Vulnerable Workers During the Pandemic, Recovery, and Tight Labor Market

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Introduction: Pandemic, Recovery & Tight Labor Market Periods

- Pre-Pandemic (Jan. 2017 to Mar. 2020)
 - Strong job growth
 - Unemployment rate fell below 4.0%
- The pandemic (Apr. 2020 to July 2020) Hypothesis: Vulnerable hurt more
 - Payroll Contraction
 - Unemployment rates increased
 - Employment-Population Ratios fell
 - UI Claims Increased
- Recovery (Aug. 2020 to Feb. 2022) and "Tight" (Mar. 2022 to Aug. 2023) labor market Hypothesis: Vulnerable workers helped
 - Strong job growth
 - Wide-spread job openings and increase in compensation
 - Calls for social justice
 - Great Resignation
- Concern that the economy is slowing down Hypothesis: Vulnerable workers hurt more
 - Broad-based Inflation
 - Shift from pandemic to endemic
 - Job openings fallen by over 2.6 million since March 2022.

Introduction: Pre-Pandemic, Pandemic, Recovery & Tight Labor Market

- Research Questions:
 - Who are economically vulnerable workers?
 - What are the employment experiences of "vulnerable" groups during the four periods?
 - Does the employment deterioration and recovery reflect changes in the economy that impacted the job matching process?
 - Is the labor market weakening?
 - What are keys to sustaining the "tight" labor market? Can unemployment rates stay low even as job openings contract?

Economically Vulnerable: The Criteria

- Lower Employment-Population Ratios
 - Elevated Unemployment Rates
 - Lower Labor Force Participation Rates
- Below Average Hourly Wages and Hours Worked
- Full-time Employment
- Greater Sensitivity to Changes in Area Job Openings and Unemployment

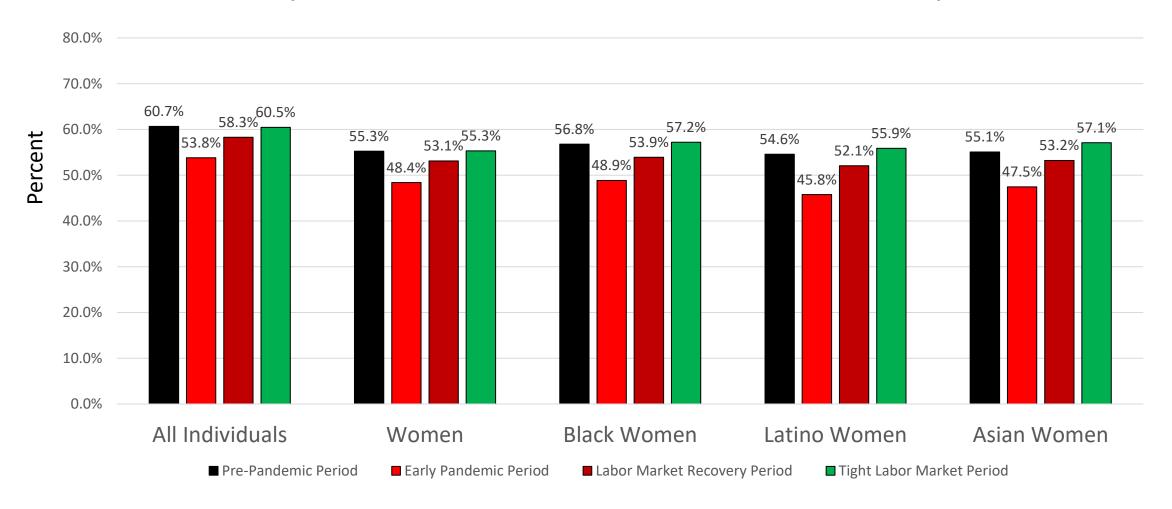
Economically Vulnerable Groups

- Young Non-enrolled with no more than a HS Diploma (age 16 to 24)
- Adults with no more than a HS diploma (age 25 and older)
- Women, all races
- Black men and women
- Latino men and women
- People with a disability (age 16 and older)
- American Indians and Alaska Natives

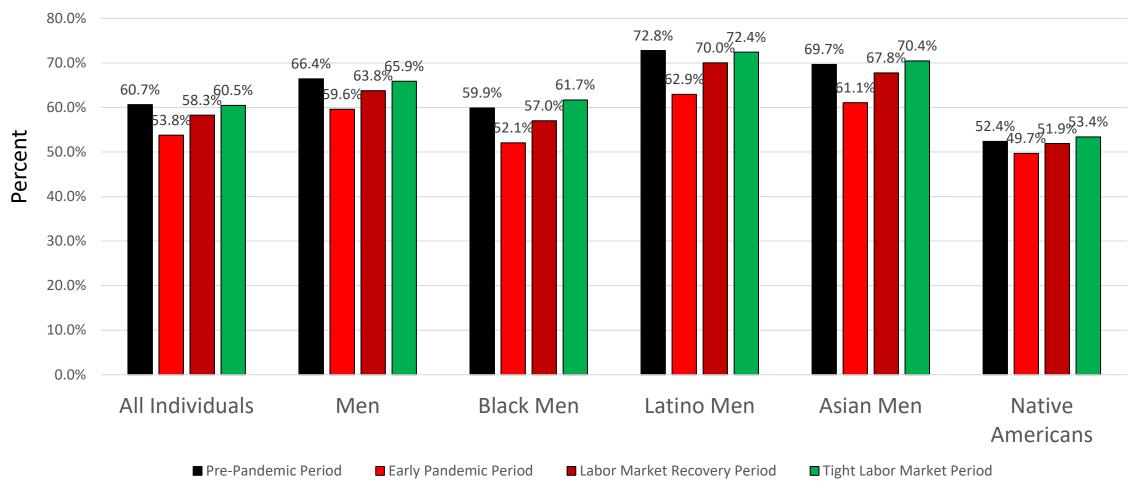
Data and Methods

- The Data
 - Micro data from the monthly CPS household Surveys: February 2020 to August 2023
 - State-level unemployment rates (BLS-LAUS) and Job Opening Rates (BLS-JOLTS)
 - Merge state-level data to CPS micro data
- Pre-Pandemic, Pandemic, Recovery & Tight Labor Market
 - Pre-Pandemic Period Jan. 2017 to Mar. 2020
 - Early Pandemic Period Apr. 2020 to July 2020
 - Labor Market Recovery Period Aug. 2020 to Feb. 2022
 - Tight Labor Market Period Mar. 2022 to Sep. 2023
- Tool for Illustrating Structural Shifts and Differences
 - Beveridge curve (unemployment and vacancy relationship)
 - Regress Unemployment status dummy variable on state vacancy rate

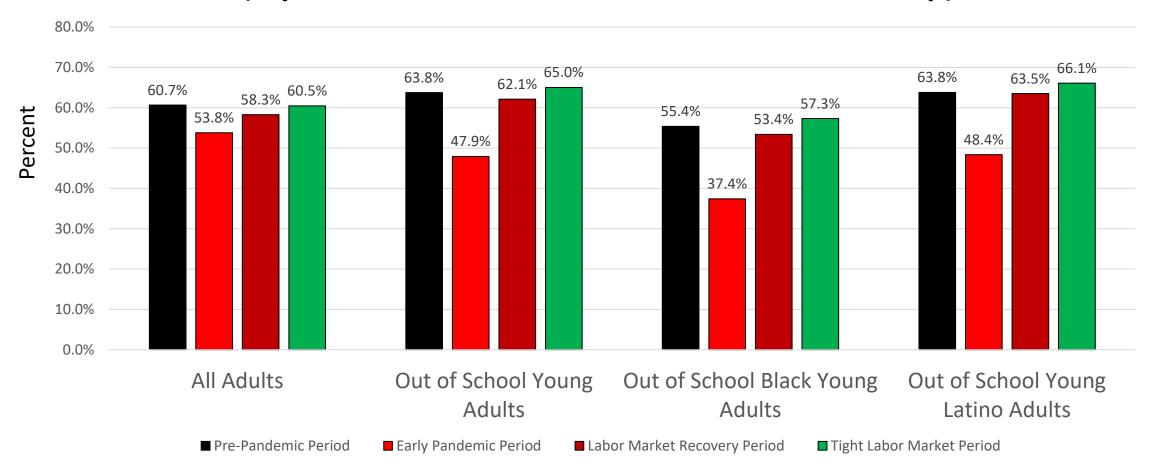
Average Women's Employment-to-Population Ratios (By Macro Period, Race, and Ethnicity)



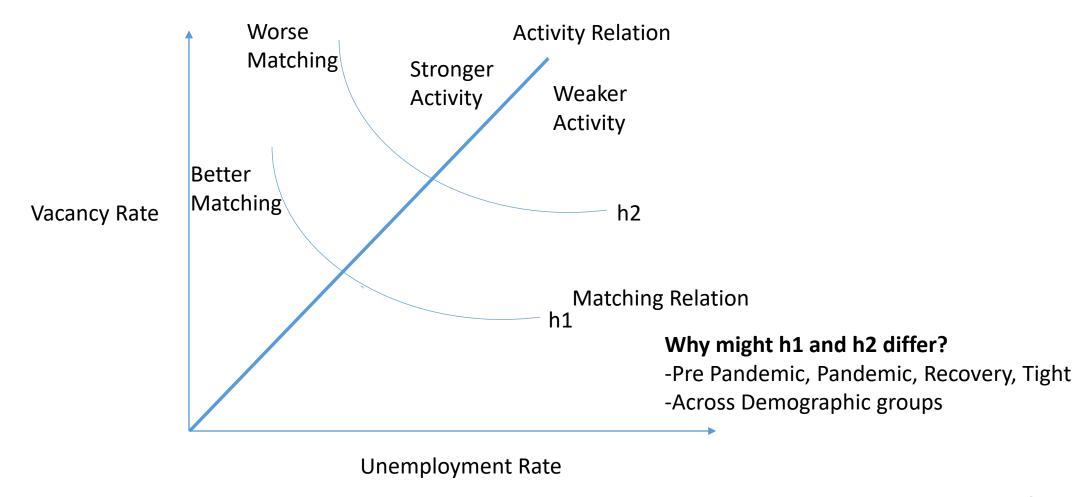
Average Men's Employment-to-Population Ratios (By Macro Period, Race, and Ethnicity)



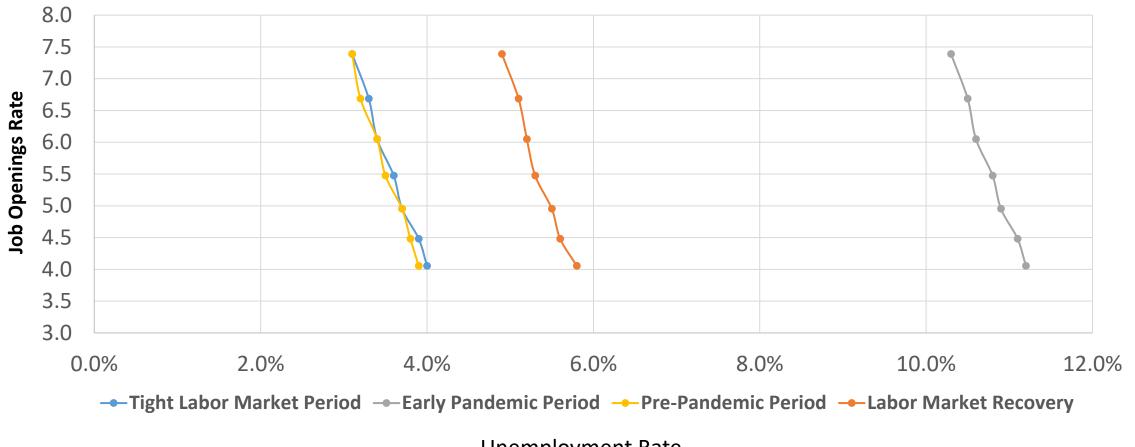
Average Employment-to-Population Ratios of Out of School Young Adults (By Macro Period, Race, and Ethnicity)



Beveridge Curve Framework



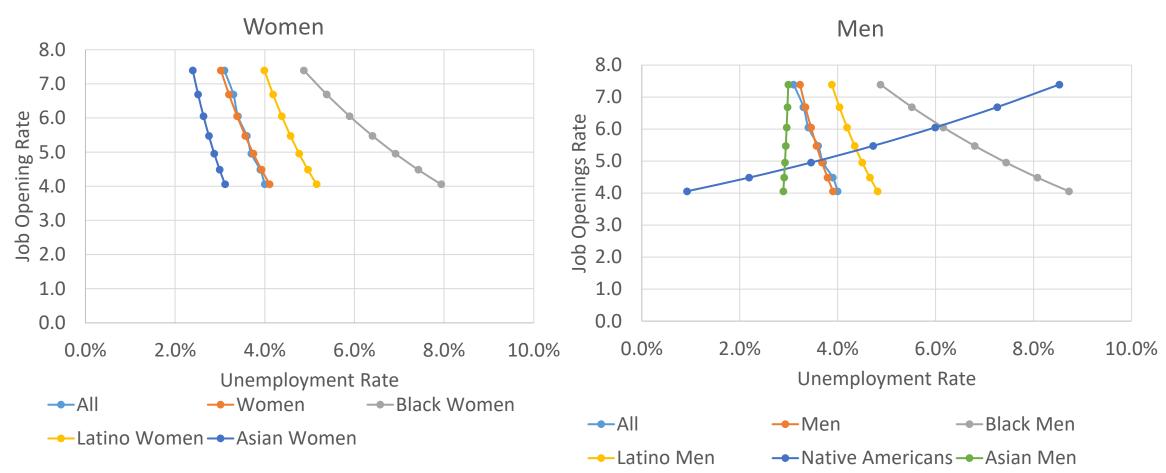
The U.S. Beveridge Curve has returned to its Pre-Pandemic Position.



Unemployment Rate

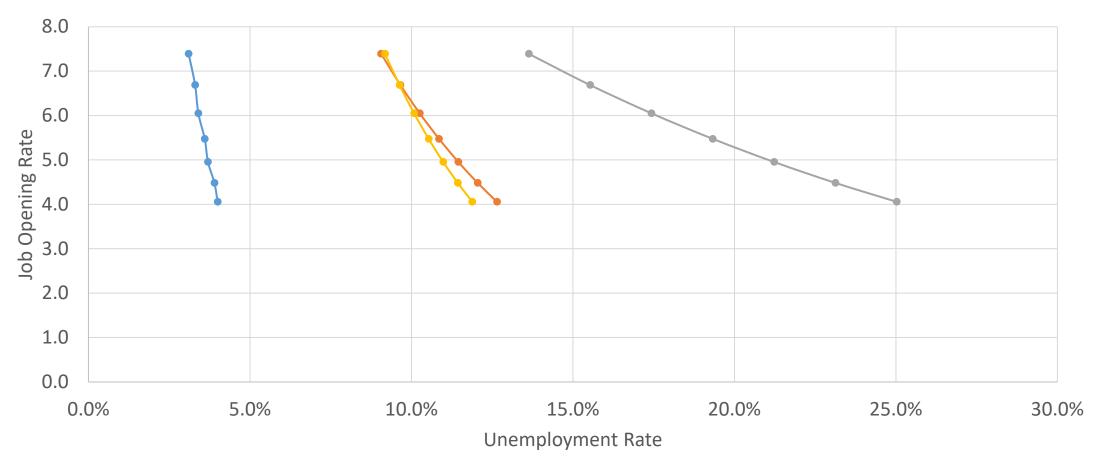
Notes: Unadjusted Beveridge curves are constructed from coefficients that come from a regression of a dummy variable indicating whether the individual is unemployed on the natural logarithm of their state's job openings rate, plus dummy variables for period, and their interactions with a state's job openings. Pre-Pandemic Period- Jan. 2017 and March 2020 Early Pandemic Period - April 2020 to July 2020. Labor Market Recovery Period - August 2020 to February 2022. Tight Labor Market Period - March 2022 to August 2023.

Even During Today's "Tight" Labor Market, the Beveridge Curves of Women, Black and Latino Men Differ from the Economy-Wide Beveridge Curve.



Notes: Unadjusted Beveridge curves are constructed from coefficients that come from a regression of a dummy variable indicating whether the individual is unemployed on the natural logarithm of their state's job openings rate, plus dummy variables for period, and their interactions with a state's job openings. Estimates are for the "Tight" period – March 2022 to August 2023.

Even During Today's "Tight" Labor Market, the Beveridge Curve of Black Out-of-School Young Adults Differs from their Peers.



→ All → Out of School Young Adults → Black Out of School Young Adults → Latino Out of School Young Adults

Notes: Unadjusted Beveridge curves are constructed from coefficients that come from a regression of a dummy variable indicating whether the individual is unemployed on the natural logarithm of their state's job openings rate, plus dummy variables for period, and their interactions with a state's job openings. Estimates are for the "Tight" period – March 2022 to August 2023.

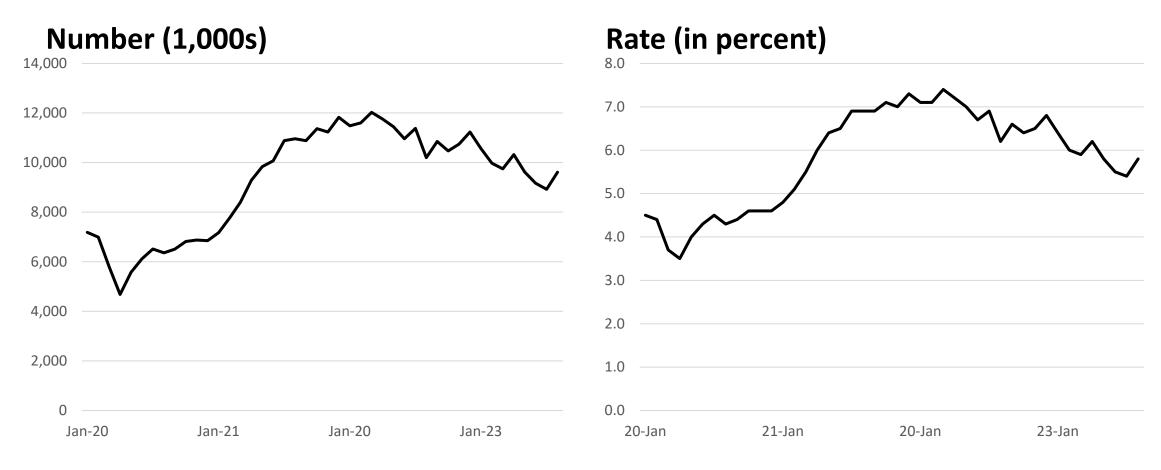
Preliminary Results from 8th District Roundtable Discussions

Not working	Potential Reasons
Young Adults, usually defined as those between the age of 16 and 24.	 More inclined to doing gig work. Lack of soft skills in combination with mental health issues make it harder to <u>remain</u> in the workforce. More young adults <u>reported</u> experiencing anxiety during the pandemic than others. <u>Misperception</u> of what work looks like. For example, expecting remote working opportunities even for entry level work.
Parents (especially mothers of young children)	 Access to safe and affordable childcare Pandemic forced closures of many childcare businesses that haven't come back. Lack of flexible schedules to accommodate with available childcare.
People with a <u>disability</u>	 A lack of understanding of different types of disabilities A lack of understanding about people's abilities and how they are a source of <u>untapped talent</u>. Face major barriers such as transportation.
Justice Involved	 Limitations of where people can work. Perceptions about people who are justice involved. Reputational risk for employers especially in customer facing roles.

Source: Community Development Department at the St. Louis Federal Reserve Bank.

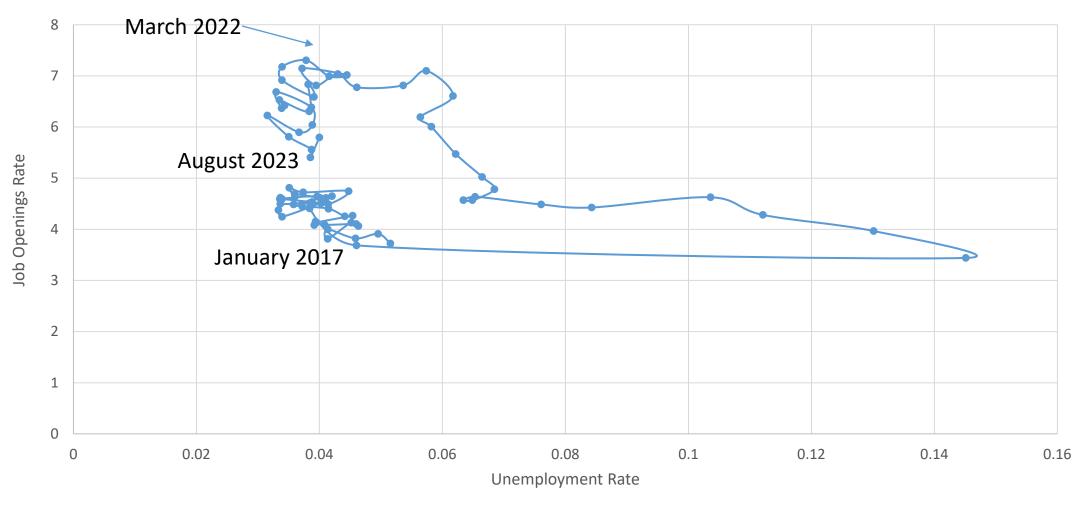
What's Happened to Unemployment as Job Openings have Fallen?

Job openings have trended downward since March 2022



Source: U.S. Bureau of Labor Statistics. www.bls.gov.

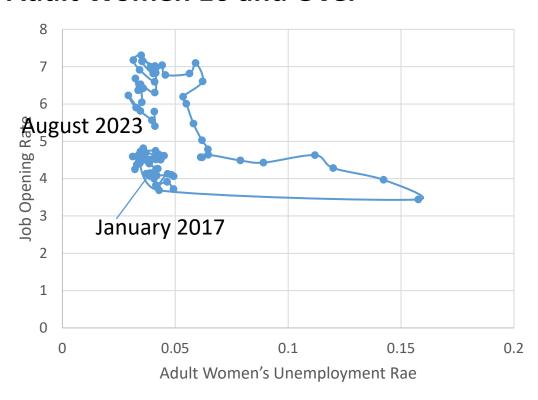
The overall unemployment rate has not risen as job openings have fallen. (January 2017 to August 2023)



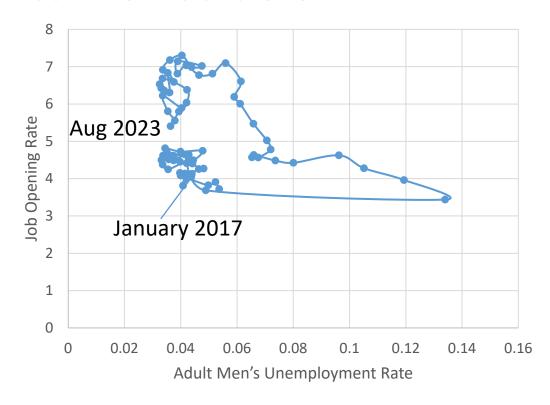
Source: Authors' calculations from the micro data files of the Current Population Survey. Estimates are weighted.

The jobless rates of adult women and men have not risen.

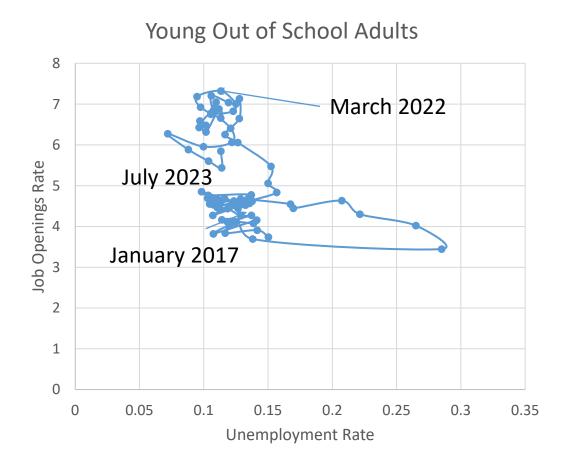
Adult Women 16 and Over

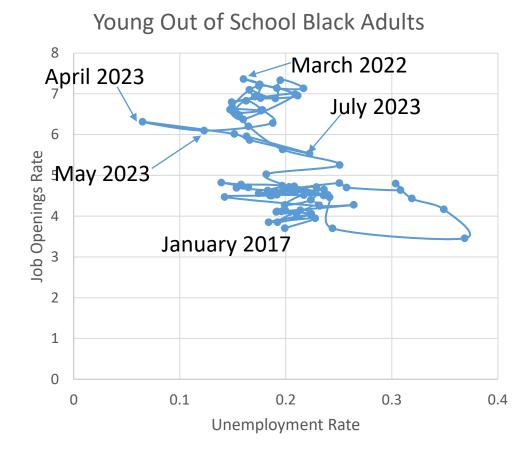


Adult Men 16 and Over



The unemployment rate of Young Non-College Educated Out of School Adults has risen.





Summary and Conclusions to Date

• Even during one of the "tightest" labor markets on record, structural differences in labor market outcomes persist.

- Important to invest in tools that reduce "structural" barriers (Diffs between Beveridge curves) to the job matching process.
- Some candidates to lessen labor and skills shortages:
 - Education and Training
 - Childcare
 - Transportation
 - Job Information and Networks
 - Discrimination
 - Employer and Job Candidate Expectations

Summary and Conclusions to Date, cont.

- Can unemployment rates remain low even as job openings fall?
 - One View: Current job openings are at such a high level, they can fall and remain consistent with strong labor market
 - Another View: Can't have falling job openings without increase in unemployment
 - Current Evidence:
 - Overall: Consistent with first view, but this could change
 - Jobless rates of young out-of-school non-college educated adults have ticked upward

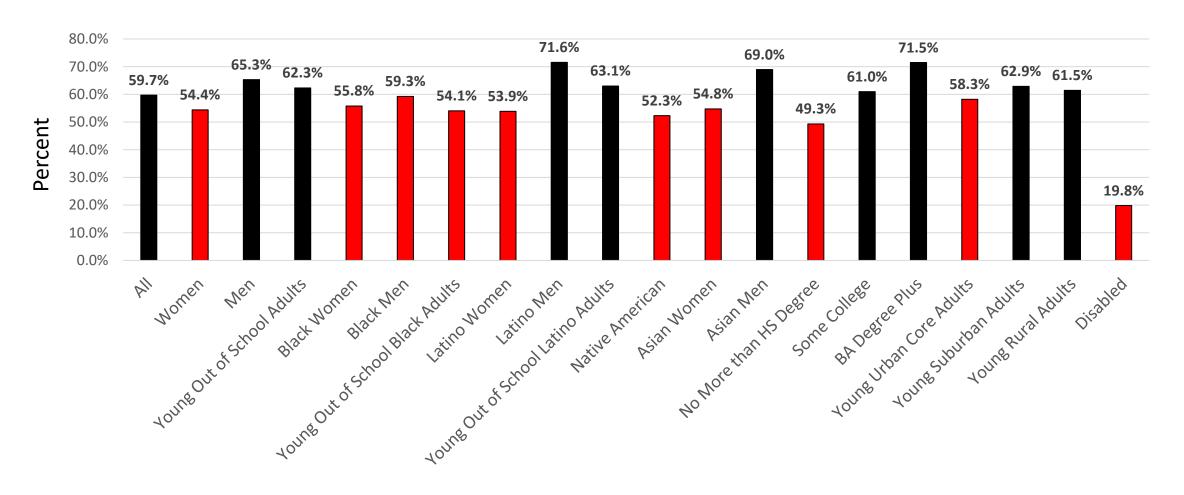
Next Steps

- Data
 - Compute standard errors on estimated curves
 - Robustness checks on four periods
 - Metro Area Analysis
 - BLS metro unemployment rates
 - LinkUp data to create state and metro level job openings rates?
- Topics
 - Are the BC estimates biased?
 - Composition of job openings could change as openings increase?
 - BLS JOLTS openings over-estimate job openings
 - Use LinkUp job listing data to identify how fast and where job openings are falling
 - How to interpret a positive Beveridge Curve?

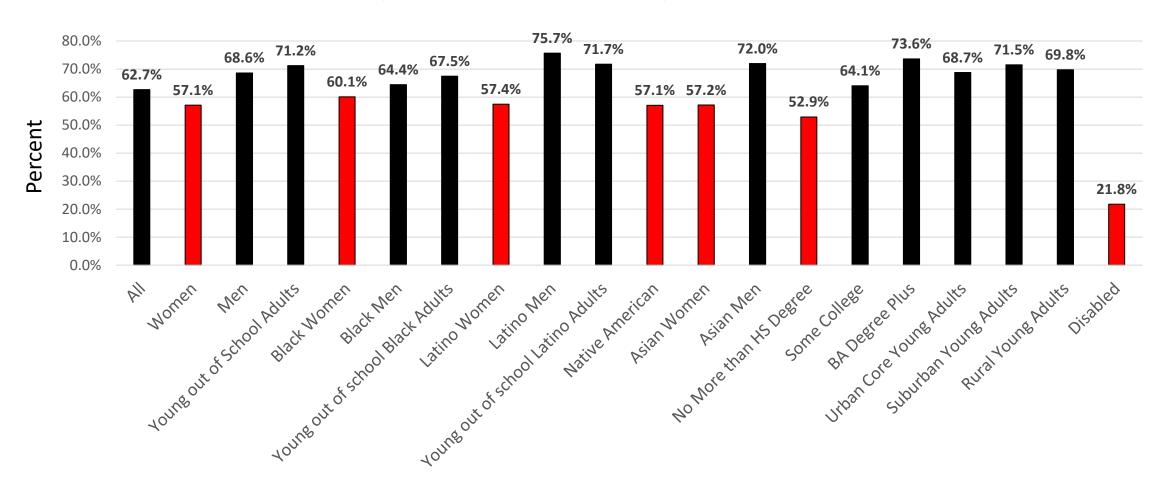
APPENDIX

Economic Vulnerability Evidence

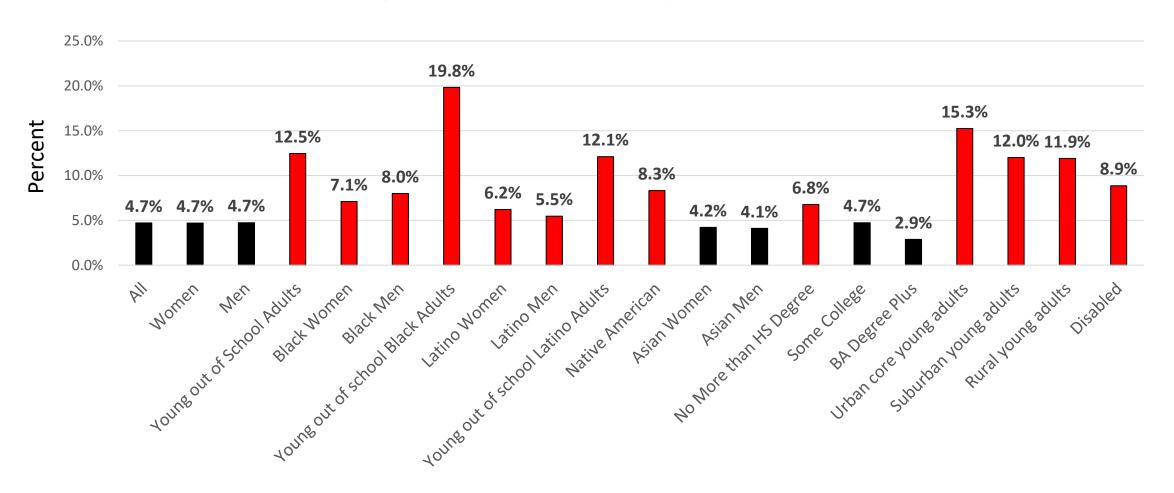
Average Employment-Population Ratios (January 2017 to September 2023)



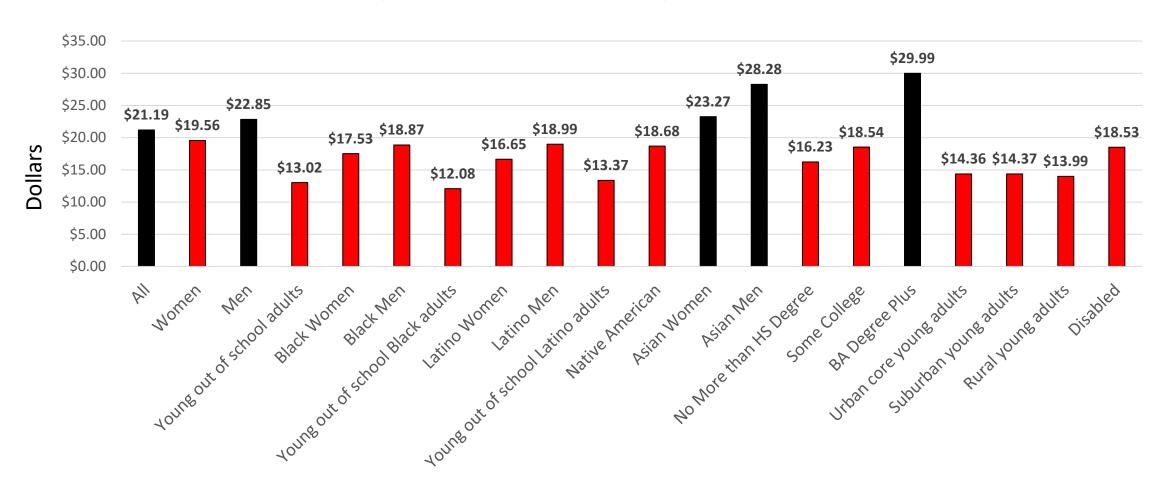
Average Labor Force Participation Rates (January 2017 to September 2023)



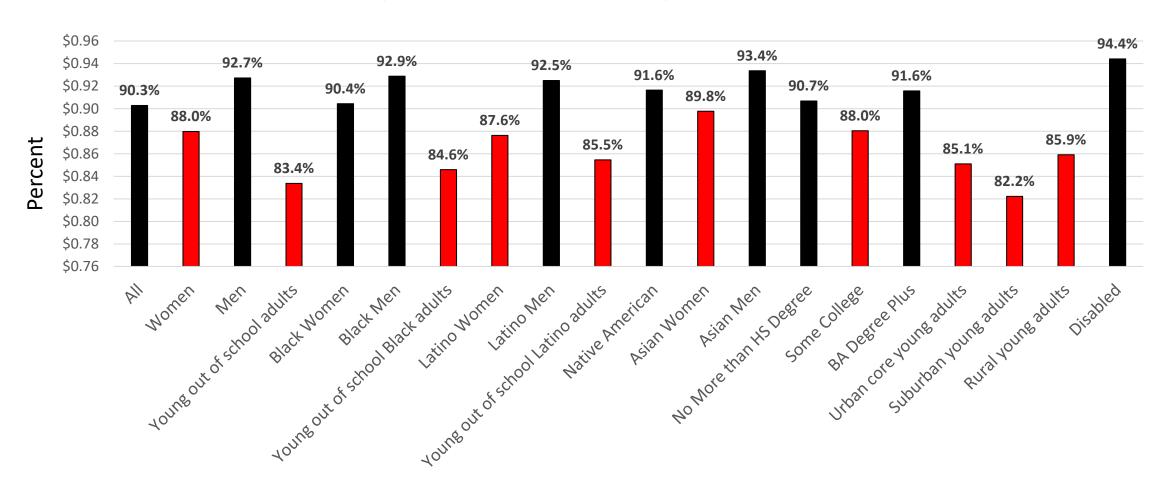
Average Unemployment Rates (January 2017 to September 2023)



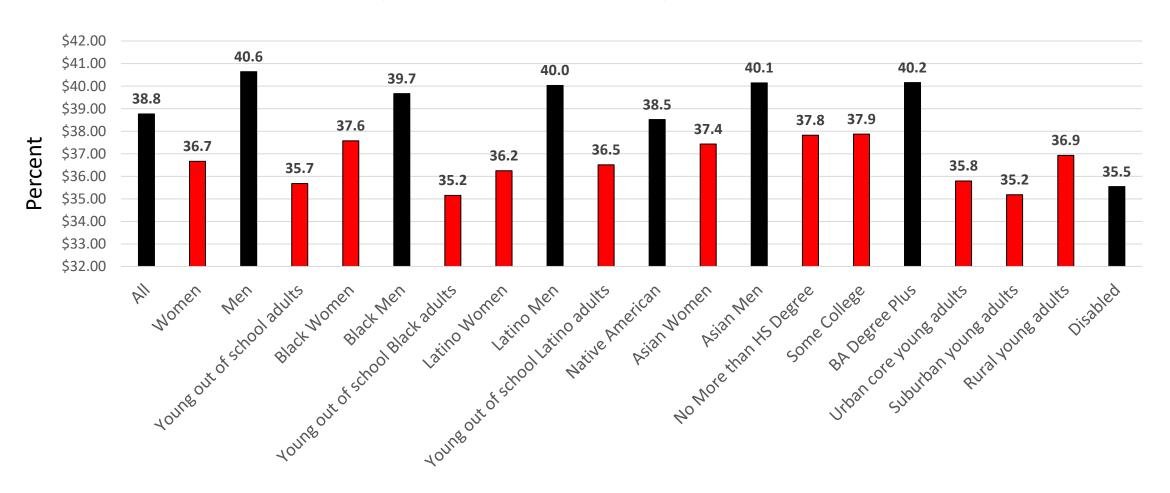
Average Nominal Hourly Wages (January 2017 to September 2023)



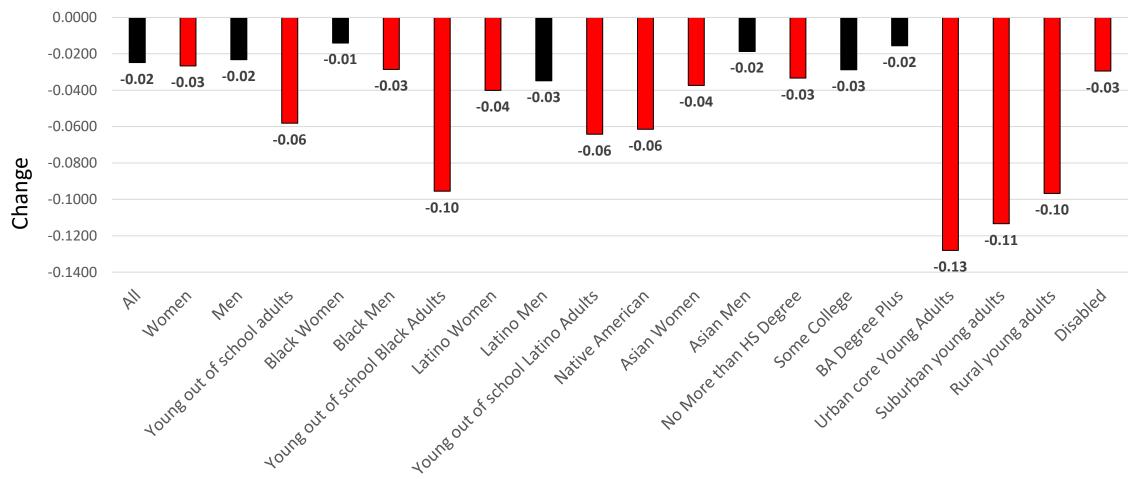
Percent Working Full-Time (January 2017 to September 2023)



Average Hours Worked Per Week (January 2017 to September 2023)



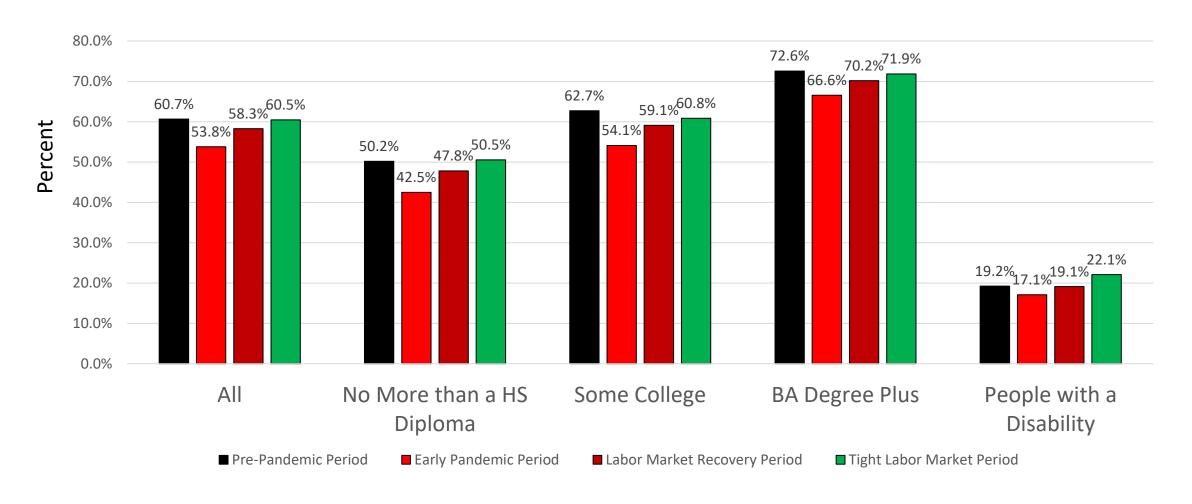
The impact of a 1 percentage point increase in the job openings rate on the probability of unemployment.



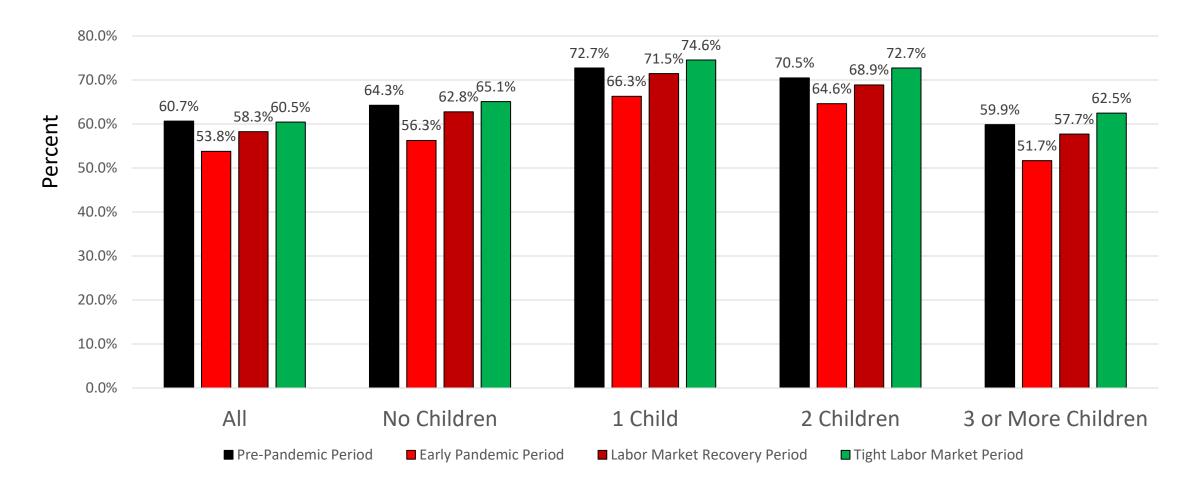
Notes: Estimates come from a regression of a dummy variable indicating whether the individual is unemployed on the natural logarithm of their state's job openings rate. All estimates are measured at a 1 percent level of significance. The unemployment micro data come from the monthly Current Population Surveys from January 2017 to September 2023. The job openings rates come from the Bureau of Labor Statistics JOLTS survey.

Comparisons Across Periods

Average Employment-to-Population Ratios (by Macro Period, Educational Attainment, and Disability)

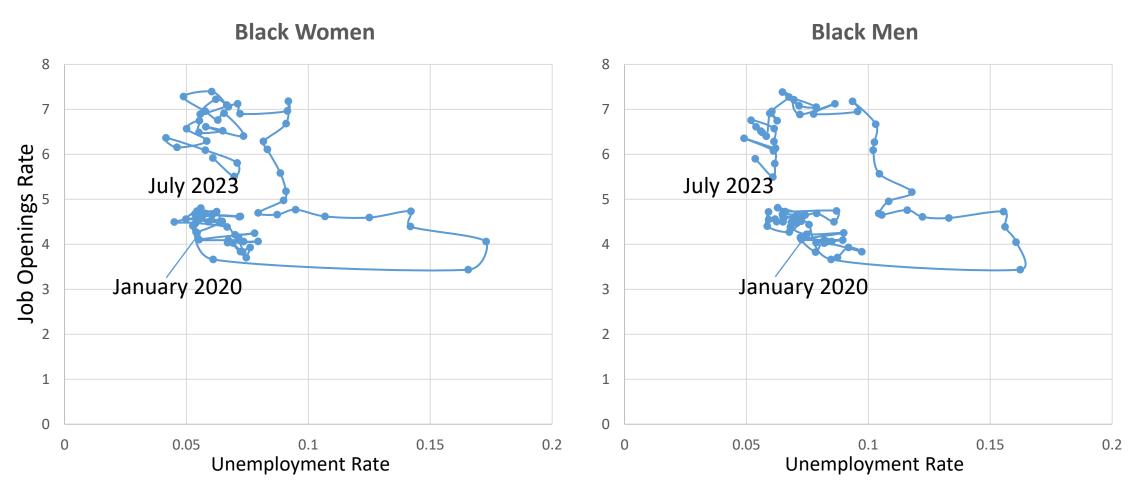


Average Employment-to-Population Ratios of Single Women (by Macro Period and Number of Children)

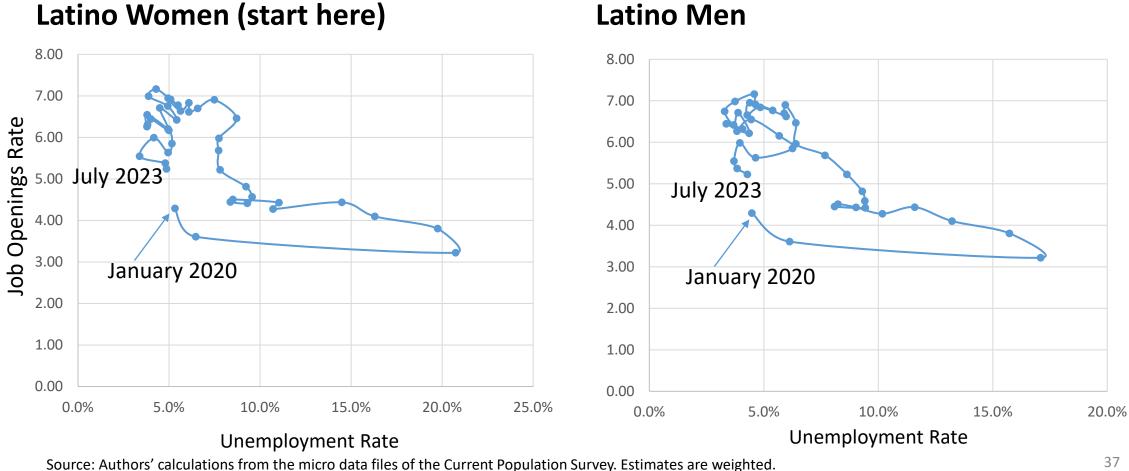


Analysis of Actual Beveridge Curves

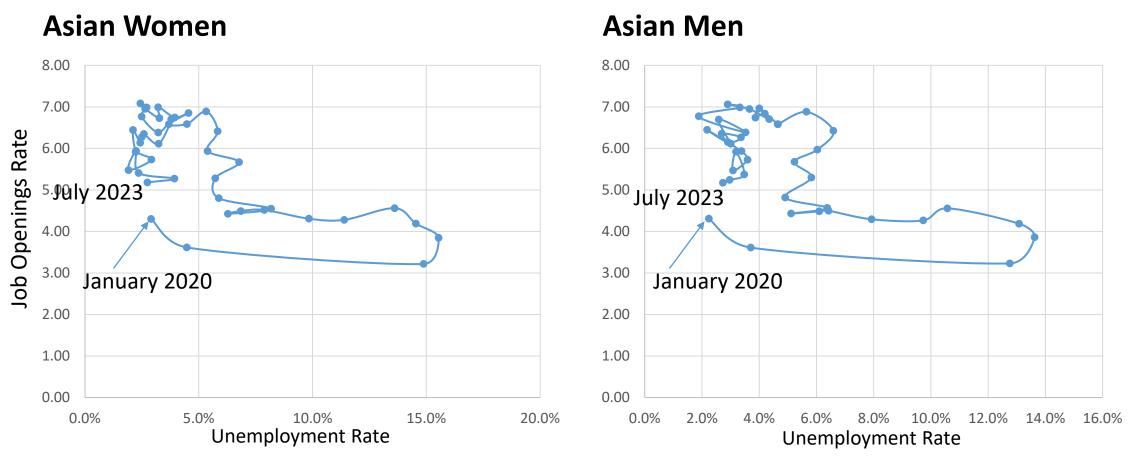
The unemployment rate of Black men has remained unchanged, while it has increased for Black women.



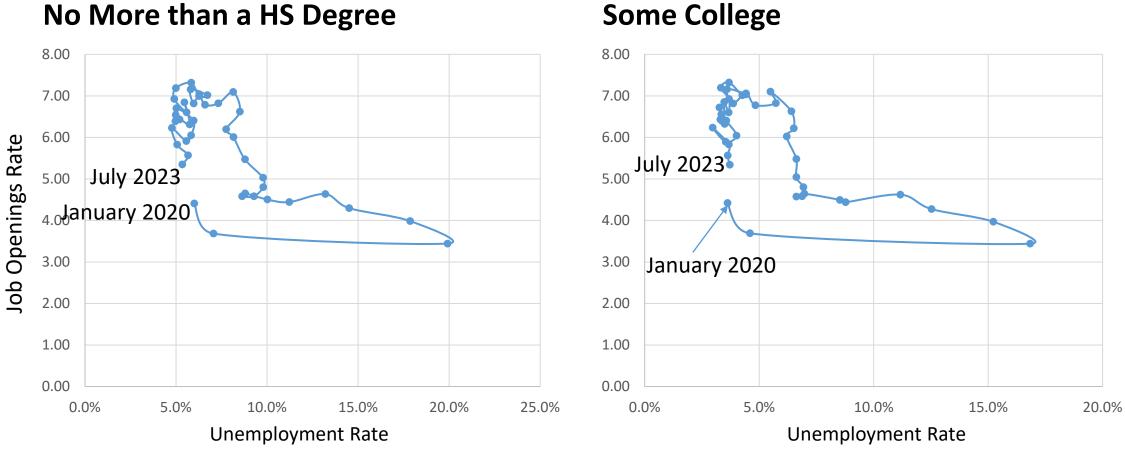
The jobless rates of Latino adults have not risen as job openings fell.



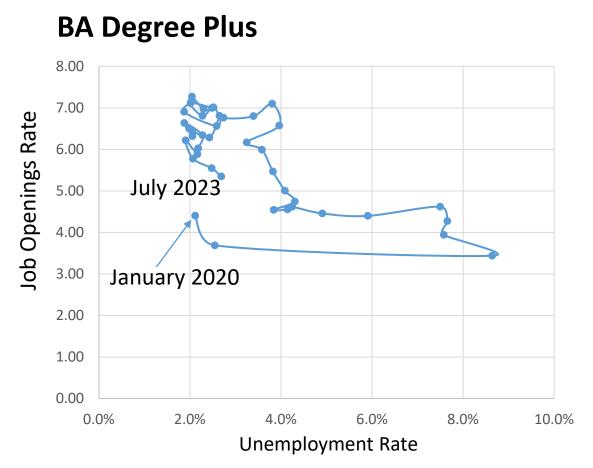
The unemployment rates of Asians have not increased as job openings fell.



The unemployment rates of the least educated have not risen as job openings fell.



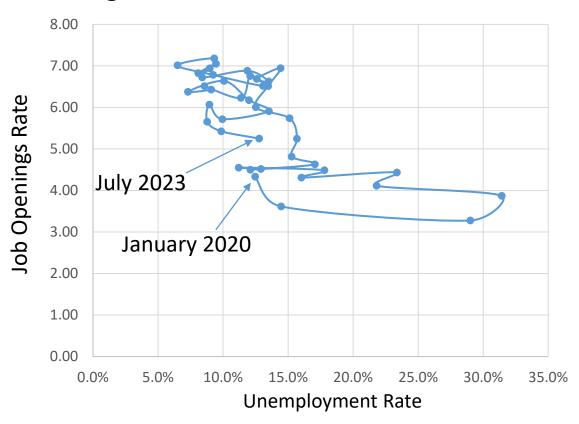
The unemployment rate of BA Degree plus individuals has ticked up.



Source: Authors' calculations from the micro data files of the Current Population Survey. Estimates are weighted.

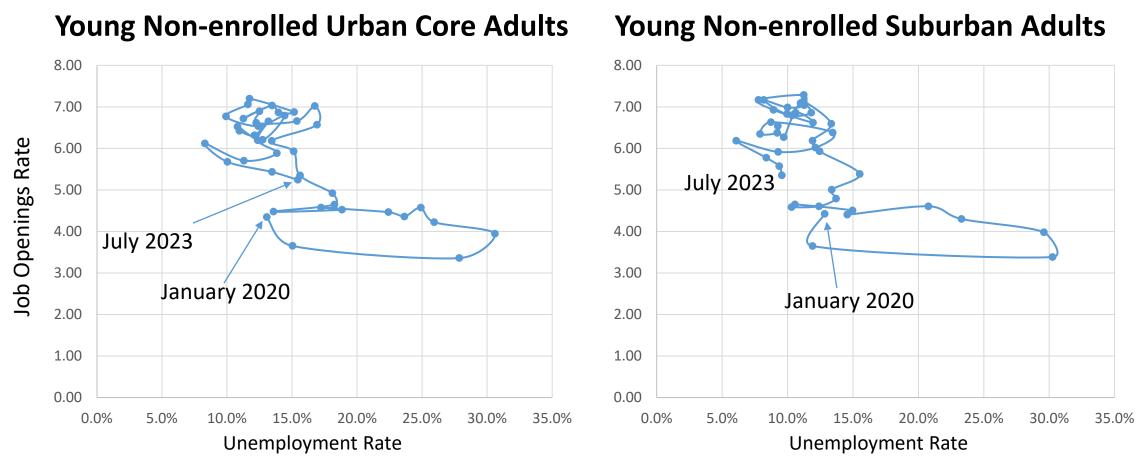
The unemployment rate of out of school young Latinos has edged up.



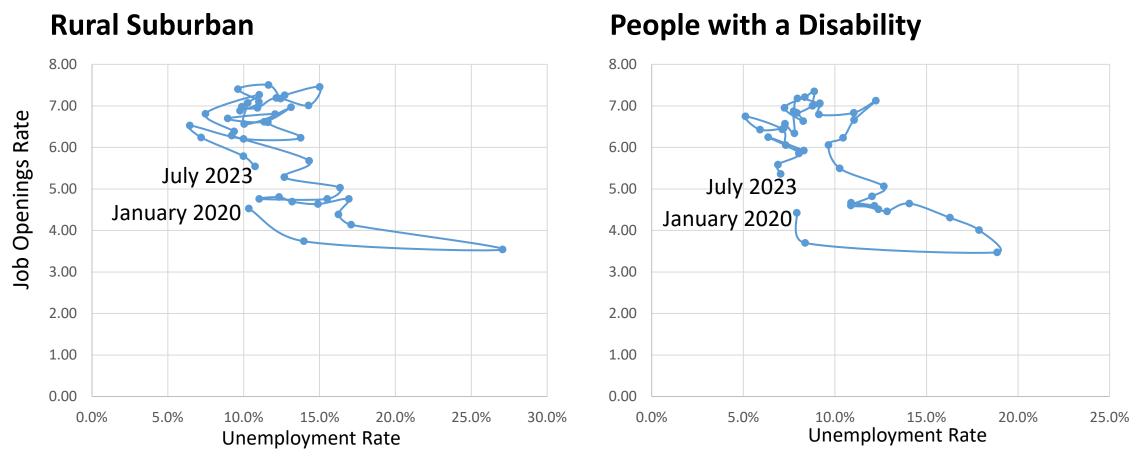


Source: Authors' calculations from the micro data files of the Current Population Survey. Estimates are weighted.

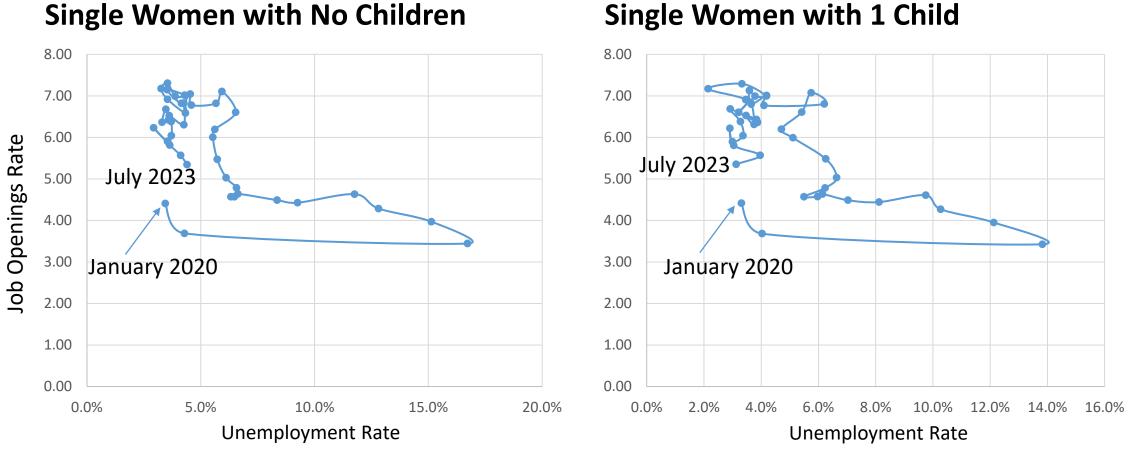
Out of school urban core and suburban young adults may be experiencing a tick up in unemployment as job openings fell.



Out of school rural young adults may be experiencing a tick up in unemployment, while people with a disability has not.



The unemployment rate of single women with three or more children has begun to increase with the fall in job openings.



The unemployment rate of single women with three or more children has begun to increase with the fall in job openings, cont.

