



# **COVID-19 and Employment Losses Among Workers with Disabilities: An Intersectional Approach**

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# Introduction

- Social and economic losses due to Covid-19 around globe
  - Disproportionately borne by women, minorities, low-income groups
- Before pandemic: large disability employment gap
  - Earlier recessions: disabled individuals hit harder with job losses
  - Gap increased up through 2015, then started to close
- Pandemic appears to have erased this progress

# Introduction

- Objective: use CPS data to document employment trends for disabled and non-disabled individuals during pandemic compared to prior years
  - Conduct intersectional analysis of individuals with multiple identities, especially disability, race/ethnicity, and gender
- Also perform decomposition analysis to test how explained portion of disability employment gap has changed during pandemic

# Background

- People with disabilities less likely to be employed.  
Why?
  - Education and skill gaps
  - Employer attitudes and organizational culture
  - Disability income support from govt
- People with disabilities also face pay gap
- People with disabilities more likely to work part-time, in contingent work, in gig work with few benefits, and in service and blue-collar jobs
  - These types of jobs hard hit by pandemic business closures
- Experience of disability varies by gender and race

# Data and Methodology

- Study uses Current Population Survey (CPS), contains info on disability
  - six disability questions identify hearing, vision, cognitive, and mobility impairments, and difficulty with self-care or going outside alone
  - do our own seasonal adjustment and reweight the data accordingly
- First conduct descriptive analysis
  - Annual trends in employment rates and # jobs by disability status and intersection with race & gender
  - Monthly patterns during 2020, especially before and after April

# Data and Methodology

- Next: logit regressions to predict percent change in likelihood of employment by disability status, intersected w/ gender & race, for working-age people
- Next: employment gap decomposition
  - Follows precedent set by Fairlie (1999, 2003)
  - Similar to Oaxaca/Blinder wage gap decomposition
  - Use coefficients from pooled regressions to approximate returns to characteristics in absence of discrimination
  - Residual employment gap is difference btw actual employment rates and predicted employment rates
  - Controls: gender, race/ethnicity, educational attainment, marital status, age, occ/ind
  - CPS has data on occ/ind for people employed currently or in past year

## Sample Means

- Means for non-disabled and disabled sub-samples are comparable except for employment status, age, education, and marital status.
  - Individuals with disabilities less likely to be employed or have a Bachelor's or graduate degree
  - People with disabilities are older, more likely to be separated/divorced or widowed.
- People with disabilities overrepresented in blue-collar and service occupations, and underrepresented in white-collar occupations
  - Biggest difference is managerial jobs, held by 12.0% of non-disabled workers and 8.8% of disabled workers.

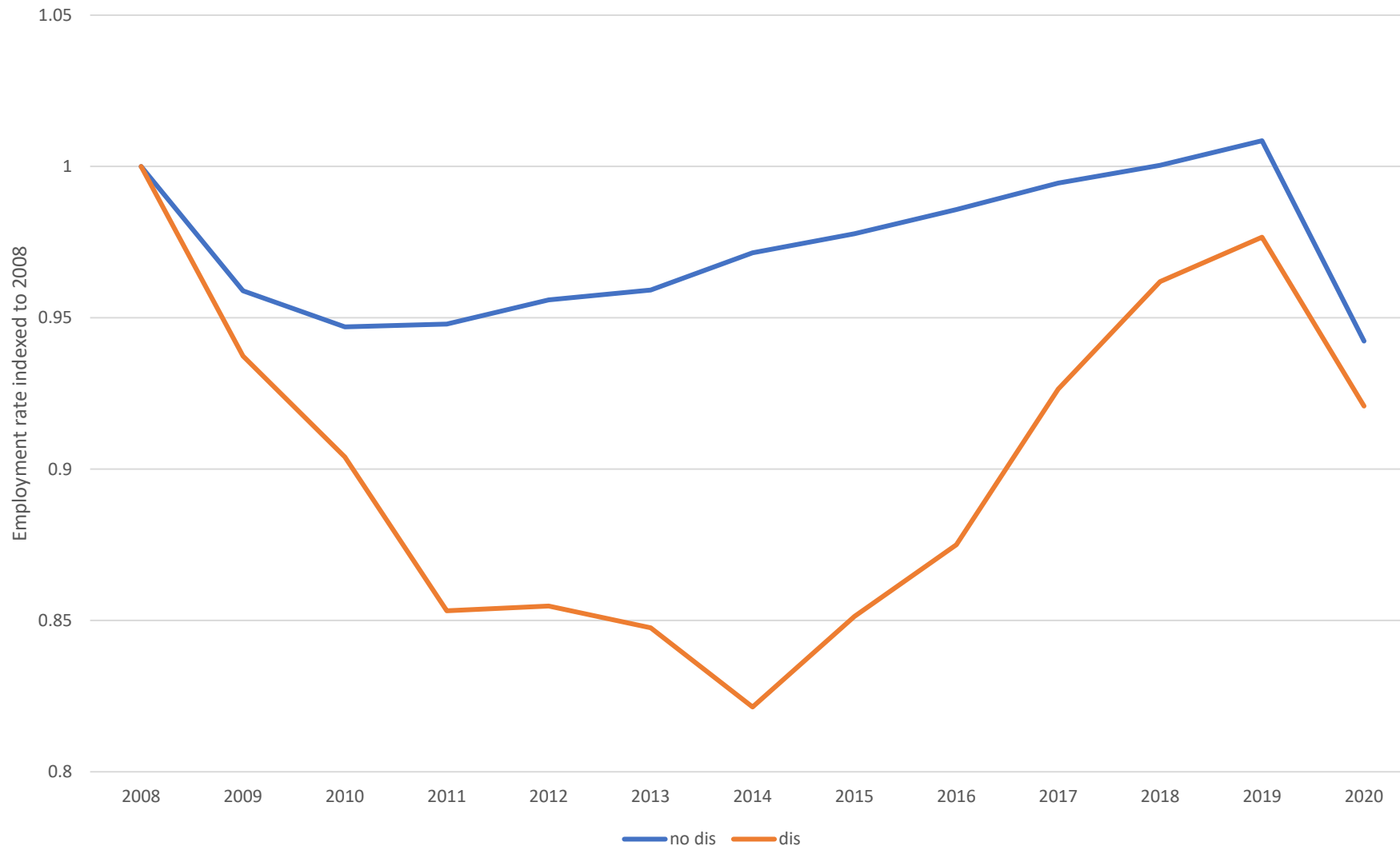
	Total	Non-disabled	Disabled
Employed	0.689	0.720	0.295
Disabled	0.073	0.000	1.000
Gender			
Male	0.492	0.492	0.499
Female	0.508	0.508	0.501
Race/ethnicity			
White non-Hispanic	0.591	0.588	0.629
Black non-Hispanic	0.127	0.124	0.160
Hispanic/Latino	0.189	0.192	0.149
Other race/ethnicity	0.094	0.096	0.063
Education			
No HS degree	0.089	0.083	0.165
HS degree	0.274	0.266	0.375
Some college/AA	0.281	0.280	0.295
Bachelor's degree	0.232	0.242	0.115
Graduate degree	0.124	0.130	0.051
Marital status			
Never married	0.356	0.355	0.373
Married	0.515	0.527	0.367
Separated/divorced	0.112	0.104	0.213
Widowed	0.016	0.014	0.047
Sample size	549,141	505,920	43,221



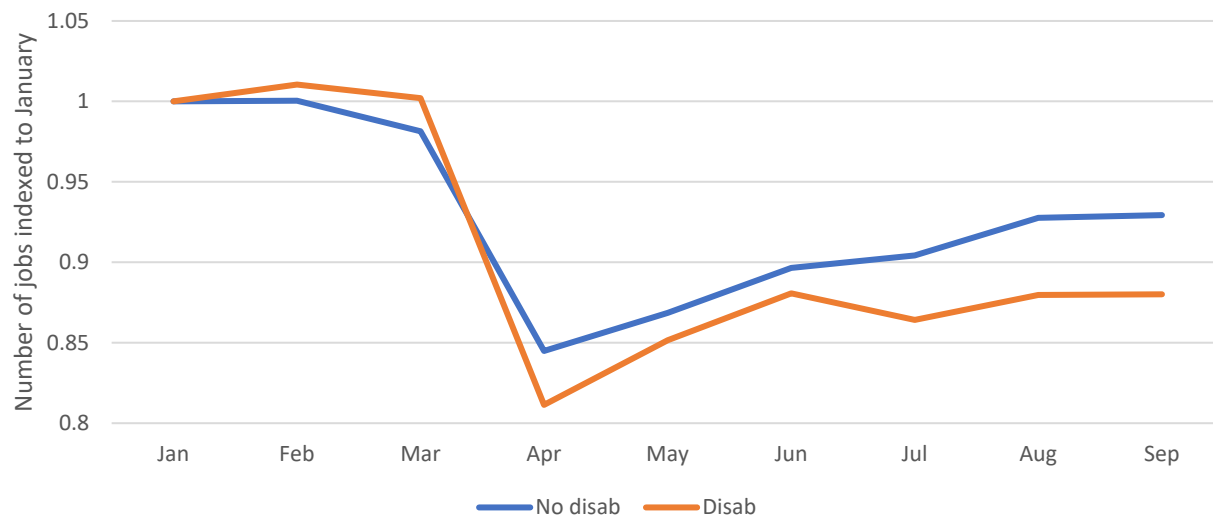
# Employment Patterns

- Figure 1: Annual 2008-2020 employment rates by disability status
- Figure 2: Monthly 2020 number of jobs by disability status
- Figure 3: Stratification by disability, race, and gender
- Additional data reported in paper: Workers with disabilities are more prevalent in occupations and industries with larger employment declines

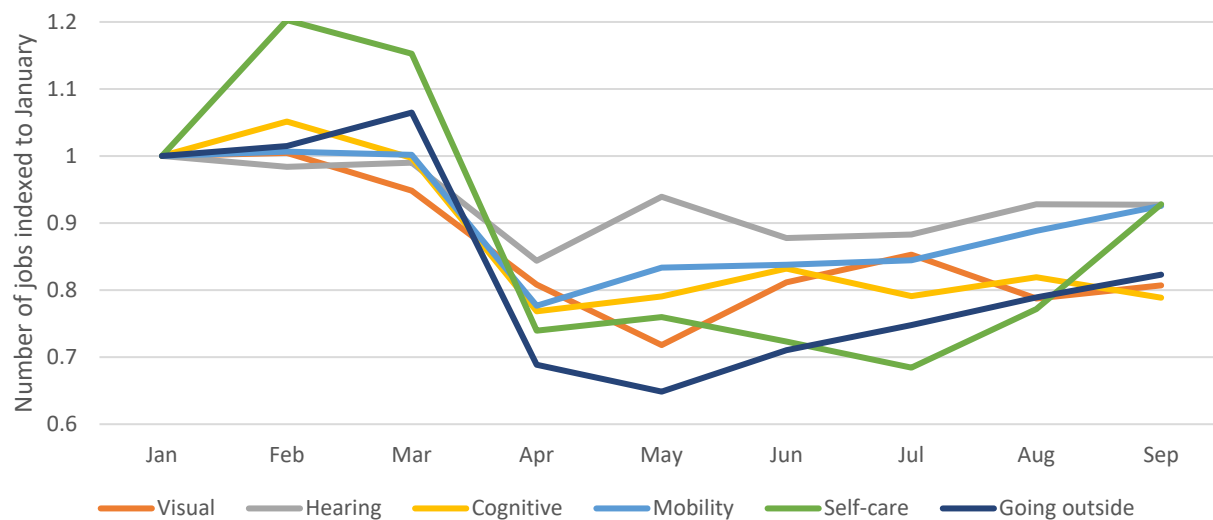
## Employment Trends by Disability Status, 2008-2020



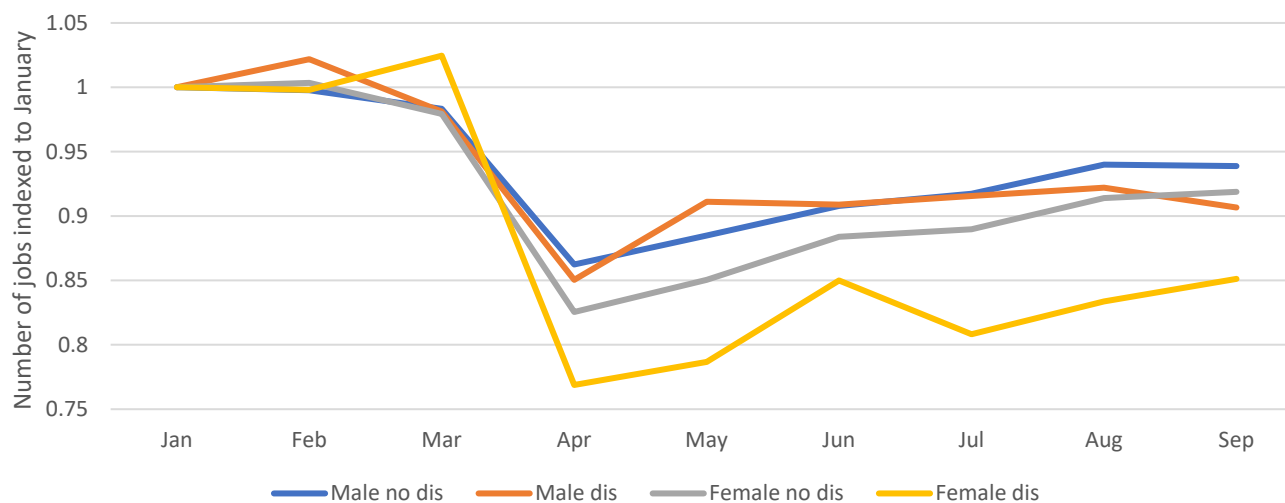
## Pandemic Employment by Disability, 2020



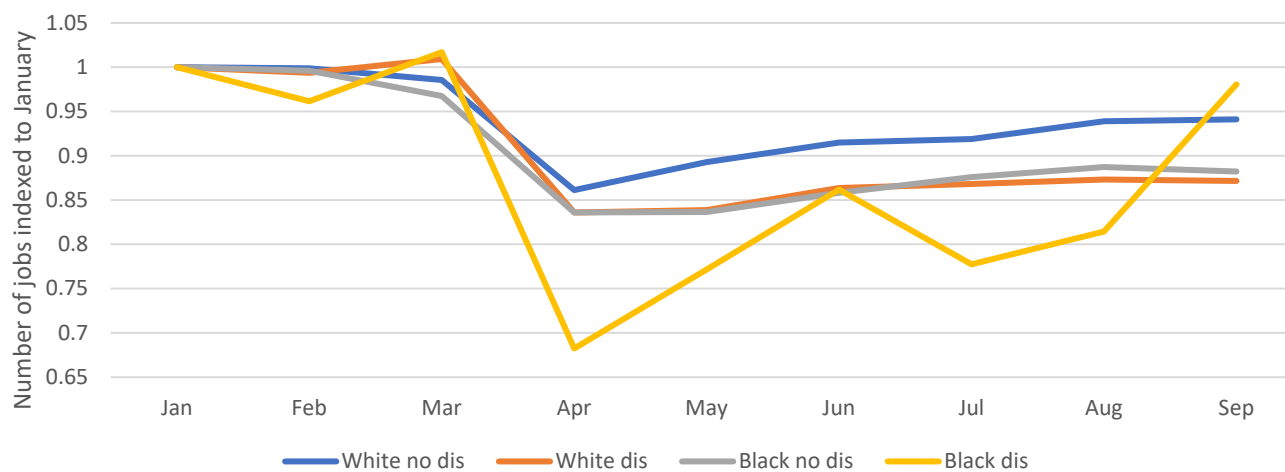
## Pandemic Employment by Type of Disability, 2020



## Pandemic Employment by Disability and Gender, 2020



## Pandemic Employment by Disability and Race, 2020



# Logit Results

- Disability gaps significantly different from zero in Jan-April 2020 and Jan-Sept 2020
- Employment drops significantly larger for women relative to men, and for Blacks and Hispanics/Latinos relative to White non-Hispanics
- Two-way interactions (disability & gender; disability & race) also show larger declines compared to people w/o disabilities
- Three-way interaction: White and Black women with disabilities bore a relatively heavy burden of employment losses during the pandemic

				Sample with job currently or in past 12 mos.^					
				January-April pct. change			January-Sept. pct. change		
Model 3: Disability 3-way interactions									
	Predicted employment change for white men without disabilities (base group)			-7.2%	(0.003)	**	-2.9%	(0.002)	**
Additional gap for those:									
	With disability								
	Males								
		White non-Hispanic		-2.7%	(0.022)		-2.0%	(0.019)	
		Black non-Hispanic		-18.5%	(0.107)		0.6%	(0.084)	
		Hispanic/Latino		-9.5%	(0.056)		-5.0%	(0.051)	
		Other race/ethnicity		0.8%	(0.094)		-3.1%	(0.104)	
	Females								
		White non-Hispanic		-6.3%	(0.024)	**	-6.5%	(0.021)	**
		Black non-Hispanic		-15.9%	(0.069)	*	-7.7%	(0.060)	
		Hispanic/Latino		-7.1%	(0.071)		-10.2%	(0.065)	
		Other race/ethnicity		-10.8%	(0.071)		-5.5%	(0.057)	
Demographic controls				Yes			Yes		
Occupation controls				Yes			Yes		
Sample size				418,997			418,997		

# Decomposition Results

- Within both Jan-April and April-Sept very little of the cross-sectional disability employment gap is explained by occupation, industry, education, and demographic variables
  - 8.3% in Jan-March and 17.7% in April-Sept
- About half the increase in disability employment gap moving from 1<sup>st</sup> period to 2<sup>nd</sup> period is explained by these factors, especially occ distribution
- Similar substantive conclusion for decomposition for March-Apr 2020 compared to pooled 2014-2019 sample

		Jan-March, 2020		April-Sept., 2020		Change	
		(1)		(2)		(3)	
Employment levels							
	No disability	0.9602	(0.0007) **	0.8856	(0.0011) **	-0.0746	(0.0013) **
	Disability	0.9015	(0.0054) **	0.8093	(0.0064) **	-0.0922	(0.0083) **
	Difference	0.0587	(0.0054) **	0.0764	(0.0065) **	0.0176	(0.0084) *
Explained							
	Total	0.0049	(0.0008) **	0.0135	(0.0017) **	0.0086	(0.0019) **
	Occupation	0.0013	(0.0003) **	0.0057	(0.0008) **	0.0043	(0.0009) **
	Industry	0.0003	(0.0002) **	0.0013	(0.0007) **	0.0010	(0.0007)
	Education	0.0018	(0.0003) **	0.0044	(0.0005) **	0.0026	(0.0006) **
	Other demographics	0.0014	(0.0004)	0.0021	(0.0007)	0.0007	(0.0008)
Unexplained							
		0.0538	(0.0054) **	0.0638	(0.0049) **	0.0099	(0.0073)
Percent of difference explained							
		8.3%		17.7%		48.8%	



# Policy implications

- Pay particular attention to the intersection of disability with gender and race in designing proactive employment policies
- Need more employer policies to provide telecommuting accommodations rather than pigeonholing individuals with disabilities into a traditional workspace
- Ensure that pay levels and raises of people with disabilities are determined more by actual job performance and qualifications, rather than stereotypes and workplace cultural dynamics

# Conclusion

- White and Black women with disabilities experienced relatively greater employment losses during the pandemic compared to White men without disabilities.
- Decomposition results:
  - there remains a substantial disability gap in employment after controlling for demographic, occupation, and industry factors
  - disability gaps appeared to increase during the pandemic
  - large portion of increased disability gap accounted for by how pandemic differentially affected occupations and industries
  - was still an increase in the unexplained component of the disability employment gap in the pandemic.