

Appendix B: Sectoral effects

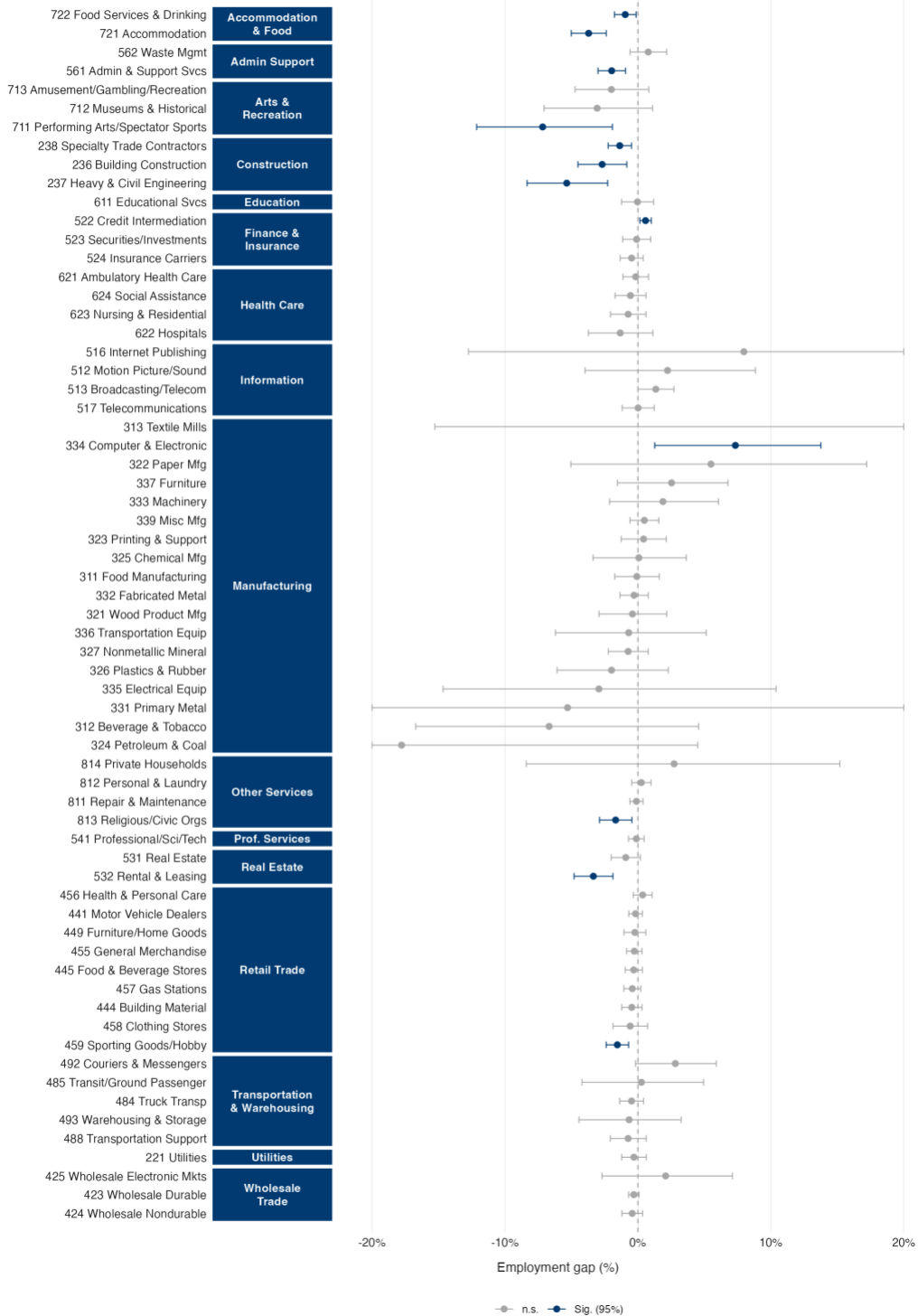
The headline ATT captures aggregate employment dynamics. Where these job losses fall across the NAICS-2 sectors is informative: If enforcement simply removed immigrant workers in proportion to where they already worked, sectoral losses should track each sector's immigrant share. Departures from that benchmark may point to demand spillovers or sector-specific enforcement intensity.

We first perform the same Callaway Sant'Anna DiD, but on total employment by 2 and 3-digit NAICS sectors and find the aggregate post estimate for each sector. We don't include agriculture or mining because of the relative non-presence of the two sectors in metro areas.

For details, turn to the following pages.

Detailed industry effects, grouped by sector

Estimated employment effect for each detailed industry (95% CI). Industries with fewer than 30 treated metros or median <25 jobs/CBSA-month dropped



Under uniform removal by sector (every sector loses the same fraction of its likely undocumented workforce), a sector's expected log-employment decline is its likely undocumented share S_s scaled by the panel-wide ratio aggregate ATT \bar{T} to pooled likely undocumented share (across CBSAs in our sample) \bar{S} :

$$ATT_s^{exp} = \bar{T} * \frac{S_s}{\bar{S}}$$

A sector's deviation from this benchmark is:

$$D_s = ATT_s^{obs} - ATT_s^{exp}$$

If D_s is less than 0, it would imply that the sector lost more jobs than uniform removal would predict, consistent with concentrated enforcement, deeper labor-demand spillovers, or harder-to-substitute labor.

Sectoral effects vs. likely-undocumented benchmark						
NAICS2 Sector	Likely-undocumented share	Likely-undocumented intensity (vs. all sectors)	Observed ATT	Expected ATT	Deviation	
71 Arts/Entertainment	6.29%	0.62	-3.27%	-0.46%	-2.82%	
53 Real Estate	2.08%	0.20	-1.43%	-0.15%	-1.28%	
23 Construction	26.68%	2.62	-2.17%	-1.93%	-0.24%	
22 Utilities	3.93%	0.39	-0.30%	-0.28%	-0.02%	
72 Accommodation/Food	18.00%	1.77	-1.30%	-1.30%	0.00%	
44-45 Retail Trade	9.79%	0.96	-0.51%	-0.71%	0.19%	
54 Professional Svcs	4.45%	0.44	-0.12%	-0.32%	0.20%	
51 Information	3.05%	0.30	-0.02%	-0.22%	0.20%	
61 Education Svcs	3.28%	0.32	-0.03%	-0.24%	0.20%	
62 Health/Social	7.09%	0.70	-0.21%	-0.51%	0.30%	
56 Admin/Waste Svcs	29.11%	2.86	-1.77%	-2.11%	0.33%	
52 Finance/Insurance	4.23%	0.42	0.13%	-0.31%	0.44%	
42 Wholesale Trade	12.29%	1.21	-0.39%	-0.89%	0.50%	
31-33 Manufacturing	12.87%	1.26	-0.38%	-0.93%	0.55%	
48-49 Transportation/Warehousing	16.14%	1.59	-0.51%	-1.17%	0.66%	
81 Other Services	17.21%	1.69	-0.53%	-1.25%	0.72%	

Likely-undocumented = foreign-born adults age 20–64 with at most a high-school education.