & treat_1 == 1 & industry_sha
  > re_bi ==1, lcolor(black) lwidth(medthick) ///
  > || lowess meetings_digital_dk year_week if island == 0 & treat_2 == 1 & industry_sha
  > re_bi ==1, lcolor(black) lwidth(medthick) ///
  > || (scatter meetings_digital_ethnic year_week if island == 0 & industry_share_bi ==1
  >  & meetings_ethnic <0.25 & clients_ethnic >10, msymbol(p) mcolor(gs16)) ///
  > || (lowess meetings_digital_ethnic year_week if island == 0 & treat_1 == 0 & industr
  > y_share_bi ==1, lcolor(black) lpattern(shortdash) lwidth(medthick)) ///
  > || lowess meetings_digital_ethnic year_week if island == 0 & treat_1 == 1 & industry
  > _share_bi ==1, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > || lowess meetings_digital_ethnic year_week if island == 0 & treat_2 == 1 & industry
  > _share_bi ==1, lcolor(black) lpattern(shortdash) lwidth(medthick) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0.0(0.1)0.3, labsize(small) nogrid) ///
  > xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("{bf:(d) High, Digital}", size(medium) color(black) margin(b=3)) ///
  > graphregion(color(white)) ytitle("", size(medium)) ///
  > xtitle("Year, week", size(medium)) ///
  > recast(line) ///
  > ysc(titlegap(+3)) ///
  > legend(order(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7))
  > ///
  > || (pcarrowi 0.25 3125 0.25 3130 (9) "Lockdown" 0.3 3145 0.3 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black)), ///
  > saving(output\did_high_industri_bi_dig.gph, replace)
  file output\did_high_industri_bi_dig.gph saved

105
106 *Combine the four graphs into one
107 grc1leg output\did_low_industri_bi_per.gph output\did_high_industri_bi_per.gph outpu
  > t\did_low_industri_bi_dig.gph output\did_high_industri_bi_dig.gph, graphregion(color
  > (white)) ycommon

108 graph display, ysize(4) xsize(6)

109 qui graph export "output\fig_I2_digital.png", replace

110
111 ********************************************************************************
112 *APPENDIX J: Individuals with Similar Labor Market Characteristics
113 ********************************************************************************
114
115 *Data
116 use "data/micro_main.dta", clear
  (DREAM29_Z                        )

117
118 *Table J1
119 eststo z13: reg meeting treat_1##c.time_w11##ethnic if sample == 1 & industri_servic
  > e == 1, cluster(municip_id)

  Linear regression                               Number of obs     =  1,990,920
                                                  F(7, 97)          =     63.46
                                                  Prob > F          =    0.0000
                                                  R-squared         =    0.0056
                                                  Root MSE          =    .30162
```

(Std. err. adjusted for **98** clusters in **municip_id**)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	**-.0534513**	**.0059923**	**-8.92**	**0.000**	**-.0653443**	**-.0415582**
time_w11	**.0002319**	**.000052**	**4.46**	**0.000**	**.0001287**	**.0003351**
treat_1# c.time_w11 1	**-.0015051**	**.0011259**	**-1.34**	**0.184**	**-.0037396**	**.0007294**
ethnic Non-Weste..	**-.0005726**	**.002925**	**-0.20**	**0.845**	**-.006378**	**.0052327**
treat_1# ethnic 1 # Non-Weste..	**-.0025804**	**.0038467**	**-0.67**	**0.504**	**-.010215**	**.0050542**
ethnic# c.time_w11 Non-Weste..	**-.0000736**	**.0000658**	**-1.12**	**0.266**	**-.0002042**	**.000057**
treat_1# ethnic# c.time_w11 1 # Non-Weste..	**.0007878**	**.0005531**	**1.42**	**0.158**	**-.0003099**	**.0018856**
_cons	**.1197685**	**.0053521**	**22.38**	**0.000**	**.1091461**	**.1303909**

120 eststo z14: reg meeting treat_1##c.time_w11##ethnic if sample == 1 & education > 3 &
> education!=., cluster(municip_id)

Linear regression

Number of obs	=	**3,000,960**
F(7, 97)	=	**98.55**
Prob > F	=	**0.0000**
R-squared	=	**0.0054**
Root MSE	=	**.30984**

(Std. err. adjusted for **98** clusters in **municip_id**)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	**-.0605356**	**.0074489**	**-8.13**	**0.000**	**-.0753197**	**-.0457515**
time_w11	**.0000944**	**.0000891**	**1.06**	**0.292**	**-.0000824**	**.0002712**
treat_1# c.time_w11 1	**-.0007445**	**.0017528**	**-0.42**	**0.672**	**-.0042233**	**.0027343**
ethnic Non-Weste..	**-.0013122**	**.0026055**	**-0.50**	**0.616**	**-.0064834**	**.003859**
treat_1# ethnic 1 # Non-Weste..	**-.0002045**	**.0034222**	**-0.06**	**0.952**	**-.0069967**	**.0065876**
ethnic# c.time_w11 Non-Weste..	**-.0000642**	**.0000493**	**-1.30**	**0.195**	**-.0001621**	**.0000336**
treat_1# ethnic# c.time_w11 1 # Non-Weste..	**.0006711**	**.0004836**	**1.39**	**0.168**	**-.0002887**	**.0016308**

_cons	.1214771	.0083704	14.51	0.000	.1048641	.13809

```
121 eststo z15: reg meeting treat_1##c.time_w11##ethnic if sample == 1 & employ_19 < 10,
  >  cluster(municip_id)
```

Linear regression

Number of obs	= 2,720,801
F(7, 97)	= 63.15
Prob > F	= 0.0000
R-squared	= 0.0044
Root MSE	= .31227

(Std. err. adjusted for 98 clusters in municip_id)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	-.047929	.0067498	-7.10	0.000	-.0613256	-.0345325
time_w11	-.0000917	.0000929	-0.99	0.326	-.0002762	.0000928
treat_1# c.time_w11 1	-.0014082	.0013055	-1.08	0.283	-.0039993	.0011829
ethnic Non-Weste..	-.0036269	.0029676	-1.22	0.225	-.0095167	.002263
treat_1# ethnic 1 # Non-Weste..	.0035032	.0043932	0.80	0.427	-.0052161	.0122226
ethnic# c.time_w11 Non-Weste..	-.0000772	.0000531	-1.45	0.150	-.0001826	.0000283
treat_1# ethnic# c.time_w11 1 # Non-Weste..	.0003524	.0004796	0.73	0.464	-.0005995	.0013043
_cons	.1161589	.0074106	15.67	0.000	.1014508	.130867

```
122 eststo z16: reg meeting treat_1##c.time_w22##ethnic if sample == 1 & industri_servic
  > e == 1, cluster(municip_id)
```

Linear regression

Number of obs	= 1,990,920
F(7, 97)	= 63.46
Prob > F	= 0.0000
R-squared	= 0.0056
Root MSE	= .30162

(Std. err. adjusted for 98 clusters in municip_id)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	-.0700071	.0078999	-8.86	0.000	-.0856863	-.0543279
time_w22	.0002319	.000052	4.46	0.000	.0001287	.0003351
treat_1# c.time_w22 1	-.0015051	.0011259	-1.34	0.184	-.0037396	.0007294
ethnic Non-Weste..	-.0013821	.0035552	-0.39	0.698	-.0084382	.0056741
treat_1# ethnic 1 #						

Non-Weste..	.0060859	.0066645	0.91	0.363	-.0071413	.019313
ethnic# c.time_w22						
Non-Weste..	-.0000736	.0000658	-1.12	0.266	-.0002042	.000057
treat_1# ethnic# c.time_w22						
1 # Non-Weste..	.0007878	.0005531	1.42	0.158	-.0003099	.0018856
_cons	.1223197	.0057101	21.42	0.000	.1109868	.1336526

```
123 eststo z17: reg meeting treat_1##c.time_w22##ethnic if sample == 1 & education > 3 &
>  education!=., cluster(municip_id)
```

Linear regression

Number of obs	= 3,000,960
F(7, 97)	= 98.55
Prob > F	= 0.0000
R-squared	= 0.0054
Root MSE	= .30984

(Std. err. adjusted for **98** clusters in **municip_id**)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	-.0687249	.0129695	-5.30	0.000	-.0944658	-.0429839
time_w22	.0000944	.0000891	1.06	0.292	-.0000824	.0002712
treat_1# c.time_w22						
1	-.0007445	.0017528	-0.42	0.672	-.0042233	.0027343
ethnic						
Non-Weste..	-.0020189	.003006	-0.67	0.503	-.0079849	.0039471
treat_1# ethnic						
1 # Non-Weste..	.007177	.0055238	1.30	0.197	-.0037861	.0181402
ethnic# c.time_w22						
Non-Weste..	-.0000642	.0000493	-1.30	0.195	-.0001621	.0000336
treat_1# ethnic# c.time_w22						
1 # Non-Weste..	.0006711	.0004836	1.39	0.168	-.0002887	.0016308
_cons	.1225155	.0091546	13.38	0.000	.104346	.1406849

```
124 eststo z18: reg meeting treat_1##c.time_w22##ethnic if sample == 1 & employ_19 < 10,
>  cluster(municip_id)
```

Linear regression

Number of obs	= 2,720,801
F(7, 97)	= 63.15
Prob > F	= 0.0000
R-squared	= 0.0044
Root MSE	= .31227

(Std. err. adjusted for **98** clusters in **municip_id**)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	**-.0634194**	**.0091965**	**-6.90**	**0.000**	**-.0816719**	**-.045167**
time_w22	**-.0000917**	**.0000929**	**-0.99**	**0.326**	**-.0002762**	**.0000928**
treat_1# c.time_w22 1	**-.0014082**	**.0013055**	**-1.08**	**0.283**	**-.0039993**	**.0011829**
ethnic Non-Weste..	**-.0044756**	**.0034019**	**-1.32**	**0.191**	**-.0112273**	**.0022762**
treat_1# ethnic 1 # Non-Weste..	**.0073796**	**.0058881**	**1.25**	**0.213**	**-.0043067**	**.0190659**
ethnic# c.time_w22 Non-Weste..	**-.0000772**	**.0000531**	**-1.45**	**0.150**	**-.0001826**	**.0000283**
treat_1# ethnic# c.time_w22 1 # Non-Weste..	**.0003524**	**.0004796**	**0.73**	**0.464**	**-.0005995**	**.0013043**
_cons	**.1151501**	**.0083075**	**13.86**	**0.000**	**.098662**	**.1316383**

```
125
126 esttab z13 z14 z15 using output\tab_J1_w11_restrict.rtf, replace obslast se b(3) sfm
  > t(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001) noomitted nobaselevels nogaps title(Tabel
  >  J1) varwidth(40)
  (output written to output\tab_J1_w11_restrict.rtf)

127 esttab z16 z17 z18 using output\tab_J1_w22_restrict.rtf, replace obslast se b(3) sfm
  > t(2) star(+ 0.10 * 0.05 ** 0.01 *** 0.001) noomitted nobaselevels nogaps title(Tabel
  >  J1) varwidth(40)
  (output written to output\tab_J1_w22_restrict.rtf)

128
129 *Table J2
130 eststo z19: reg meeting treat_1##industry_share_bi##ethnic if sample == 1 & industri
  > _service == 1, cluster(municip_id)

  Linear regression                               Number of obs     =  1,990,920
                                                  F(7, 97)          =      56.65
                                                  Prob > F          =     0.0000
                                                  R-squared         =     0.0058
                                                  Root MSE          =     .30159
```

(Std. err. adjusted for **98** clusters in **municip_id**)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	**-.0574185**	**.0039448**	**-14.56**	**0.000**	**-.0652478**	**-.0495892**
1.industry~i	**-.0131705**	**.0076385**	**-1.72**	**0.088**	**-.0283309**	**.0019898**
treat_1# industry_s~i 1 1	**.010031**	**.0058988**	**1.70**	**0.092**	**-.0016765**	**.0217386**
ethnic Non-Weste..	**.0042523**	**.0025731**	**1.65**	**0.102**	**-.0008545**	**.0093591**
treat_1# ethnic						

1 # Non-Weste..	-.0069913	.0032903	-2.12	0.036	-.0135217	-.0004608
industry_s~i# ethnic 1 # Non-Weste..	-.0024564	.0033977	-0.72	0.471	-.0091998	.0042871
treat_1# industry_s~i# ethnic 1 # 1 # Non-Weste..	.0094926	.0052345	1.81	0.073	-.0008965	.0198816
_cons	.1184609	.0040455	29.28	0.000	.1104316	.1264902

131 eststo z20: reg meeting treat_1##industry_share_bi##ethnic if sample == 1 & educatio
> n > 3 & education!=., cluster(municip_id)

Linear regression

Number of obs	=	3,000,960
F(7, 97)	=	70.79
Prob > F	=	0.0000
R-squared	=	0.0062
Root MSE	=	.30972

(Std. err. adjusted for 98 clusters in municip_id)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	-.0643723	.0048343	-13.32	0.000	-.0739671	-.0547775
1.industry~i	-.0194384	.0077397	-2.51	0.014	-.0347996	-.0040773
treat_1# industry_s~i 1 1	.0089795	.0069966	1.28	0.202	-.0049068	.0228657
ethnic Non-Weste..	.0005521	.0023198	0.24	0.812	-.004052	.0051563
treat_1# ethnic 1 # Non-Weste..	-.0005805	.0045003	-0.13	0.898	-.0095124	.0083515
industry_s~i# ethnic 1 # Non-Weste..	.0043442	.0031686	1.37	0.174	-.0019445	.010633
treat_1# industry_s~i# ethnic 1 # 1 # Non-Weste..	.0010748	.0054724	0.20	0.845	-.0097863	.0119359
_cons	.126157	.0060968	20.69	0.000	.1140566	.1382574

```
132 eststo z21: reg meeting treat_1##industry_share_bi##ethnic if sample == 1 & employ_1
  > 9 < 10, cluster(municip_id)

Linear regression                               Number of obs     =  2,720,801
                                                F(7, 97)          =      55.01
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0050
                                                Root MSE          =     .31219

                                (Std. err. adjusted for 98 clusters in municip_id)
------------------------------------------------------------------------------
             |               Robust
     meeting |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
   1.treat_1 |  -.0602605   .0048272   -12.48   0.000    -.0698411   -.0506798
1.industry~i |  -.0162562   .0074425    -2.18   0.031    -.0310275   -.0014849

     treat_1#|
industry_s~i|
        1 1  |   .0053449   .0088897     0.60   0.549    -.0122986    .0229884

      ethnic|
Non-Weste..  |   .0007371    .002786     0.26   0.792    -.0047924    .0062666

     treat_1#|
      ethnic|
        1 #  |
Non-Weste..  |  -.0033113   .0042283    -0.78   0.435    -.0117033    .0050808

industry_s~i#|
      ethnic|
        1 #  |
Non-Weste..  |   .0006578   .0037228     0.18   0.860     -.006731    .0080466

     treat_1#|
industry_s~i#|
      ethnic|
        1 #  |
        1 #  |
Non-Weste..  |   .0096033   .0071375     1.35   0.182    -.0045626    .0237692

       _cons |   .1251044   .0052178    23.98   0.000     .1147485    .1354603
------------------------------------------------------------------------------

133 eststo z22: reg meeting treat_2##industry_share_bi##ethnic if sample == 1 & industri
  > _service == 1, cluster(municip_id)

Linear regression                               Number of obs     =  2,591,309
                                                F(7, 97)          =       1.50
                                                Prob > F          =     0.1758
                                                R-squared         =     0.0004
                                                Root MSE          =     .30156

                                (Std. err. adjusted for 98 clusters in municip_id)
------------------------------------------------------------------------------
             |               Robust
     meeting |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
   1.treat_2 |  -.0015232   .0036772    -0.41   0.680    -.0088216    .0057751
1.industry~i |  -.0112129   .0082342    -1.36   0.176    -.0275554    .0051297

     treat_2#|
industry_s~i|
        1 1  |  -.0043059   .0062225    -0.69   0.491    -.0166559     .008044

      ethnic|
Non-Weste..  |    .002254   .0022244     1.01   0.313    -.0021608    .0066687

     treat_2#|
      ethnic|
        1 #  |
Non-Weste..  |   .0042228   .0035233     1.20   0.234      -.00277    .0112157
```

industry_s~i# ethnic 1 # Non-Weste..	-.0004664	.0033192	-0.14	0.889	-.0070541	.0061214
treat_2# industry_s~i# ethnic 1 # 1 # Non-Weste..	.0014335	.0043377	0.33	0.742	-.0071757	.0100426
_cons	.1060723	.0042499	24.96	0.000	.0976375	.1145072

134 eststo z23: reg meeting treat_2##industry_share_bi##ethnic if sample == 1 & educatio
> n > 3 & education!=., cluster(municip_id)

Linear regression

Number of obs	=	3,772,639
F(7, 97)	=	7.46
Prob > F	=	0.0000
R-squared	=	0.0010
Root MSE	=	.30827

(Std. err. adjusted for 98 clusters in municip_id)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_2	-.0082643	.0042913	-1.93	0.057	-.0167814	.0002527
1.industry~i	-.0181787	.0081705	-2.22	0.028	-.0343949	-.0019625
treat_2# industry_s~i 1 1	-.0030685	.0063778	-0.48	0.632	-.0157266	.0095896
ethnic Non-Weste..	.0003886	.002017	0.19	0.848	-.0036146	.0043918
treat_2# ethnic 1 # Non-Weste..	.0058655	.004577	1.28	0.203	-.0032186	.0149496
industry_s~i# ethnic 1 # Non-Weste..	.0044609	.0029936	1.49	0.139	-.0014806	.0104024
treat_2# industry_s~i# ethnic 1 # 1 # Non-Weste..	.0028676	.0049785	0.58	0.566	-.0070133	.0127485
_cons	.1153149	.0060259	19.14	0.000	.1033552	.1272746

```
135 eststo z24: reg meeting treat_2##industry_share_bi##ethnic if sample == 1 & employ_1
  > 9 < 10, cluster(municip_id)
```

Linear regression

Number of obs	=	**3,355,298**	
F(7, 97)	=	**3.75**	
Prob > F	=	**0.0012**	
R-squared	=	**0.0007**	
Root MSE	=	**.31056**	

(Std. err. adjusted for **98** clusters in **municip_id**)

meeting	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_2	**-.0100837**	**.00403**	**-2.50**	**0.014**	**-.0180821**	**-.0020854**
1.industry~i	**-.0155585**	**.008292**	**-1.88**	**0.064**	**-.0320157**	**.0008988**
treat_2# industry_s~i 1 1	**-.0010687**	**.0064564**	**-0.17**	**0.869**	**-.0138829**	**.0117455**
ethnic Non-Weste..	**.0003053**	**.0024055**	**0.13**	**0.899**	**-.004469**	**.0050796**
treat_2# ethnic 1 # Non-Weste..	**.0029366**	**.0032649**	**0.90**	**0.371**	**-.0035432**	**.0094164**
industry_s~i# ethnic 1 # Non-Weste..	**.0022414**	**.0034244**	**0.65**	**0.514**	**-.0045552**	**.009038**
treat_2# industry_s~i# ethnic 1 # 1 # Non-Weste..	**.0048701**	**.0048094**	**1.01**	**0.314**	**-.0046752**	**.0144155**
_cons	**.116044**	**.005056**	**22.95**	**0.000**	**.1060092**	**.1260788**

```
136
137 esttab z19 z20 z21 using output\tab_J2_w11_restrict.rtf, replace nobaselevels nogaps
  >  title(Tabel J2) se b(3) noomitted obslast varwidth(40) star(+ 0.10 * 0.05 ** 0.01 *
  > ** 0.001)
  (output written to output\tab_J2_w11_restrict.rtf)

138 esttab z22 z23 z24 using output\tab_J2_w22_restrict.rtf, replace nobaselevels nogaps
  >  title(Tabel J2) se b(3) noomitted obslast varwidth(40) star(+ 0.10 * 0.05 ** 0.01 *
  > ** 0.001)
  (output written to output\tab_J2_w22_restrict.rtf)

139
140
141 ********************************************************************************
142 *APPENDIX K: Activation Programs
143 ********************************************************************************
```

```
144
145 *Data
146 use "data/aggregate_main.dta", clear
  (DREAM29_Z                        )

147
148 *Figure K1
149 twoway (scatter activation_dk year_week if island == 0 & activation_dk <15 & clients
  > _dk >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_dk year_week if treat_1 == 0 & island == 0, lcolor(black) lwidth(
  > medthick)) || ///
  > lowess activation_dk year_week if treat_1 == 1 & island == 0, lcolor(black) lwidth(m
  > edthick)  || ///
  > lowess activation_dk year_week if treat_2 == 1 & island == 0, lcolor(black) lwidth(m
  > edthick) || ///
  > (scatter activation_ethnic year_week if island == 0 & activation_ethnic <15 & client
  > s_ethnic >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_ethnic  year_week if treat_1 == 0 & island == 0 & clients_ethnic
  > > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) ) || ///
  > lowess activation_ethnic  year_week if treat_1 == 1 & island == 0 & clients_ethnic >
  >  10, lcolor(black) lwidth(medthick) lpattern(shortdash)  || ///
  > lowess activation_ethnic  year_week if treat_2 == 1 & island == 0 & clients_ethnic >
  >  10, lcolor(black) lwidth(medthick) lpattern(shortdash)  ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ylabel(, labsize(small) n
  > ogrid) xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("", size(medium) color(black) margin(b=3)) graphregion(color(white)) ytitle("A
  > verage activation programs", size(medium)) ///
  > xtitle("Year, week", size(medium)) recast(line) legend(cols(2) rows(1) position(6) o
  > rder(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7)) ysc(titl
  > egap(+3)) ///
  > || (pcarrowi 0.40 3125 0.40 3130 (9) "Lockdown" 0.50 3145 0.50 3141 (3) "Reopening",
  >  color(black) mlabcolor(black))

150 graph display, ysize(4) xsize(6)

151 qui graph export "output\fig_K1_activation.png", replace

152
153 *Figure K2
154 *Low exposure
155 twoway (scatter activation_dk year_week if industry_share_bi ==0 & activation_dk <0.
  > 6 & clients_dk >10, msymbol(p) mcolor(gs10)) ///
  > || (lowess activation_dk year_week if treat_1 == 0 & industry_share_bi ==0, lcolor(b
  > lack) lwidth(medthick)) ///
  > || lowess activation_dk year_week if treat_1 == 1 & industry_share_bi ==0, lcolor(bl
  > ack) lwidth(medthick) ///
  > || lowess activation_dk year_week if treat_2 == 1 & industry_share_bi ==0, lcolor(bl
  > ack) lwidth(medthick) ///
  > || (scatter activation_ethnic year_week if industry_share_bi ==0 & activation_ethnic
  >  <0.6 & clients_ethnic >10, msymbol(p) mcolor(gs16)) ///
  > || (lowess activation_ethnic year_week if treat_1 == 0 & industry_share_bi ==0, lcol
  > or(black) lpattern(shortdash) lwidth(medthick)) ///
  > || lowess activation_ethnic year_week if treat_1 == 1 & industry_share_bi ==0, lcolo
  > r(black) lpattern(shortdash) lwidth(medthick) ///
  > || lowess activation_ethnic year_week if treat_2 == 1 & industry_share_bi ==0, lcolo
  > r(black) lpattern(shortdash) lwidth(medthick) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0.0(0.2)0.6, labsize(small) nogrid) ///
  > xlabel(3068 3097 3126 3155, labsize(small) nogrid)  ///
  > title("{bf:(a) Low exposure}", size(medium) color(black) margin(b=3)) ///
  > graphregion(color(white)) ytitle("Average activation programs", size(medium)) ///
  > xtitle("Year, week", size(medium)) ///
  > recast(line) ///
  > ysc(titlegap(+3)) ///
  > legend(cols(2) rows(1) position(6) order(2 "Danish majority" 6 "Non-western minority
  > ") size(small) symxsize(7)) ///
  > || (pcarrowi 0.4 3125 0.4 3130 (9) "Lockdown" 0.50 3145 0.50 3141 (3) "Reopening", c
  > olor(black) mlabcolor(black)), ///
  > saving(output\did_low_industri_bi.gph, replace)
  file output\did_low_industri_bi.gph saved
```

```
156
157 *High exposure
158 twoway (scatter activation_dk year_week if industry_share_bi ==1 & activation_dk <0.
  > 6 & clients_dk >10, msymbol(p) mcolor(gs10)) ///
  > || (lowess activation_dk year_week if treat_1 == 0 & industry_share_bi ==1, lcolor(b
  > lack) lwidth(medthick)) ///
  > || lowess activation_dk year_week if treat_1 == 1 & industry_share_bi ==1, lcolor(bl
  > ack) lwidth(medthick) ///
  > || lowess activation_dk year_week if treat_2 == 1 & industry_share_bi ==1, lcolor(bl
  > ack) lwidth(medthick) ///
  > || (scatter activation_ethnic year_week if industry_share_bi ==1 & activation_ethnic
  >  <0.6 & clients_ethnic >10, msymbol(p) mcolor(gs16)) ///
  > || (lowess activation_ethnic year_week if treat_1 == 0 & industry_share_bi ==1, lcol
  > or(black) lpattern(shortdash) lwidth(medthick)) ///
  > || lowess activation_ethnic year_week if treat_1 == 1 & industry_share_bi ==1, lcolo
  > r(black) lpattern(shortdash) lwidth(medthick) ///
  > || lowess activation_ethnic year_week if treat_2 == 1 & industry_share_bi ==1, lcolo
  > r(black) lpattern(shortdash) lwidth(medthick) ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ///
  > ylabel(0.0(0.2)0.6, labsize(small) nogrid) ///
  > xlabel(3068 3097 3126 3155, labsize(small) nogrid)  ///
  > title("{bf:(b) High exposure}", size(medium) color(black) margin(b=3)) ///
  > graphregion(color(white)) ytitle("", size(medium)) ///
  > xtitle("Year, week", size(medium)) ///
  > recast(line) ///
  > ysc(titlegap(+3)) ///
  > legend(cols(2) rows(1) position(6) order(2 "Danish majority" 6 "Non-western minority
  > ") size(small) symxsize(7)) ///
  > || (pcarrowi 0.40 3125 0.40 3130 (9) "Lockdown" 0.50 3145 0.50 3141 (3) "Reopening",
  >  color(black) mlabcolor(black)), ///
  > saving(output\did_high_industri_bi.gph, replace)
  file output\did_high_industri_bi.gph saved

159
160 grc1leg output\did_low_industri_bi.gph output\did_high_industri_bi.gph, graphregion(
  > color(white)) ycommon

161 graph display, ysize(4) xsize(6)

162 qui graph export "output\fig_K2_activation.png", replace

163
164 *Figure K3
165 *Internships
166 twoway (scatter activation_internship_dk year_week if island == 0 & activation_inter
  > nship_dk <0.3 & clients_dk >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_internship_dk year_week if treat_1 == 0 & island == 0, lcolor(bla
  > ck) lwidth(medthick)) || ///
  > lowess activation_internship_dk year_week if treat_1 == 1 & island == 0, lcolor(blac
  > k) lwidth(medthick)  || ///
  > lowess activation_internship_dk year_week if treat_2 == 1 & island == 0, lcolor(blac
  > k) lwidth(medthick) || ///
  > (scatter activation_internship_ethnic year_week if island == 0 & activation_internsh
  > ip_ethnic <0.3 & clients_ethnic >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_internship_ethnic year_week if treat_1 == 0 & island == 0 & clien
  > ts_ethnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) ) || ///
  > lowess activation_internship_ethnic year_week if treat_1 == 1 & island == 0 & client
  > s_ethnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash)  || ///
  > lowess activation_internship_ethnic year_week if treat_2 == 1 & island == 0 & client
  > s_ethnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash)  ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ylabel(, labsize(small) n
  > ogrid) xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("Internships", size(medium) color(black) margin(b=3)) graphregion(color(white)
  > ) ytitle("Average activation programs", size(medium)) ///
  > xtitle("Year, week", size(medium)) recast(line) legend(cols(2) rows(1) position(6) o
  > rder(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7)) ysc(titl
  > egap(+3)) ///
  > || (pcarrowi 0.20 3125 0.20 3130 (9) "Lockdown" 0.25 3145 0.25 3141 (3) "Reopening",
  >  color(black) mlabcolor(black)), saving(output\internship.gph, replace)
  file output\internship.gph saved
```

```
167 graph display, ysize(4) xsize(6)

168
169 *Skill devellopment
170 twoway (scatter activation_skills_dk year_week if island == 0 & activation_skills_dk
  >  <0.6 & clients_dk >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_skills_dk year_week if treat_1 == 0 & island == 0, lcolor(black)
  > lwidth(medthick)) || ///
  > lowess activation_skills_dk year_week if treat_1 == 1 & island == 0, lcolor(black) l
  > width(medthick)  || ///
  > lowess activation_skills_dk year_week if treat_2 == 1 & island == 0, lcolor(black) l
  > width(medthick) || ///
  > (scatter activation_skills_ethnic year_week if island == 0 & activation_skills_ethni
  > c <0.6 & clients_ethnic >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_skills_ethnic year_week if treat_1 == 0 & island == 0 & clients_e
  > thnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) ) || ///
  > lowess activation_skills_ethnic year_week if treat_1 == 1 & island == 0 & clients_et
  > hnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash)  || ///
  > lowess activation_skills_ethnic year_week if treat_2 == 1 & island == 0 & clients_et
  > hnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash)  ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ylabel(, labsize(small) n
  > ogrid) xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("Skill Devellopment", size(medium) color(black) margin(b=3)) graphregion(color
  > (white)) ytitle("", size(medium)) ///
  > xtitle("Year, week", size(medium)) recast(line) legend(cols(2) rows(1) position(6) o
  > rder(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7)) ysc(titl
  > egap(+3)) ///
  > || (pcarrowi 0.40 3125 0.40 3130 (9) "Lockdown" 0.50 3145 0.50 3141 (3) "Reopening",
  >  color(black) mlabcolor(black)), saving(output\skills.gph, replace)
  file output\skills.gph saved

171 graph display, ysize(4) xsize(6)

172
173 *Education
174 twoway (scatter activation_education_dk year_week if island == 0 & activation_educat
  > ion_dk <0.3 & clients_dk >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_education_dk year_week if treat_1 == 0 & island == 0, lcolor(blac
  > k) lwidth(medthick)) || ///
  > lowess activation_education_dk year_week if treat_1 == 1 & island == 0, lcolor(black
  > ) lwidth(medthick)  || ///
  > lowess activation_education_dk year_week if treat_2 == 1 & island == 0, lcolor(black
  > ) lwidth(medthick) || ///
  > (scatter activation_education_ethnic year_week if island == 0 & activation_education
  > _ethnic <0.3 & clients_ethnic >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_education_ethnic year_week if treat_1 == 0 & island == 0 & client
  > s_ethnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) ) || ///
  > lowess activation_education_ethnic year_week if treat_1 == 1 & island == 0 & clients
  > _ethnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash)  || ///
  > lowess activation_education_ethnic year_week if treat_2 == 1 & island == 0 & clients
  > _ethnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash)  ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ylabel(, labsize(small) n
  > ogrid) xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("Ordinary Education", size(medium) color(black) margin(b=3)) graphregion(color
  > (white)) ytitle("Average activation programs", size(medium)) ///
  > xtitle("Year, week", size(medium)) recast(line) legend(cols(2) rows(1) position(6) o
  > rder(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7)) ysc(titl
  > egap(+3)) ///
  > || (pcarrowi 0.15 3125 0.15 3130 (9) "Lockdown" 0.20 3145 0.20 3141 (3) "Reopening",
  >  color(black) mlabcolor(black)), saving(output\education.gph, replace)
  file output\education.gph saved
```

```
175 graph display, ysize(4) xsize(6)

176
177 *Wage subsidies
178 twoway (scatter activation_subsidy_dk year_week if island == 0 & activation_subsidy_
  > dk <0.7 & clients_dk >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_subsidy_dk year_week if treat_1 == 0 & island == 0, lcolor(black)
  >  lwidth(medthick)) || ///
  > lowess activation_subsidy_dk year_week if treat_1 == 1 & island == 0, lcolor(black)
  > lwidth(medthick)  || ///
  > lowess activation_subsidy_dk year_week if treat_2 == 1 & island == 0, lcolor(black)
  > lwidth(medthick) || ///
  > (scatter activation_subsidy_ethnic year_week if island == 0 & activation_subsidy_eth
  > nic <0.7 & clients_ethnic >10, msymbol(p) mcolor(gs10)) || ///
  > (lowess activation_subsidy_ethnic year_week if treat_1 == 0 & island == 0 & clients_
  > ethnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash) ) || ///
  > lowess activation_subsidy_ethnic year_week if treat_1 == 1 & island == 0 & clients_e
  > thnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash)  || ///
  > lowess activation_subsidy_ethnic year_week if treat_2 == 1 & island == 0 & clients_e
  > thnic > 10, lcolor(black) lwidth(medthick) lpattern(shortdash)  ///
  > xline(3130 3141, lcolor(black*0.8) lp(dash) lwidth(vthin)) ylabel(, labsize(small) n
  > ogrid) xlabel(3068 3097 3126 3155, labsize(small) nogrid) ///
  > title("Wage Subsidies", size(medium) color(black) margin(b=3)) graphregion(color(whi
  > te)) ytitle("", size(medium)) ///
  > xtitle("Year, week", size(medium)) recast(line) legend(cols(2) rows(1) position(6) o
  > rder(2 "Danish majority" 6 "Non-western minority") size(small) symxsize(7)) ysc(titl
  > egap(+3)) ///
  > || (pcarrowi 0.10 3125 0.10 3130 (9) "Lockdown" 0.14 3145 0.14 3141 (3) "Reopening",
  >  color(black) mlabcolor(black)), saving(output\subsidy.gph, replace)
  file output\subsidy.gph saved

179 graph display, ysize(4) xsize(6)

180
181 grc1leg output\internship.gph output\skills.gph output\education.gph output\subsidy.
  > gph, graphregion(color(white))

182 graph display, ysize(4) xsize(6)

183 qui graph export "output\fig_K3_activation.png", replace

184
185
186 *Data
187 use "data/micro_main.dta", clear
  (DREAM29_Z                        )

188
189 *Table K1
190 eststo a1: reg activation treat_1##c.time_w11##ethnic if sample == 1, cluster(munici
  > p_id)

  Linear regression                               Number of obs     =  6,396,780
                                                  F(7, 97)          =     105.40
                                                  Prob > F          =     0.0000
                                                  R-squared         =     0.0142
                                                  Root MSE          =      .3659

                                (Std. err. adjusted for 98 clusters in municip_id)
------------------------------------------------------------------------------
             |               Robust
  activation |  Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
   1.treat_1 |  -.0426213   .0023774   -17.93   0.000    -.0473398   -.0379027
    time_w11 |  -.0005121   .0001198    -4.27   0.000    -.0007499   -.0002743
             |
     treat_1#|
  c.time_w11 |
          1  |  -.0076039   .0004147   -18.33   0.000     -.008427   -.0067808
             |
      ethnic |
Non-Weste..  |   .0246604   .0099134     2.49   0.015      .004985    .0443357
```

treat_1# ethnic 1 # Non-Weste..	-.0094018	.0058891	-1.60	0.114	-.0210901	.0022865
ethnic# c.time_w11 Non-Weste..	-.0000689	.0001402	-0.49	0.624	-.0003471	.0002093
treat_1# ethnic# c.time_w11 1 # Non-Weste..	-.001566	.0006284	-2.49	0.014	-.0028132	-.0003189
_cons	.1626565	.0061056	26.64	0.000	.1505385	.1747745

191 eststo a2: reg activation treat_1##c.time_w11##ethnic spell_seq c.education c.gender
> age sick_19 employ_19 if sample == 1, cluster(municip_id)

Linear regression

Number of obs	= 6,277,441
F(13, 97)	= 169.70
Prob > F	= 0.0000
R-squared	= 0.0539
Root MSE	= .35867

(Std. err. adjusted for **98** clusters in **municip_id**)

activation	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	-.0182761	.0023677	-7.72	0.000	-.0229754	-.0135769
time_w11	-.0016033	.0001211	-13.24	0.000	-.0018437	-.001363
treat_1# c.time_w11 1	-.0069713	.0004036	-17.27	0.000	-.0077723	-.0061702
ethnic Non-Weste..	-.0043524	.0088923	-0.49	0.626	-.0220012	.0132964
treat_1# ethnic 1 # Non-Weste..	.0012359	.0053523	0.23	0.818	-.0093868	.0118587
ethnic# c.time_w11 Non-Weste..	-.0004275	.0001232	-3.47	0.001	-.0006719	-.000183
treat_1# ethnic# c.time_w11 1 # Non-Weste..	-.0013333	.0006324	-2.11	0.038	-.0025885	-.0000781
spell_seq	.0047118	.0002142	22.00	0.000	.0042866	.0051369
education	-.0025941	.0009236	-2.81	0.006	-.0044272	-.0007611
gender	-.0221645	.0017185	-12.90	0.000	-.0255753	-.0187538
age	-.0005898	.0001265	-4.66	0.000	-.0008407	-.0003388
sick_19	-.0028937	.0002217	-13.05	0.000	-.0033338	-.0024536
employ_19	-.0011325	.0001199	-9.44	0.000	-.0013706	-.0008945
_cons	.1364228	.0075765	18.01	0.000	.1213854	.1514601

```
192 eststo a3: reg activation treat_2##c.time_w22##ethnic if sample == 1, cluster(munici
  > p_id)
```

Linear regression

Number of obs	= **8,122,908**
F(7, 97)	= **83.54**
Prob > F	= **0.0000**
R-squared	= **0.0162**
Root MSE	= **.35002**

(Std. err. adjusted for **98** clusters in **municip_id**)

activation	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_2	**-.050042**	**.0028458**	**-17.58**	**0.000**	**-.0556902**	**-.0443938**
time_w22	**-.0015062**	**.0001292**	**-11.66**	**0.000**	**-.0017626**	**-.0012498**
treat_2# c.time_w22 1	**.0054544**	**.0004634**	**11.77**	**0.000**	**.0045347**	**.0063741**
ethnic Non-Weste..	**.0114397**	**.0065731**	**1.74**	**0.085**	**-.001606**	**.0244855**
treat_2# ethnic 1 # Non-Weste..	**-.0151334**	**.0054965**	**-2.75**	**0.007**	**-.0260425**	**-.0042243**
ethnic# c.time_w22 Non-Weste..	**-.0003158**	**.0001214**	**-2.60**	**0.011**	**-.0005568**	**-.0000748**
treat_2# ethnic# c.time_w22 1 # Non-Weste..	**.0026218**	**.0007169**	**3.66**	**0.000**	**.001199**	**.0040447**
_cons	**.1063151**	**.0057579**	**18.46**	**0.000**	**.0948874**	**.1177429**

```
193 eststo a4: reg activation treat_2##c.time_w22##ethnic spell_seq c.education c.gender
  >  age sick_19 employ_19 if sample == 1, cluster(municip_id)
```

Linear regression

Number of obs	= **7,978,886**
F(13, 97)	= **152.51**
Prob > F	= **0.0000**
R-squared	= **0.0529**
Root MSE	= **.34359**

(Std. err. adjusted for **98** clusters in **municip_id**)

activation	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_2	**-.0471221**	**.0029647**	**-15.89**	**0.000**	**-.0530061**	**-.041238**
time_w22	**-.0020747**	**.0001264**	**-16.41**	**0.000**	**-.0023256**	**-.0018237**
treat_2# c.time_w22 1	**.0058775**	**.0004581**	**12.83**	**0.000**	**.0049684**	**.0067866**
ethnic Non-Weste..	**-.008873**	**.0056735**	**-1.56**	**0.121**	**-.0201334**	**.0023874**
treat_2# ethnic 1 # Non-Weste..	**-.0091573**	**.0052422**	**-1.75**	**0.084**	**-.0195617**	**.0012471**
ethnic#						

c.time_w22 Non-Weste..	-.0004717	.0001135	-4.16	0.000	-.000697	-.0002465
treat_2# ethnic# c.time_w22 1 # Non-Weste..	.001795	.000707	2.54	0.013	.0003918	.0031981
spell_seq	.0037146	.0001901	19.54	0.000	.0033372	.004092
education	-.00155	.0009202	-1.68	0.095	-.0033762	.0002763
gender	-.0182448	.0015933	-11.45	0.000	-.0214072	-.0150825
age	-.0004287	.0001233	-3.48	0.001	-.0006734	-.000184
sick_19	-.0024383	.000197	-12.38	0.000	-.0028293	-.0020472
employ_19	-.0011532	.0001139	-10.12	0.000	-.0013793	-.0009271
_cons	.0930092	.0063909	14.55	0.000	.0803251	.1056932

```
194
195 esttab a1 a2 using output\tab_K1_its_w11.rtf, replace obslast se b(3) sfmt(2) star(+
  >  0.10 * 0.05 ** 0.01 *** 0.001) noomitted nobaselevels nogaps title() varwidth(40)
  (output written to output\tab_K1_its_w11.rtf)

196 esttab a3 a4 using output\tab_K1_its_w22.rtf, replace obslast se b(3) sfmt(2) star(+
  >  0.10 * 0.05 ** 0.01 *** 0.001) noomitted nobaselevels nogaps title() varwidth(40)
  (output written to output\tab_K1_its_w22.rtf)

197
198 *Table K2
199 eststo b1: reg activation treat_1##industry_share_bi##ethnic if sample == 1, cluster
  > (municip_id)

Linear regression                               Number of obs     =  6,396,780
                                                F(7, 97)          =     111.75
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0127
                                                Root MSE          =     .36617

                                  (Std. err. adjusted for 98 clusters in municip_id)
```

activation	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_1	-.0963771	.0072799	-13.24	0.000	-.1108256	-.0819285
1.industry~i	.0020788	.0108782	0.19	0.849	-.0195115	.023669
treat_1# industry_s~i 1 1	-.0105153	.0095901	-1.10	0.276	-.029549	.0085184
ethnic Non-Weste..	.0200856	.0145385	1.38	0.170	-.0087694	.0489406
treat_1# ethnic 1 # Non-Weste..	-.0180594	.0125318	-1.44	0.153	-.0429316	.0068127
industry_s~i# ethnic 1 # Non-Weste..	.0126534	.0179556	0.70	0.483	-.0229835	.0482902
treat_1# industry_s~i# ethnic 1 # 1 # Non-Weste..	-.0015783	.0139481	-0.11	0.910	-.0292613	.0261048
_cons	.1778109	.0084658	21.00	0.000	.1610086	.1946131

```
200 eststo b2: reg activation treat_1##industry_share_bi##ethnic spell_seq c.education c
  > .gender age sick_19 employ_19 if sample == 1, cluster(municip_id)

Linear regression                               Number of obs     =  6,277,441
                                                F(13, 97)         =     180.53
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0482
                                                Root MSE          =     .35976

                                  (Std. err. adjusted for 98 clusters in municip_id)
------------------------------------------------------------------------------
             |               Robust
  activation | Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
   1.treat_1 |  -.1010518   .0062055   -16.28   0.000    -.1133681   -.0887355
1.industry~i |   .0013892   .0113445     0.12   0.903    -.0211264    .0239049

     treat_1#|
industry_s~i|
        1 1  |  -.0094176   .0098031    -0.96   0.339     -.028874    .0100389

      ethnic|
Non-Weste..  |   .0027702   .0146926     0.19   0.851    -.0263906     .031931

     treat_1#|
      ethnic|
        1 #  |
Non-Weste..  |  -.0204676   .0116928    -1.75   0.083    -.0436745    .0027393

industry_s~i#|
      ethnic|
        1 #  |
Non-Weste..  |   .0134466   .0178581     0.75   0.453    -.0219967    .0488899

     treat_1#|
industry_s~i#|
      ethnic|
        1 #  |
        1 #  |
Non-Weste..  |   .0017233   .0135203     0.13   0.899    -.0251107    .0285573

   spell_seq |   .0039082   .0002045    19.12   0.000     .0035025     .004314
   education |  -.0024922   .0009373    -2.66   0.009    -.0043525   -.0006318
      gender |  -.0214043   .0017687   -12.10   0.000    -.0249147    -.017894
         age |  -.0005387   .0001255    -4.29   0.000    -.0007878   -.0002895
    sick_19  |  -.0029693   .0002336   -12.71   0.000     -.003433   -.0025056
   employ_19 |  -.0015014   .0001442   -10.41   0.000    -.0017877   -.0012151
       _cons |    .200084   .0122434    16.34   0.000     .1757844    .2243837
------------------------------------------------------------------------------

201 eststo b3: reg activation treat_2##industry_share_bi##ethnic if sample == 1, cluster
  > (municip_id)

Linear regression                               Number of obs     =  8,122,908
                                                F(7, 97)          =      85.60
                                                Prob > F          =     0.0000
                                                R-squared         =     0.0083
                                                Root MSE          =     .35141

                                  (Std. err. adjusted for 98 clusters in municip_id)
------------------------------------------------------------------------------
             |               Robust
  activation | Coefficient  std. err.      t    P>|t|     [95% conf. interval]
-------------+----------------------------------------------------------------
   1.treat_2 |  -.0769168   .0072629   -10.59   0.000    -.0913317   -.0625019
1.industry~i |  -.0000557   .0097642    -0.01   0.995     -.019435    .0193235

     treat_2#|
industry_s~i|
        1 1  |   .0037173   .0086148     0.43   0.667    -.0133807    .0208153
```

ethnic						
Non-Weste..	.0161411	.0122071	1.32	0.189	-.0080866	.0403687
treat_2# ethnic						
1 #						
Non-Weste..	-.0053719	.0086336	-0.62	0.535	-.0225072	.0117635
industry_s~i# ethnic						
1 #						
Non-Weste..	.0121407	.015647	0.78	0.440	-.0189143	.0431957
treat_2# industry_s~i# ethnic						
1 #						
1 #						
Non-Weste..	-.0100646	.0099354	-1.01	0.314	-.0297835	.0096543
_cons	.1592486	.0076769	20.74	0.000	.1440121	.1744852

202 eststo b4: reg activation treat_2##industry_share_bi##ethnic spell_seq c.education c
> .gender age sick_19 employ_19 if sample == 1, cluster(municip_id)

Linear regression

Number of obs	=	7,978,886
F(13, 97)	=	170.50
Prob > F	=	0.0000
R-squared	=	0.0404
Root MSE	=	.34584

(Std. err. adjusted for 98 clusters in municip_id)

activation	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
1.treat_2	-.084062	.0063417	-13.26	0.000	-.0966486	-.0714755
1.industry~i	-.000658	.0104187	-0.06	0.950	-.0213364	.0200203
treat_2# industry_s~i						
1 1	.0043132	.0084562	0.51	0.611	-.0124701	.0210965
ethnic						
Non-Weste..	.001297	.0122749	0.11	0.916	-.0230652	.0256593
treat_2# ethnic						
1 #						
Non-Weste..	-.010407	.0085418	-1.22	0.226	-.0273601	.006546
industry_s~i# ethnic						
1 #						
Non-Weste..	.0133211	.0153011	0.87	0.386	-.0170473	.0436896
treat_2# industry_s~i# ethnic						
1 #						
1 #						
Non-Weste..	-.0069125	.0100068	-0.69	0.491	-.0267732	.0129482
spell_seq	.00277	.0001838	15.07	0.000	.0024052	.0031347
education	-.001143	.0009412	-1.21	0.228	-.0030111	.0007251
gender	-.0171726	.0016882	-10.17	0.000	-.0205232	-.0138219
age	-.0003028	.0001217	-2.49	0.015	-.0005444	-.0000612
sick_19	-.0026561	.0002135	-12.44	0.000	-.0030798	-.0022325
employ_19	-.0018117	.0001516	-11.95	0.000	-.0021125	-.0015108
_cons	.1852368	.0113976	16.25	0.000	.1626158	.2078578

```
203
204 esttab b1 b2 using output\tab_K2_did_w11.rtf, replace nobaselevels nogaps title() se
  >  b(3) noomitted obslast varwidth(40) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
  (output written to output\tab_K2_did_w11.rtf)

205 esttab b3 b4 using output\tab_K2_did_w22.rtf, replace nobaselevels nogaps title() se
  >  b(3) noomitted obslast varwidth(40) star(+ 0.10 * 0.05 ** 0.01 *** 0.001)
  (output written to output\tab_K2_did_w22.rtf)

206
207
208 ********************************************************************************
209 *APPENDIX L: Ethnicity and Unemployment Duration
210 ********************************************************************************
211
212 *Data
213 use "data/micro_duration.dta", clear
  (DREAM29_Z                       )

214
215 *Figure L1: Ethnicity and Unemployment Duration
216 stset spell, failure(failure==1) //Declare data to be survival data

  Survival-time data settings

          Failure event: failure==1
  Observed time interval: (0, spell]
       Exit on or before: failure

------------------------------------------------------------------------------
     37,189  total observations
          0  exclusions
------------------------------------------------------------------------------
     37,189  observations remaining, representing
     27,801  failures in single-record/single-failure data
    524,186  total analysis time at risk and under observation
                                            At risk from t =         0
                                 Earliest observed entry t =         0
                                      Last observed exit t =        30

217 sts test ethnicity, logrank //Conducts log-rank test

        Failure _d: failure==1
  Analysis time _t: spell

  Equality of survivor functions
  Log-rank test

                     |  Observed       Expected
  ethnicity          |    events         events
---------------------+--------------------------
       Danish majority |     25033       24002.02
  Non-Western minority |      2768        3798.98
---------------------+--------------------------
                 Total |     27801       27801.00

                           chi2(1) =  344.52
                           Pr>chi2 =  0.0000
```

```
218 stcox i.ethnicity //Calculates the hazard ratios

          Failure _d: failure==1
    Analysis time _t: spell

  Iteration 0:  Log likelihood = -278471.63
  Iteration 1:  Log likelihood = -278297.29
  Iteration 2:  Log likelihood = -278294.81
  Iteration 3:  Log likelihood = -278294.81
  Refining estimates:
  Iteration 0:  Log likelihood = -278294.81

  Cox regression with Breslow method for ties

  No. of subjects =  37,189                         Number of obs = 37,189
  No. of failures =  27,801
  Time at risk    = 524,186
                                                    LR chi2(1)    = 353.64
  Log likelihood = -278294.81                       Prob > chi2   = 0.0000

------------------------------------------------------------------------------
          _t | Haz. ratio   Std. err.      z    P>|z|     [95% conf. interval]
-------------+----------------------------------------------------------------
   ethnicity |
Non-Weste..  |   .6980965   .0139956   -17.93   0.000     .6711975    .7260734
------------------------------------------------------------------------------

219
220 sts graph, by(ethnicity) graphregion(color(white)) plot1opts(color(gs15) lstyle(soli
  > d))  ///
  > ytitle("Propability of staying unemployed", size(medium)) xtitle("Weeks to event", s
  > ize(medium)) ///
  > legend(order(1 "Danish majority" 2 "Non-western minority") ring(0) pos(2) col(1) reg
  > ion(lstyle(none)) symxsize(5)) ///
  > xlabel(1(4)30, labsize(small) nogrid) ylabel(0(0.2)1, labsize(small) nogrid) ///
  > title("", size(medium) color(black)) xsc(titlegap(+1)) ysc(titlegap(+3)) ///
  > note("Hazard ratio, 0.70 (0.66-0.73)" "P=0.00 by log-rank test", ring(0) margin(medi
  > um))

          Failure _d: failure==1
    Analysis time _t: spell

221 qui graph export "output\fig_7_survival.png", replace

222
223 ********************************************************************************
224
225 log close
         name:  <unnamed>
          log:  E:\workdata\708030\JOP_article\log_appendix.smcl
     log type:  smcl
    closed on:  23 May 2024, 16:46:54
-------------------------------------------------------------------------------
```