Racial Disparities in Unemployment during the COVID-19 Pandemic and Recovery

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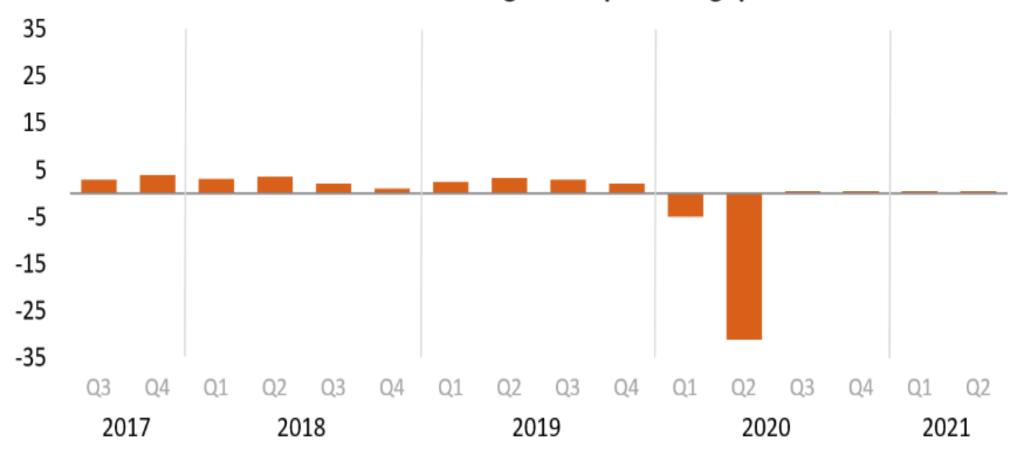
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The Pandemic

- March 11, 2020: The World Health Organization (WHO) declared COVID-19 a pandemic.
- March 16, 2020: San Francisco Bay Area imposed shelter-in-place restrictions
- March 19, 2020: State of California
- March 20, 2020: New York State
- By early April: most states imposed social distancing restrictions

Real GDP: Percent change from preceding quarter



U.S. Bureau of Economic Analysis

Seasonally adjusted at annual rates

Pandemic Recession

- National Bureau of Economic Research
- Peak: February 2020
- Trough: April 2020
- Length of Contraction: 2 months

Real GDP: Percent change from preceding quarter



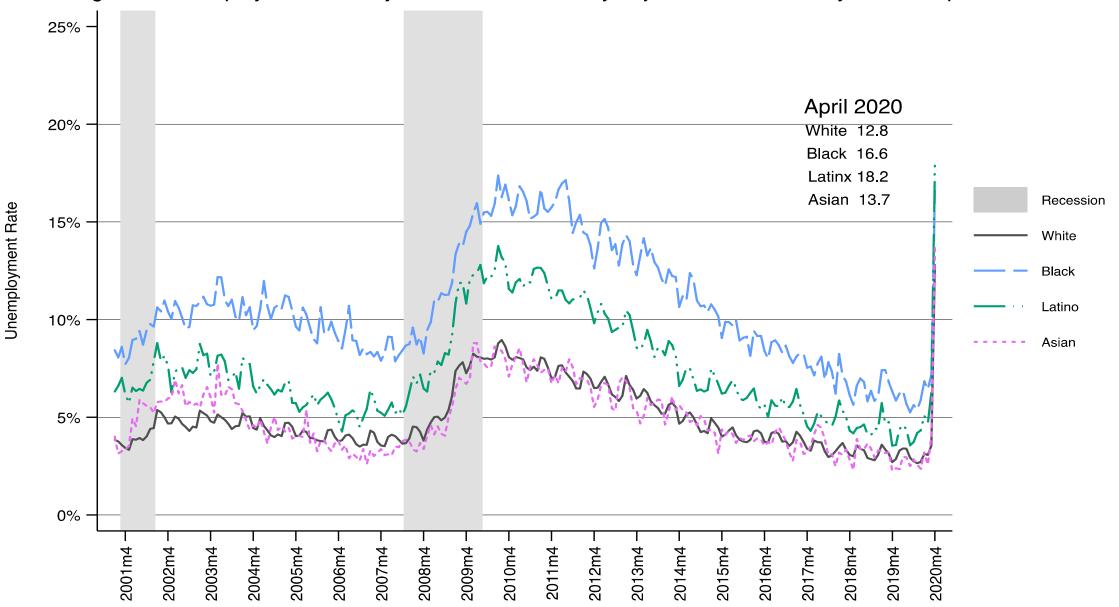
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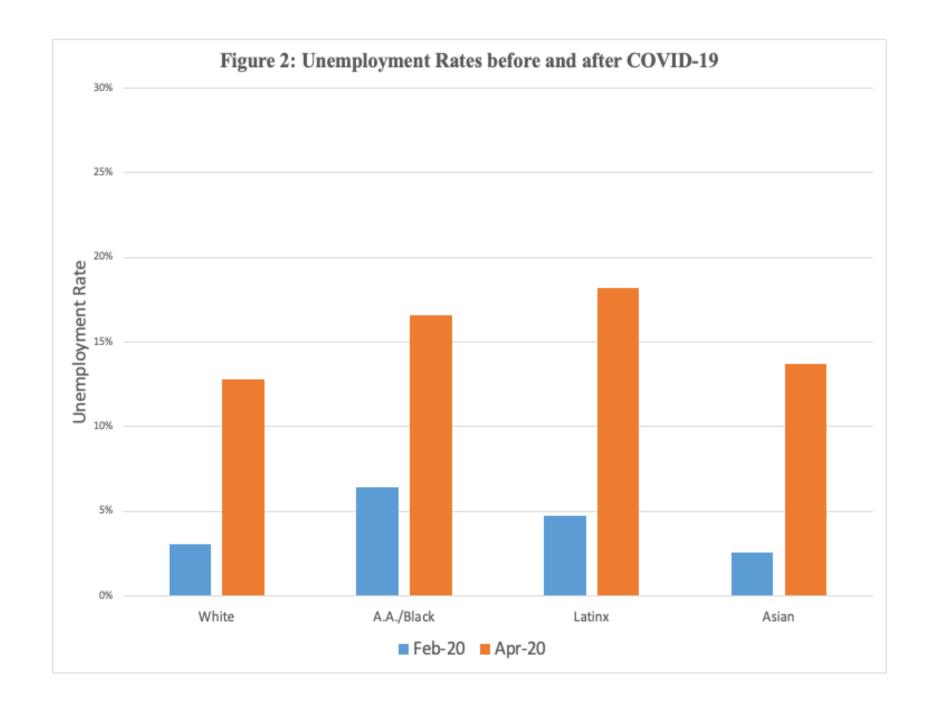
Seasonally adjusted at annual rates

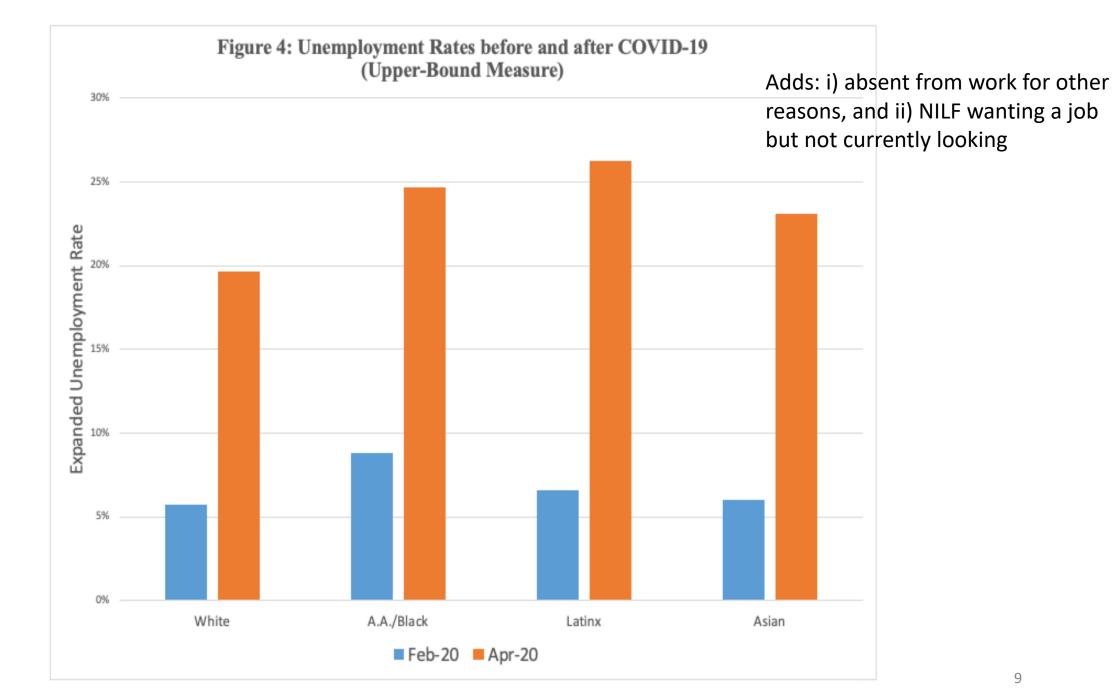
Unemployment: Key Questions

- How large were the early-stage impacts of COVID-19 on unemployment?
- Were there disproportionate effects on minority unemployment?
- Has unemployment improved in the recovery?
- Has unemployment disproportionately improved?
- What contributed to disproportionate effects?

Figure 1. Unemployment Rate by Race, Not Seasonally Adjusted, 2001 January to 2020 April



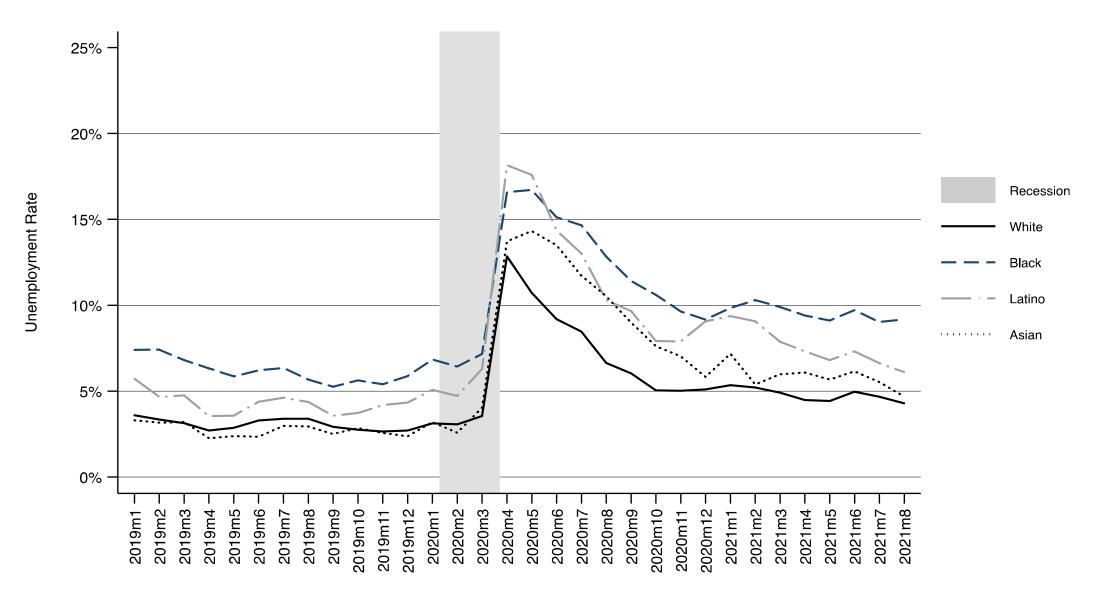


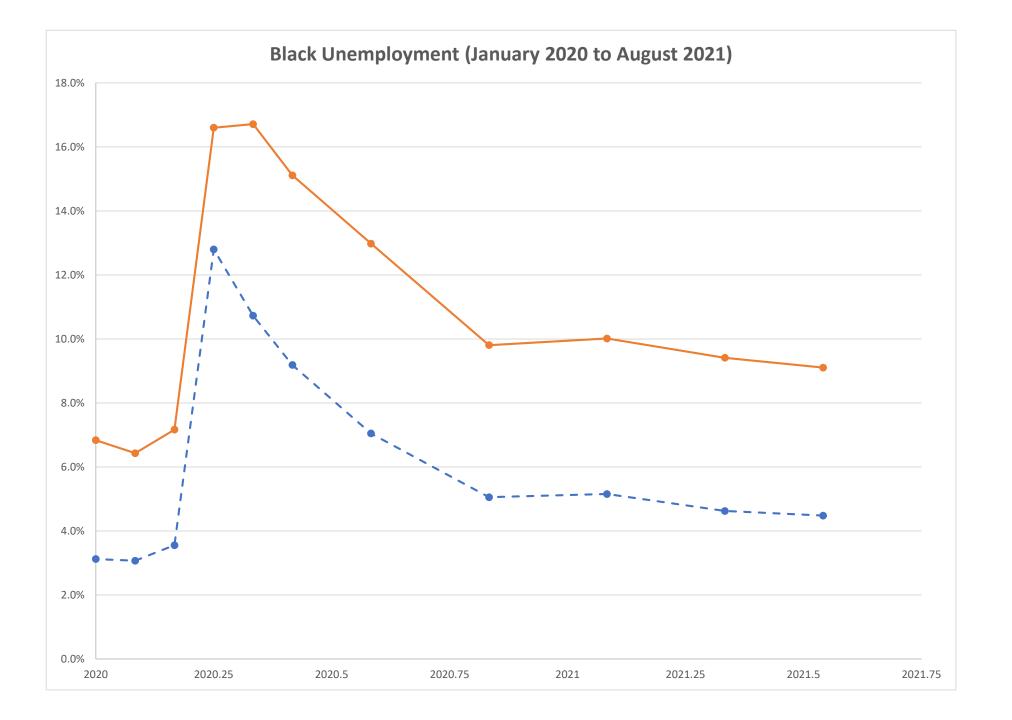


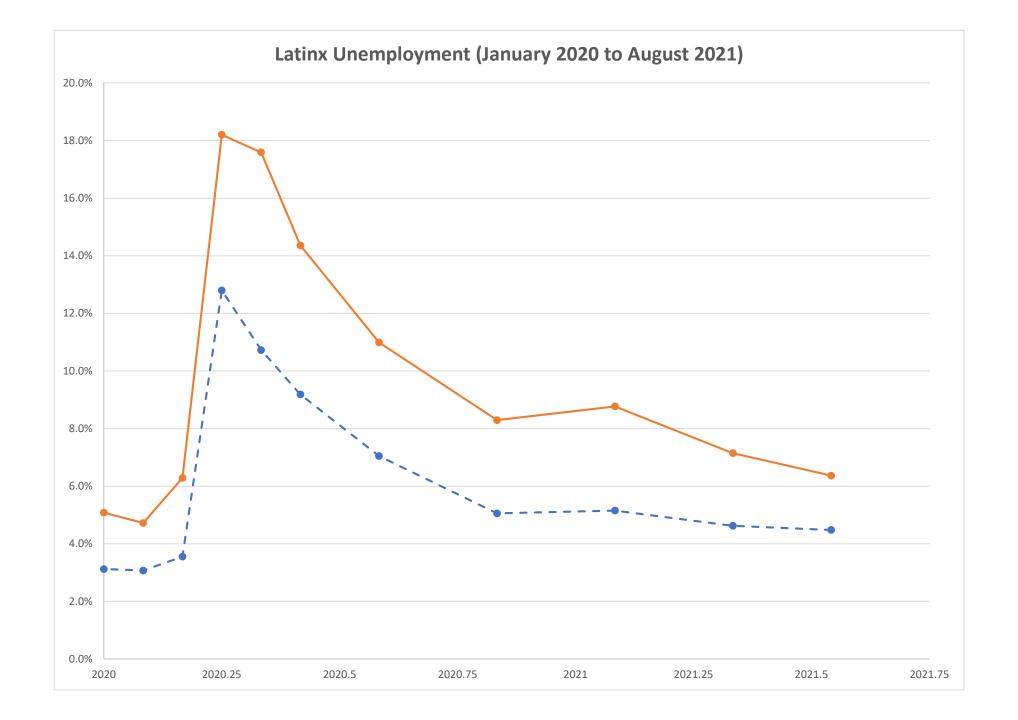
Data

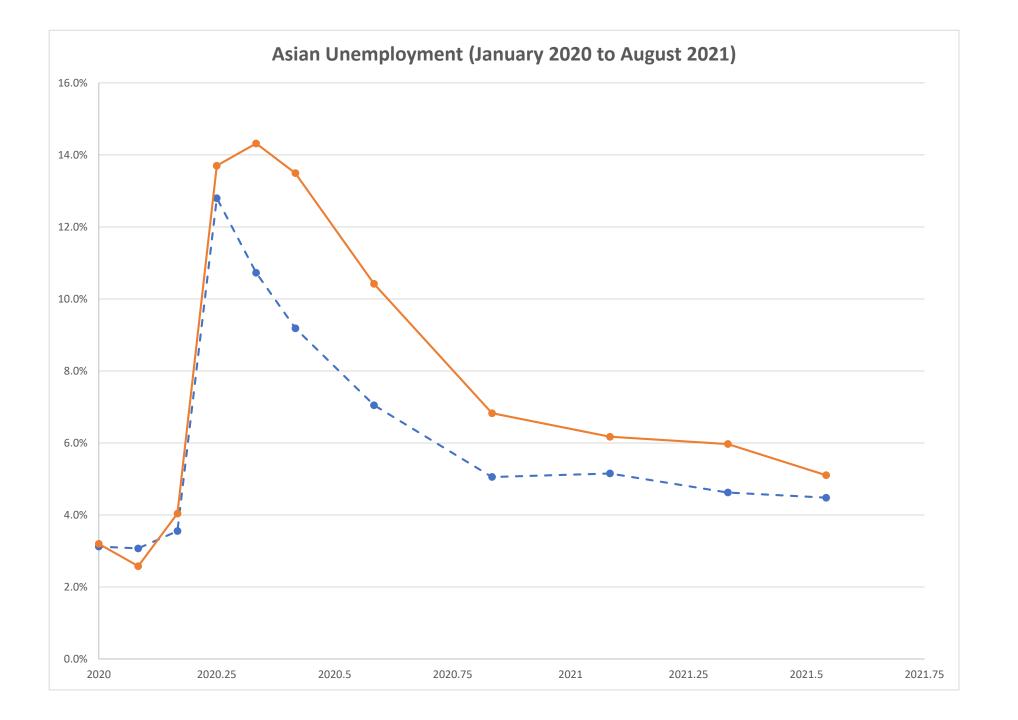
- Data are the Basic Monthly Files from the Current Population Survey (CPS)
- Source of the official household-based survey measure of unemployment.
- Conducted monthly by the U.S. Bureau of the Census and the U.S. Bureau of Labor Statistics.
- Each survey is representative of the civilian non-institutional population and contains observations for more than 130,000 people.
- Use monthly data over the pandemic focusing on April 2020 to August 2021 (the latest data available).
- Estimate impacts monthly for April-June 2020, and then quarterly to June 2021.
 2021 Q3 includes only July and August 2021.

Figure 2. Unadjusted Unemployment Rate by Race, January 2019 to August 2021









Regressions

- Estimate the impacts of COVID-19 on the evolution of racial unemployment rate gaps in the pandemic
- Control for individual, job and geographical characteristics
- Control for pre-pandemic time trends, seasonality and different comparison time periods

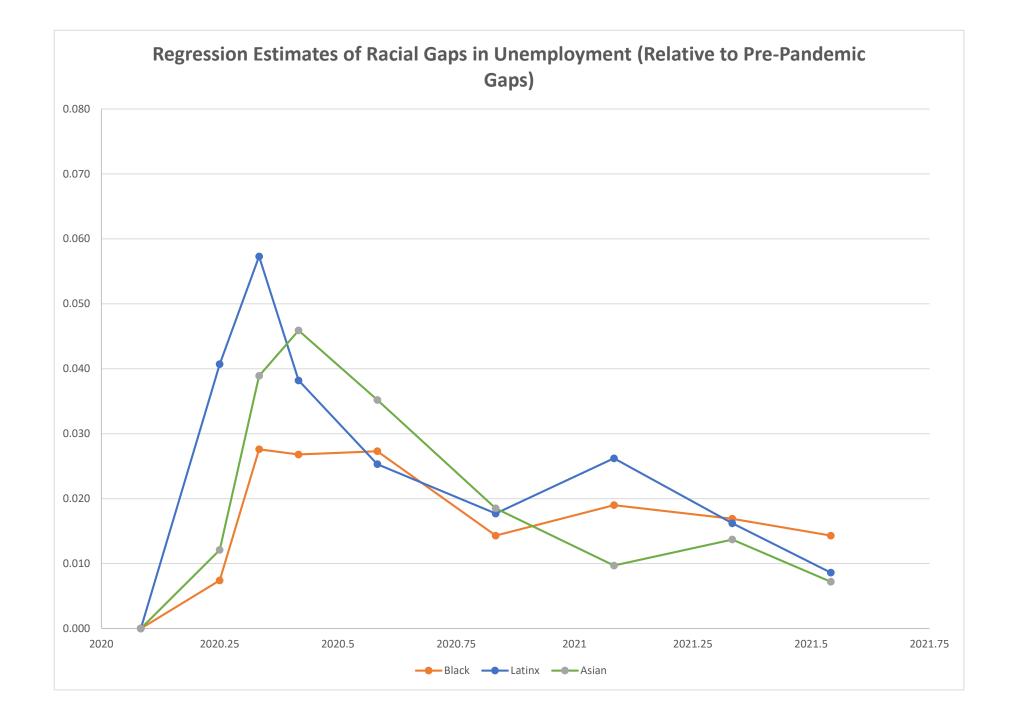


Table 3. Risk Factors for Unemployn	nent from COVID-19)			
	Risk Factor (Feb.201	7 – Feb. 2020)	April 2020 to June 2020		
	Black	White	National Unemployment Rate		
Essential					
Nonessential industry	16.5%	15.5%	27.2%		
Essential industry	83.5%	84.6%	10.4%		
Education					
High school dropout	7.9%	4.9%	21.6%		
High school grad	31.5%	24.6%	16.1%		
Some college	32.5%	28.4%	14.8%		
College grad	18.3%	26.9%	9.3%		
Graduate school	9.8%	15.2%	5.6%		
Region					
Northeast	17.2%	19.3%	14.7%		
Midwest	16.2%	26.9%	13.1%		
South	57.2%	34.0%	11.2%		
West	9.5%	19.8%	14.0%		
Experience					
Potential experience (years)	21.4	24			
Major industry					
Agriculture, forestry, fishing, and hu	0.4%	1.7%	5.0%		
Mining	0.2%	0.5%	12.0%		
Construction	3.8%	7.0%	12.2%		
Manufacturing	8.4%	10.3%	11.2%		
Wholesale and retail trade	12.7%	13.1%	14.2%		
Transportation and utilities	8.7%	4.9%	12.3%		
Information	1.7%	2.0%	12.1%		
Financial activities	5.7%	7.4%	5.5%		
Professional and business services	10.4%	12.6%	8.9%		
Educational and health services	27.1%	23.1%	10.0%		
Leisure and hospitality	10.4%	8.2%	33.6%		
Otherservices	4.3%	4.7%	17.9%		
Public administration	6.3%	4.7%	3.7%		

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	Risk Factor (Feb.2	017 – Feb. 2020)	April 2020 to June 202		
Major occupation					
Management, business, and financia	11.0%	19.4%	5.4%		
Professional and related occupation	19.3%	25.5%	8.1%		
Service occupations	24.3%	14.2%	23.1%		
Sales and related occupations	9.3%	10.6%	15.5%		
Office and administrative support or	13.4%	11.2%	11.7%		
Farming, fishing, and forestry occupa	0.3%	0.6%	9.5%		
Construction and extraction occupat	3.2%	4.7%	15.3%		
Installation, maintenance, and repa	2.3%	3.3%	11.2%		
Production occupations	6.0%	4.9%	14.9%		
Transportation and material moving	10.2%	5.4%	17.0%		
Telework Telework					
Share of jobs that can be done at home	32.1%	41.7%			
Less than median			15.9%		
More than median			9.7%		
Health risk					
Exposed to health risk index (Z-score)	0.12	-0.02			
Less than median			10.3%		
More than median			15.5%		

Table 4. Decompositions - Unemployment April 2020 to August 2021

	April 2020 May 2020 June 2020 Jul-Sep 202(Oct-Dec 201Jan-Mar 201Apr-Jun 202 Jul-Aug 202								2019
	Black - White Gap in Unemployment Rate								
	3.8	6.0	5.9	5.9	4.8	4.9	4.8	4.6	3.1
Industry	-0.29	-0.13	0.07	0.15	-0.03	-0.49	-0.27	0.21	0.47
Occupation	1.55	1.39	1.04	0.88	0.87	0.93	0.75	0.58	0.22
Education	0.56	0.65	0.35	0.34	0.20	0.19	0.28	0.31	0.21
State	-0.04	0.20	0.12	0.19	0.13	0.20	0.14	0.14	-0.07
Potential exp.	0.13	0.22	0.20	0.12	0.09	0.20	0.11	0.13	0.3
Telework	0.19	0.12	0.10	-0.01	0.03	0.09	0.09	-0.04	0.03
Health risk	-0.16	-0.10	-0.11	-0.12	-0.09	-0.06	-0.06	-0.08	-0.03

	April 2020 May 2020 June 2020 Jul-Sep 202(Oct-Dec 202Jan-Mar 202Apr-Jun 202 Jul-Aug 202								2019
	Latinx-White Gap in Unemployment Rate								
	5.4	6.9	5.2	3.9	3.2	3.6	2.5	1.9	1.2
Industry	0.05	-0.14	0.20	0.31	0.53	0.34	0.23	0.13	0.29
Occupation	2.29	1.98	1.26	0.99	0.98	1.30	0.75	0.69	0.48
Education	1.00	1.05	0.47	0.41	0.28	0.45	0.38	0.44	0.41
State	0.10	0.67	0.73	0.85	0.84	0.90	0.77	0.55	0.12
Potential exp.	0.14	0.26	0.21	0.12	0.05	0.10	0.05	0.07	0.11
Telework	0.32	0.17	0.11	-0.01	0.04	0.10	0.09	-0.04	0.04
Health risk	0.11	0.06	0.07	0.06	0.01	0.00	0.01	0.03	0.02

	April 2020 May 2020 June 2020 Jul-Sep 202(Oct-Dec 202Jan-Mar 202Apr-Jun 202 Jul-Aug 202								2019
	Asian-White Gap in Unemployment Rate								
	0.9	3.6	4.3	3.4	1.8	1.0	1.3	0.6	-0.3
Industry	-0.37	-0.22	-0.11	0.07	0.11	0.06	0.02	0.05	0.27
Occupation	0.19	-0.09	-0.05	0.01	-0.01	0.00	-0.08	-0.13	-0.1
Education	-0.72	-0.85	-0.57	-0.50	-0.29	-0.22	-0.35	-0.40	-0.12
State	0.84	1.24	1.56	1.58	1.18	1.04	1.05	0.91	0.15
Potential exp.	-0.01	0.09	0.07	0.08	0.03	0.07	0.04	0.05	0.09
Telework	-0.04	-0.03	-0.04	0.01	-0.01	-0.01	-0.02	0.02	-0.01
Health risk	0.02	-0.01	0.03	0.04	0.01	0.00	0.00	0.02	0.01

Summary

- All groups hit hard in early stages of pandemic but all groups have improved in the recovery
- The impacts on racial unemployment rate gaps evolved differently over time
 - The impacts on the Black-White gap are stubbornly large, the impacts on the Latinx-White gap were large early but fell to nearly zero, and the impacts on the Asian-White gap are still positive
- Decompositions show that occupational distributions and educational levels were extremely important in the early stages of the pandemic but generally contributed less in the recovery
- Geographical distributions contributed to larger gaps for Latinx and Asians
- Telework and health risk become much less important in recovery