

UPDATED THROUGH MAY 2024 | REGIONAL

EQUITABLE GROWTH INDICATORS

Raji Chakrabarti, Kasey Chatterji-Len, and Maxim Pinkovskiy

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Full Report Highlights

- **INFLATION**

Inflation rates have converged across groups with different incomes and ages, as well as, to a lesser extent, education levels. This is in part because of rising inflation in a variety of important consumption categories in the region.

- **EARNINGS**

Average real earnings are higher in the region compared to the national average. Real earnings gaps across racial and ethnic groups, educational groups, and between men and women have remained in their long-run ranges, though the Black earnings gap and the gender earnings gap are slowly shrinking over time.

- **EMPLOYMENT**

Labor market gaps have declined in the region at rates similar to those of the nation as a whole. In particular, the gender gap in the region has declined faster and fallen lower than the national gender gap. On the other hand, employment and LFP gaps for Black workers relative to white workers tend to be wider in the region than in the nation, though for unemployment gaps the reverse is true.

INFLATION

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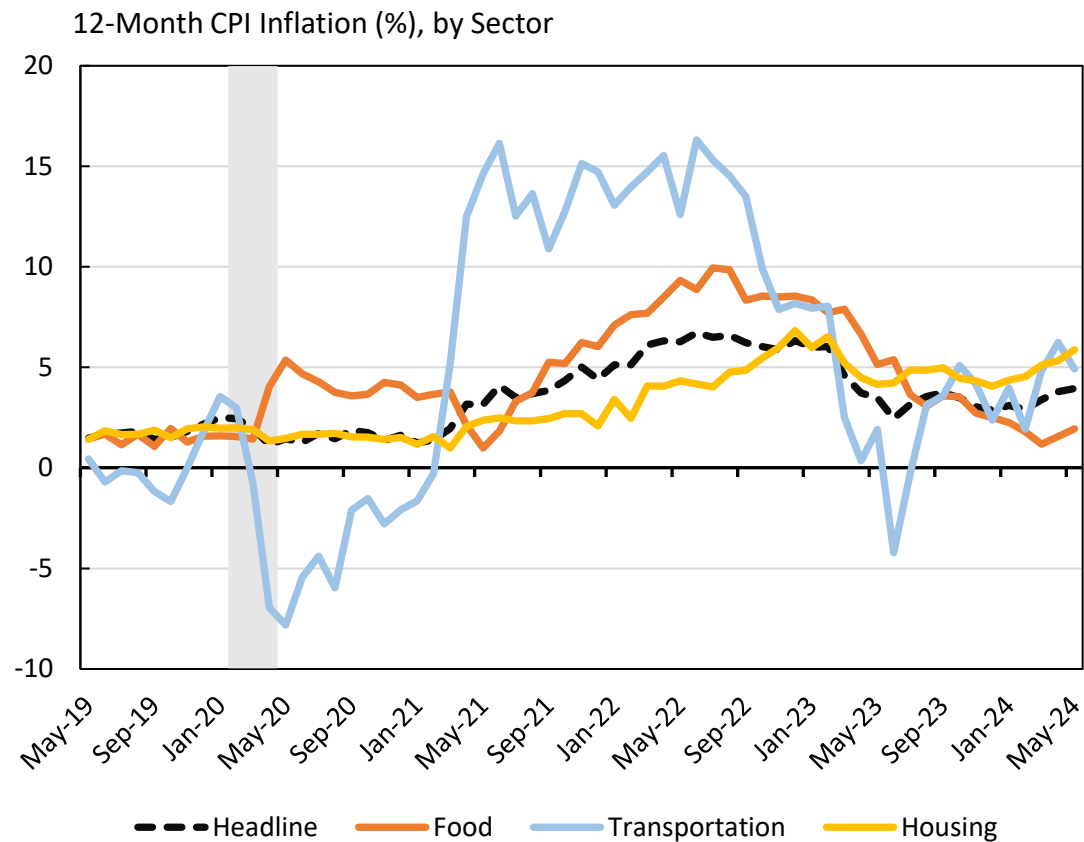
Takeaways | Inflation

- Inflation in the Second District has risen faster than in the nation over 2024:Q2 and now stands higher than in the nation.
- Hispanic households in the region experienced inflation that is around 0.5 percentage point lower than the regional average in May 2024, while Black and AAPI households experienced inflation that is above this average, and white households experienced the regional average inflation.
- Inflation for households of different incomes largely converged in May 2024, as did, to a lesser extent, inflation for households of different education levels.
- Inflation gaps in the Second District were much larger during the 2021-22 inflationary episode, when groups with high exposure to transportation inflation (Hispanic, middle- and high-income, non-college, and middle-age households) had inflation well above the region average. These gaps have now subsided.

Data & Methods

- Data on inflation by demographic groups are not produced by the Bureau of Labor Statistics.
- To calculate demographic inflation, we exploit the fact that the Consumer Expenditure Survey (CEX) can be used to compute spending shares of various consumption categories (for example, cereal, rent, and used cars) by demographic group (for example, Black, Hispanic, some college, and aged 45-54).
- We define the region in the CEX to be the union of the New York-New Jersey metro area (excluding counties in Pennsylvania) with all other counties in New York state.
- To compute the contribution of a consumption category in a particular city to demographic inflation for a specific group, we take that group's spending share on that category in that city (from the CEX) in the previous year and multiply it by the twelve-month inflation for that consumption category in that city (from the Consumer Price Index).
- We then add up all the contributions to get an inflation index for the demographic group.
- Our method is similar to the previous literature, for example, Hobijn and Lagakos (2005), McGranahan and Paulson (2006), and Jaravel (2019). We are the first to exploit price variation across cities whereas the above-mentioned studies assume people in different demographic groups and cities face the same prices.

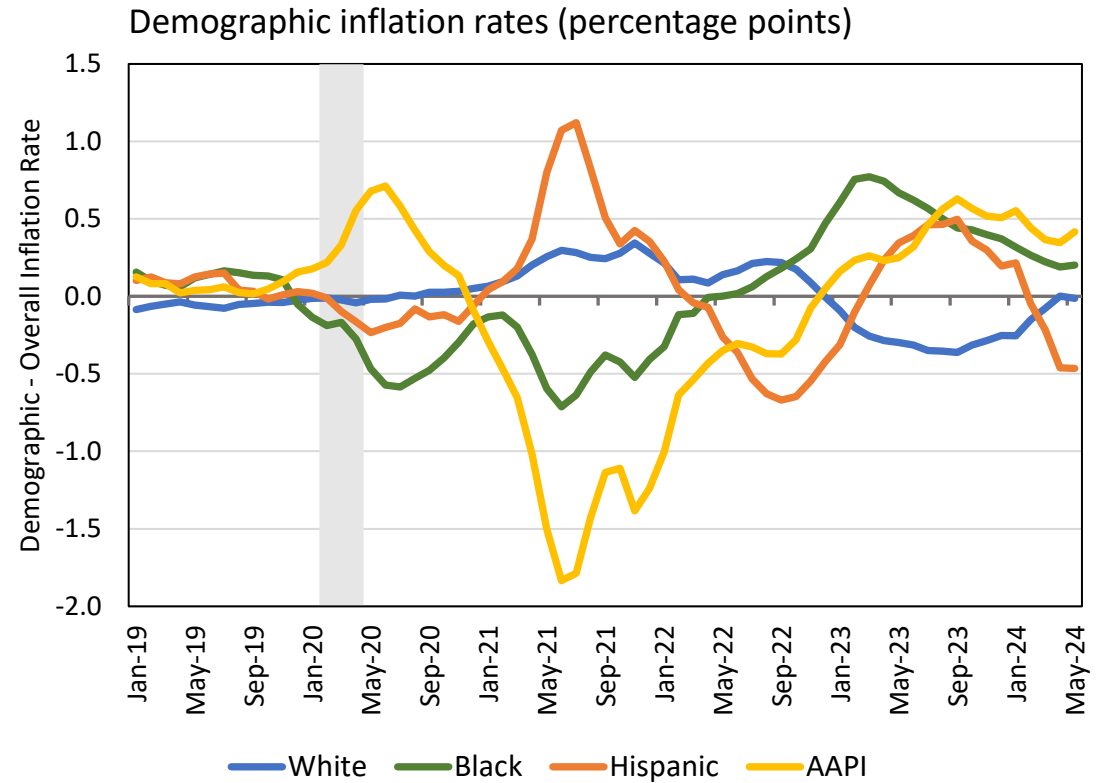
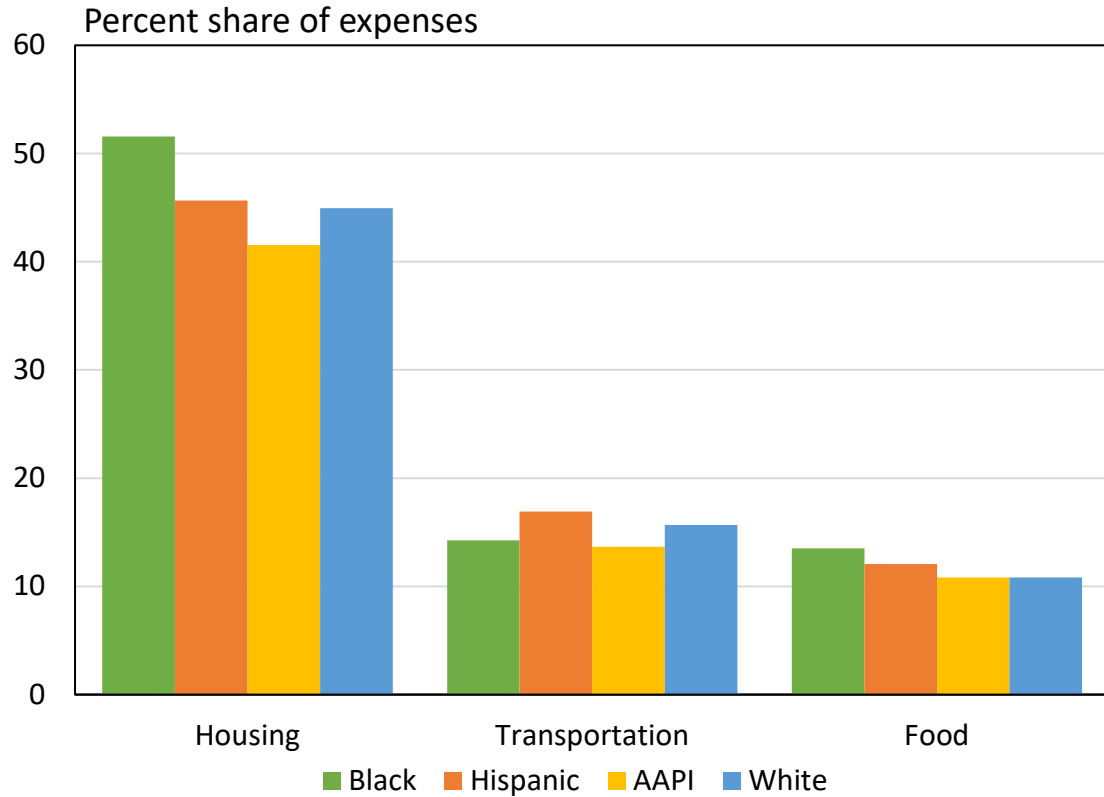
Inflation by Sector



Sources: CPI via Haver Analytics; authors' calculations.

Note: Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

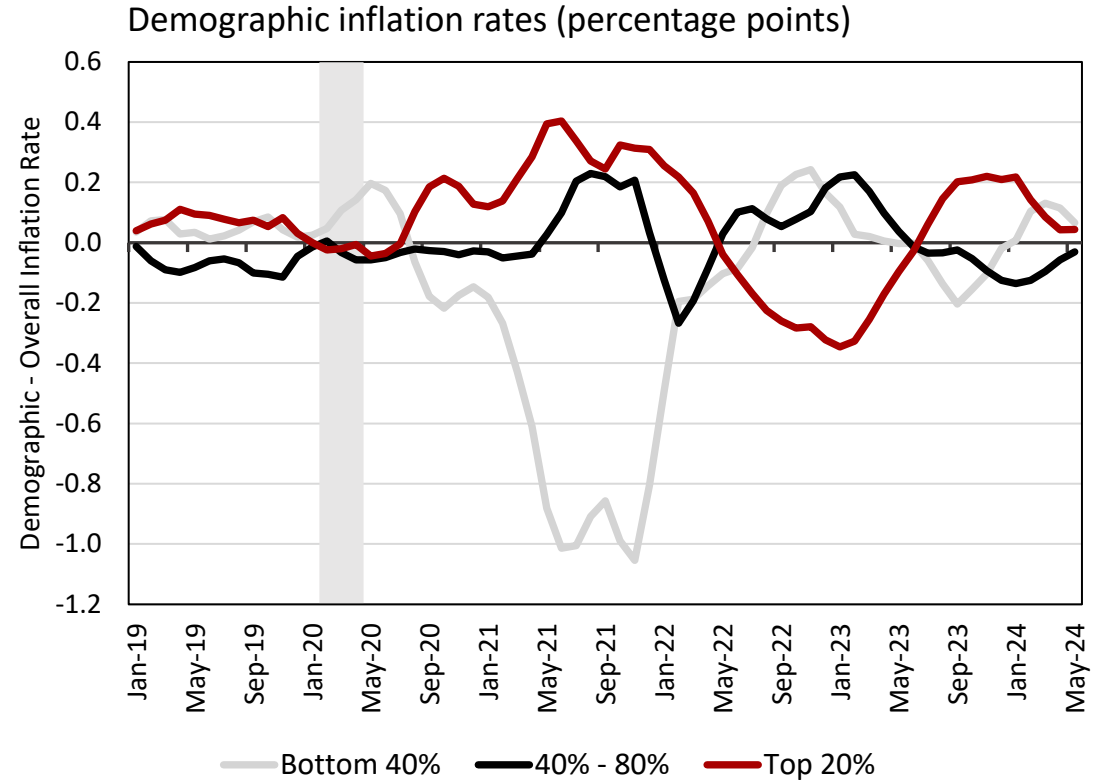
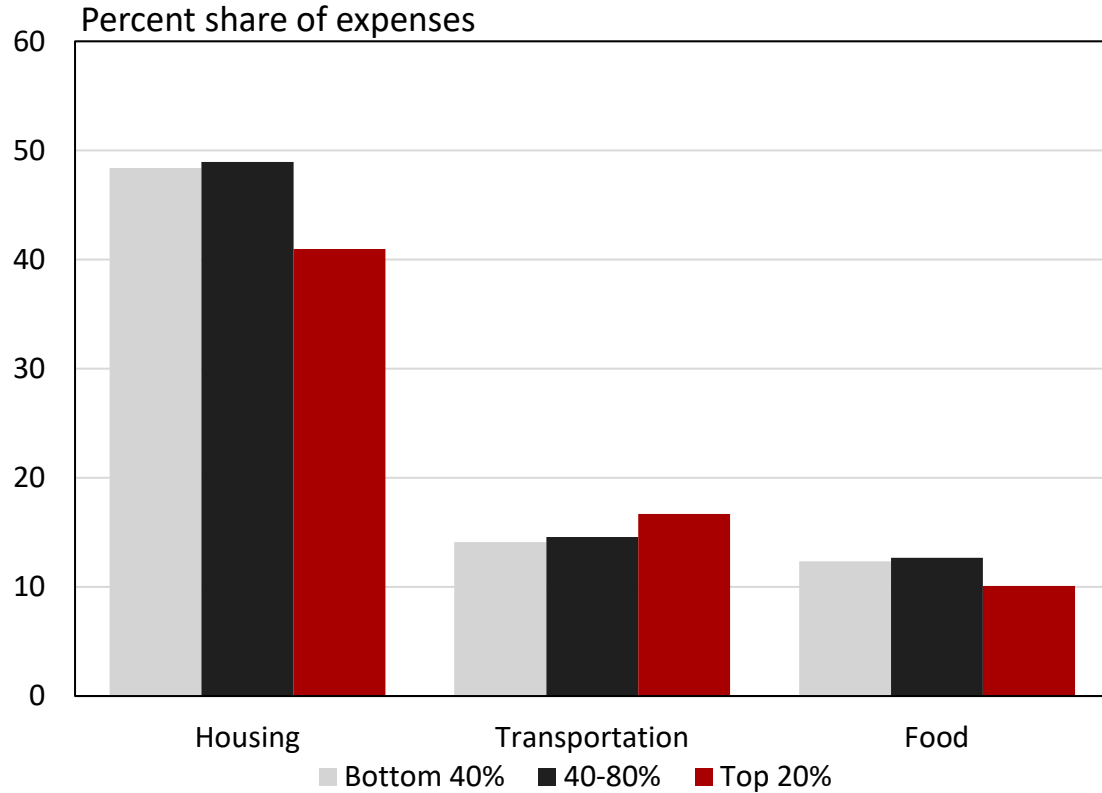
Demographic Inflation by Race/Ethnicity



Sources: BLS Consumer Expenditure Survey microdata; BLS Consumer Price Indexes.

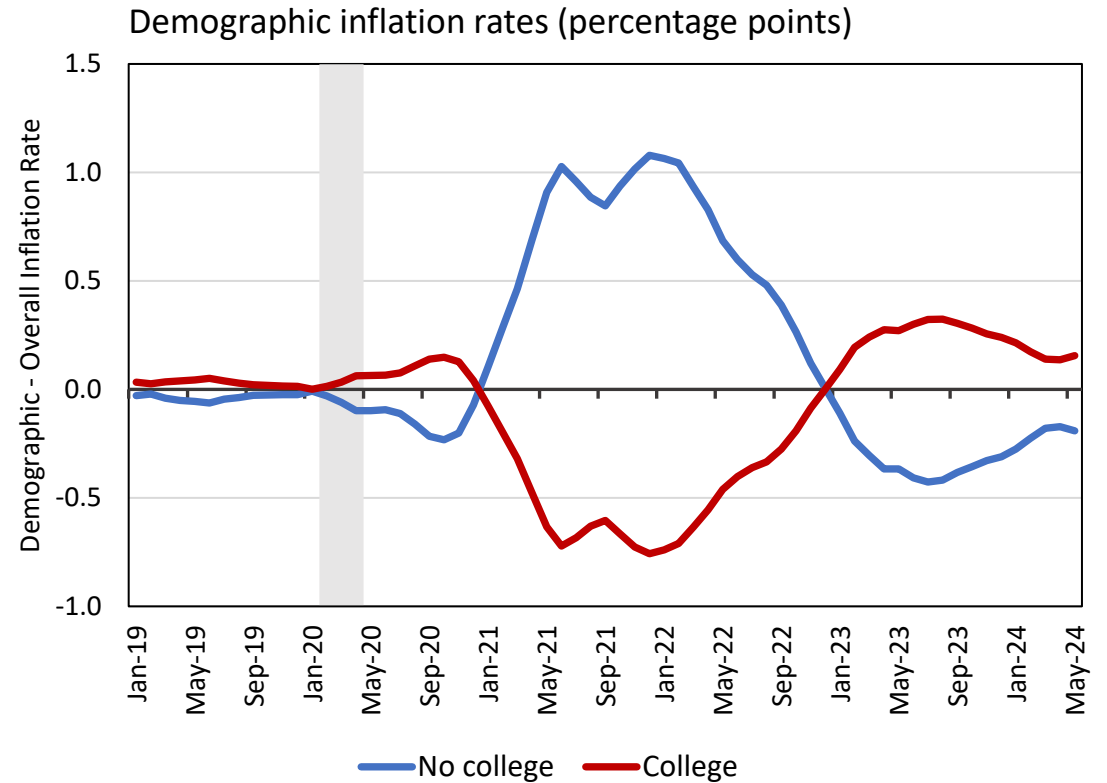
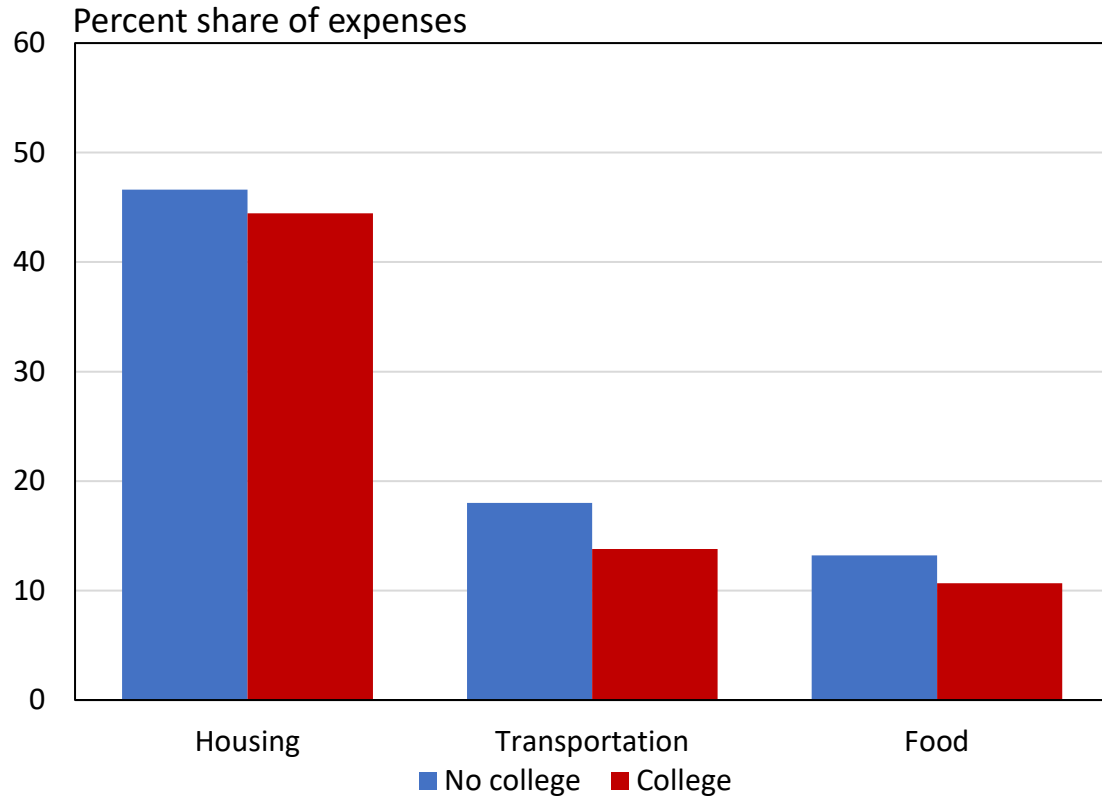
Notes: Expenditure shares use 2021 CEX microdata. Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Demographic Inflation by Income



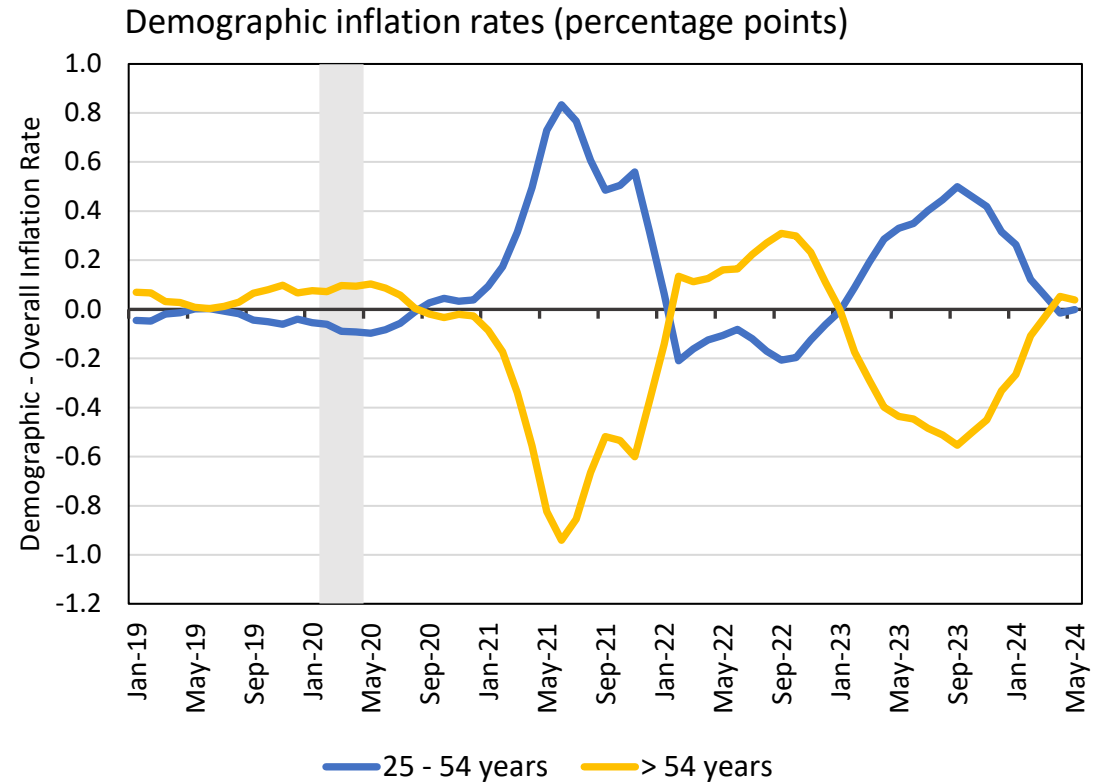
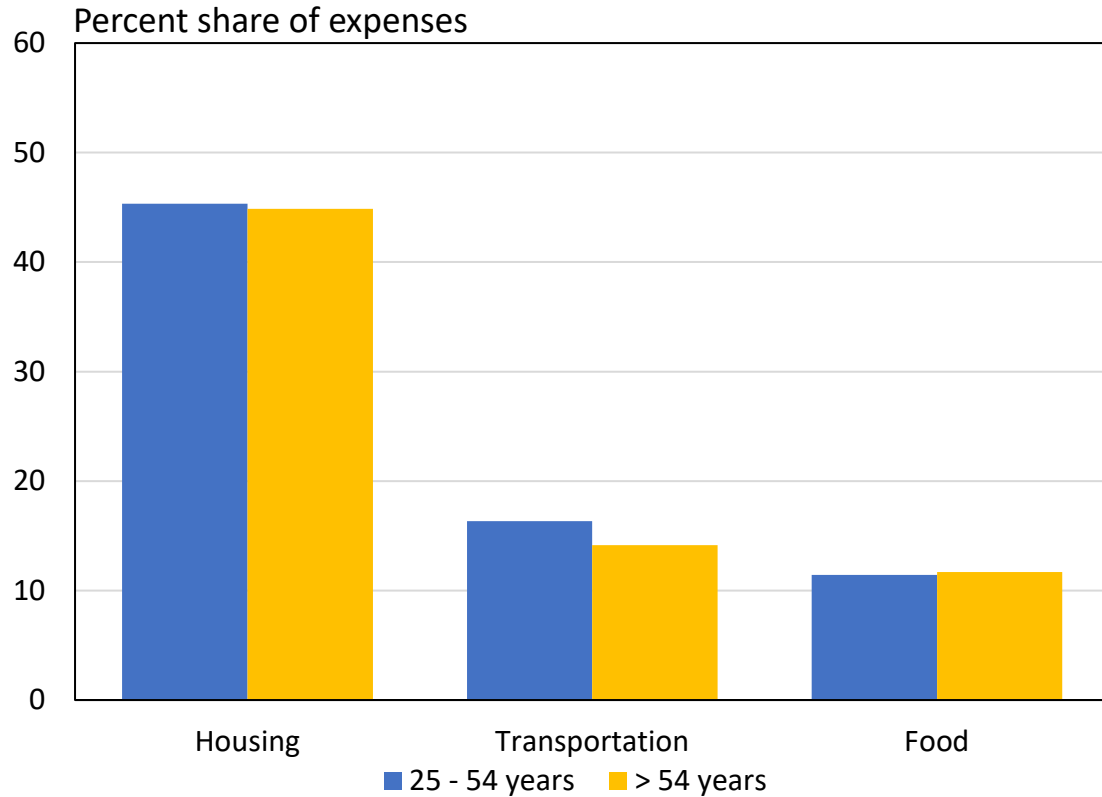
Sources: BLS Consumer Expenditure Survey microdata; BLS Consumer Price Indexes.
 Notes: Expenditure shares use 2021 CEX microdata. Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Demographic Inflation by Education



Sources: BLS Consumer Expenditure Survey microdata; BLS Consumer Price Indexes.
 Notes: Expenditure shares use 2021 CEX microdata. Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Demographic Inflation by Age



Sources: BLS Consumer Expenditure Survey microdata; BLS Consumer Price Indexes.
 Notes: Expenditure shares use 2021 CEX microdata. Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

EARNINGS

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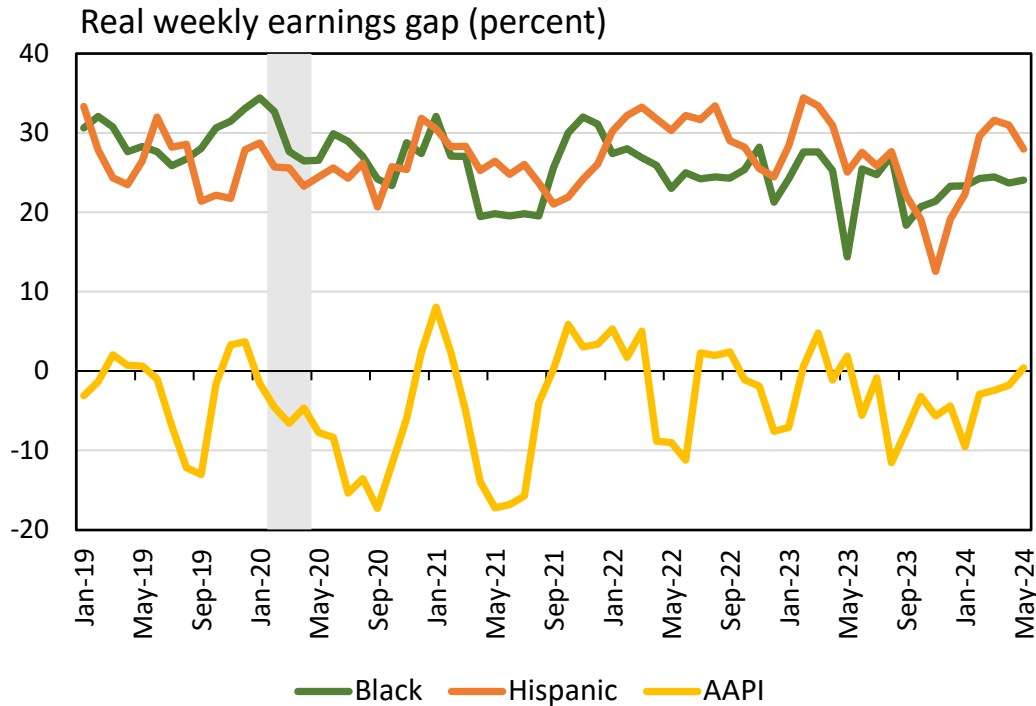
Takeaways | Earnings

- Similar to the rest of the nation, real earnings in the region peaked during the pandemic recession and have fallen since, and disparities (both nominal and real) are largest across education categories, with smaller but still substantial gaps across racial and ethnic categories, gender, and age.
- The average earnings for the region are higher than in the rest of the country.
- The Black and Hispanic earnings gaps remain in the 20%-30% range, although there are indications that they have declined relative to the pre-pandemic period. In particular, the Black-white earnings gap stands at 24.06 percentage points in May 2024, compared to 28.28 percentage points in May 2019.
- The gender gap has declined to 13.3 percentage points in May 2024 relative to 20.8 percentage points in May 2019, consistent with it declining in the region as well as in the nation.
- The college premium remains in the 80%-100% range in which it has been since January 2019. The college premium in the region tends to be somewhat higher than in the nation as a whole.

Data & Methods

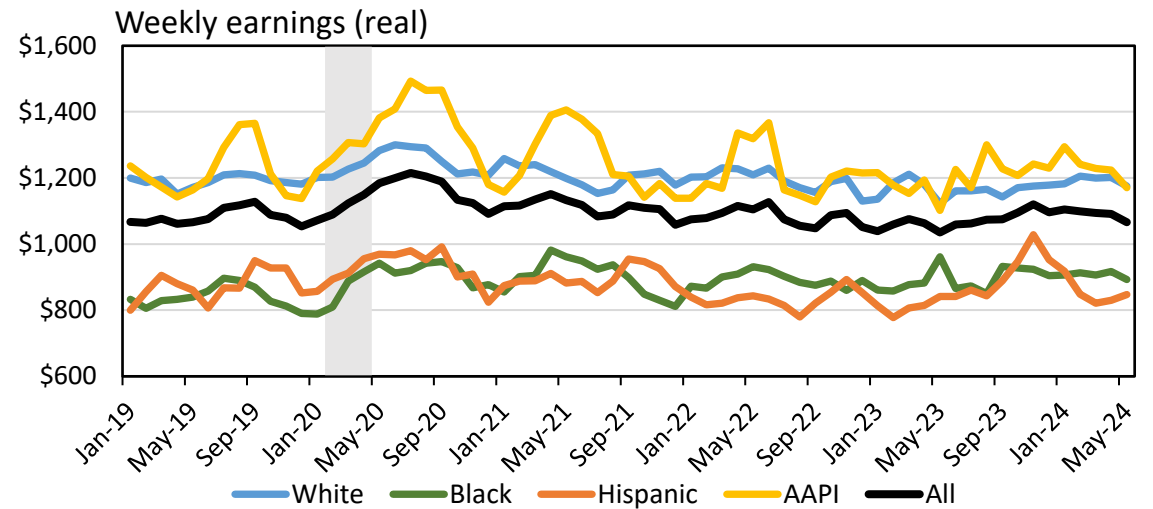
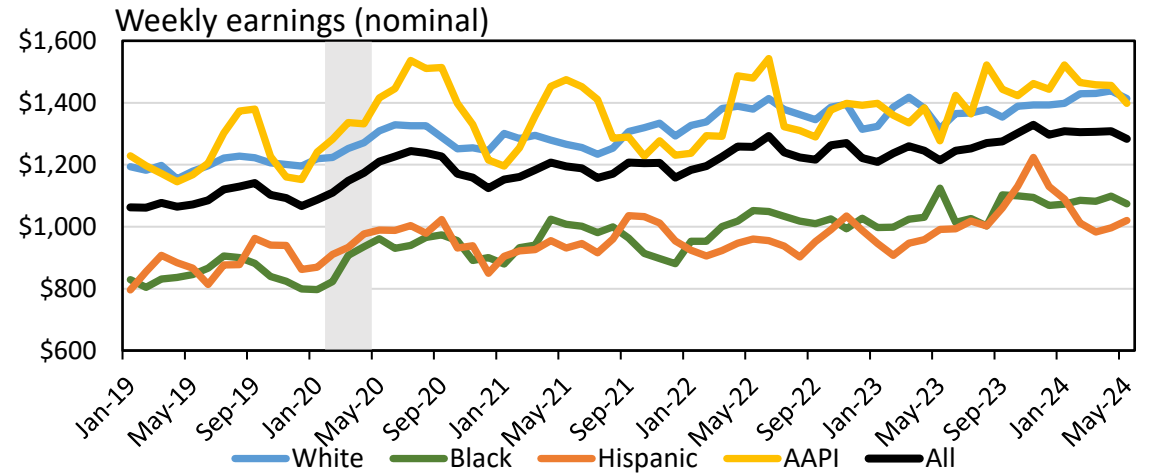
- We compute real earnings by deflating nominal earnings for each demographic using our estimates of demographic-specific inflation.
- Gaps are defined as the percentage difference in earnings between a majority group and a minority group in the labor market.
- The gender gap is defined as the percentage difference between male and female earnings.
- The racial gaps are defined as the percentage differences between earnings of white non-Hispanic workers and earnings of workers of the race or ethnicity in question.
- The college premium is defined as the percentage difference between earnings of college graduates and earnings of workers who did not graduate from college.
- We define the region in the CPS to be the union of the New York-New Jersey metro area (excluding counties in Pennsylvania) with all other counties in New York state.

Real/Nominal Earnings by Race/Ethnicity



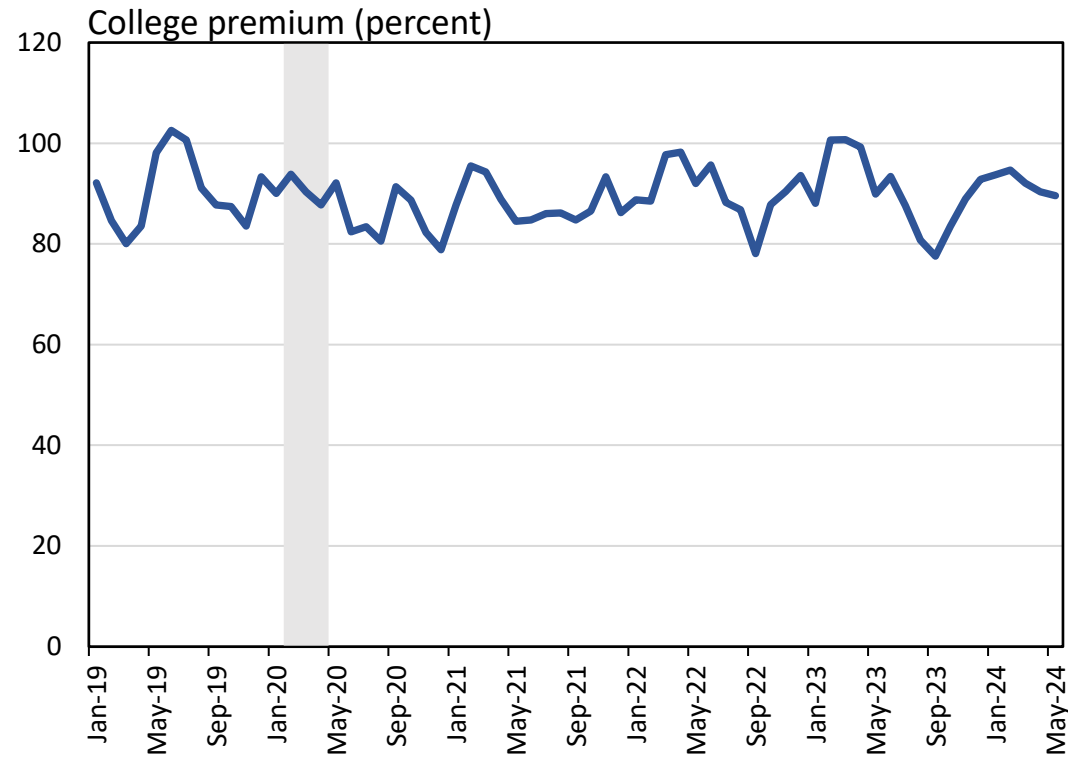
Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Real earnings uses corresponding demographic prices, indexed to June 2019. Shaded region indicates the COVID-19 recession. The race gap is defined here as the percent less in real earnings that the average Black/Hispanic/AAPI American earns on average compared to white Americans. For instance, a gap of 20% implies that the average Black/Hispanic/AAPI American earns 80% of the average white American. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.



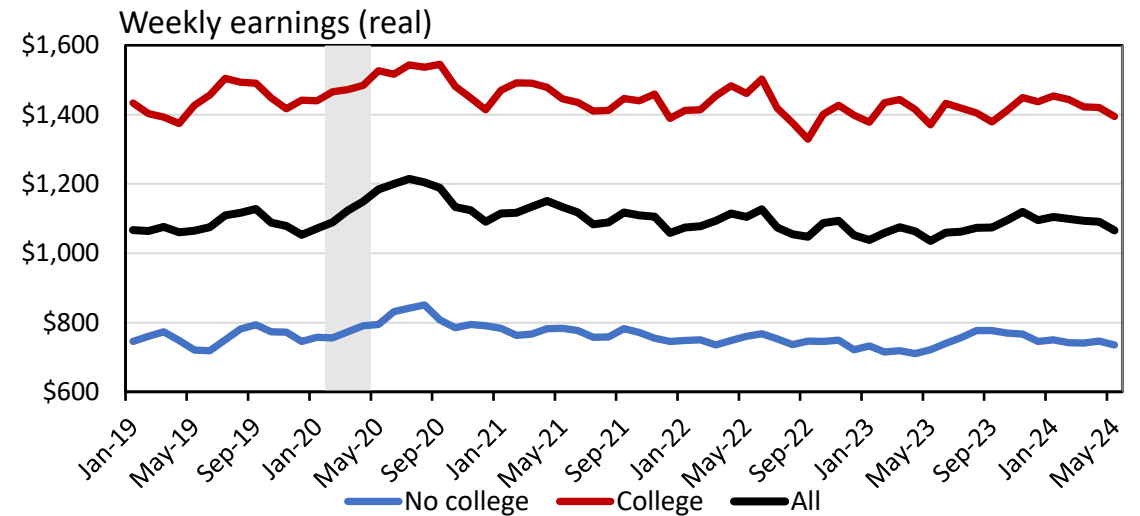
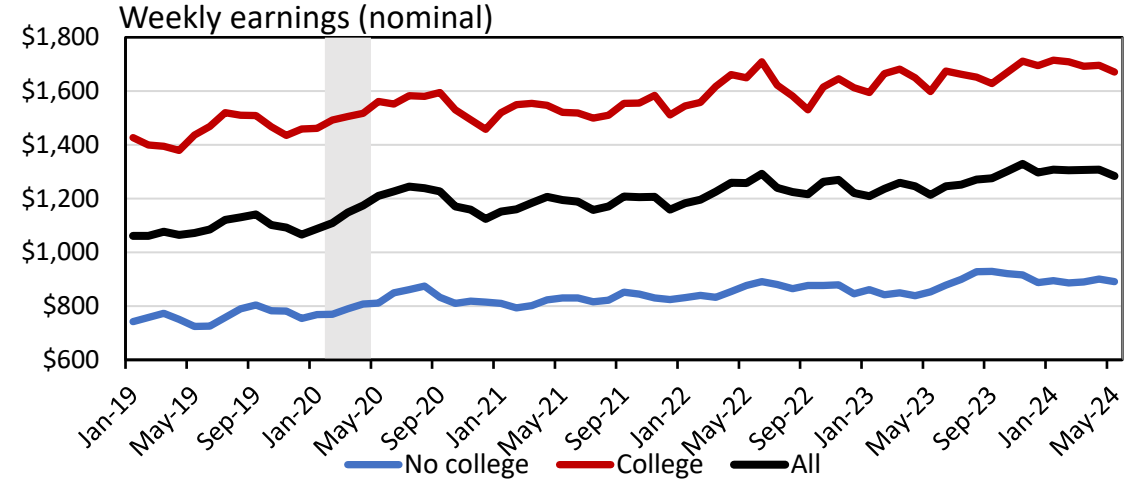
Individual weekly earnings from April 2023 onward are top coded to \$2884.61, in accordance with pre-April 2023 CPS data conventions for continuity.

Real/Nominal Earnings by Education



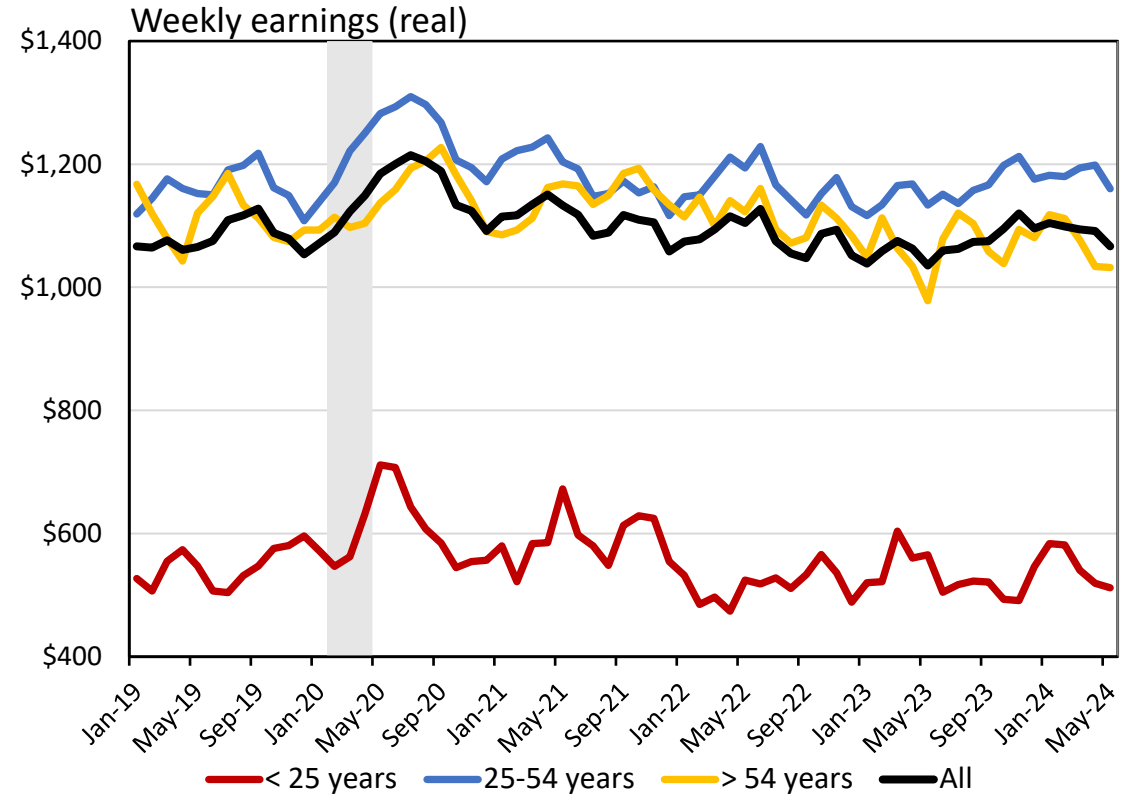
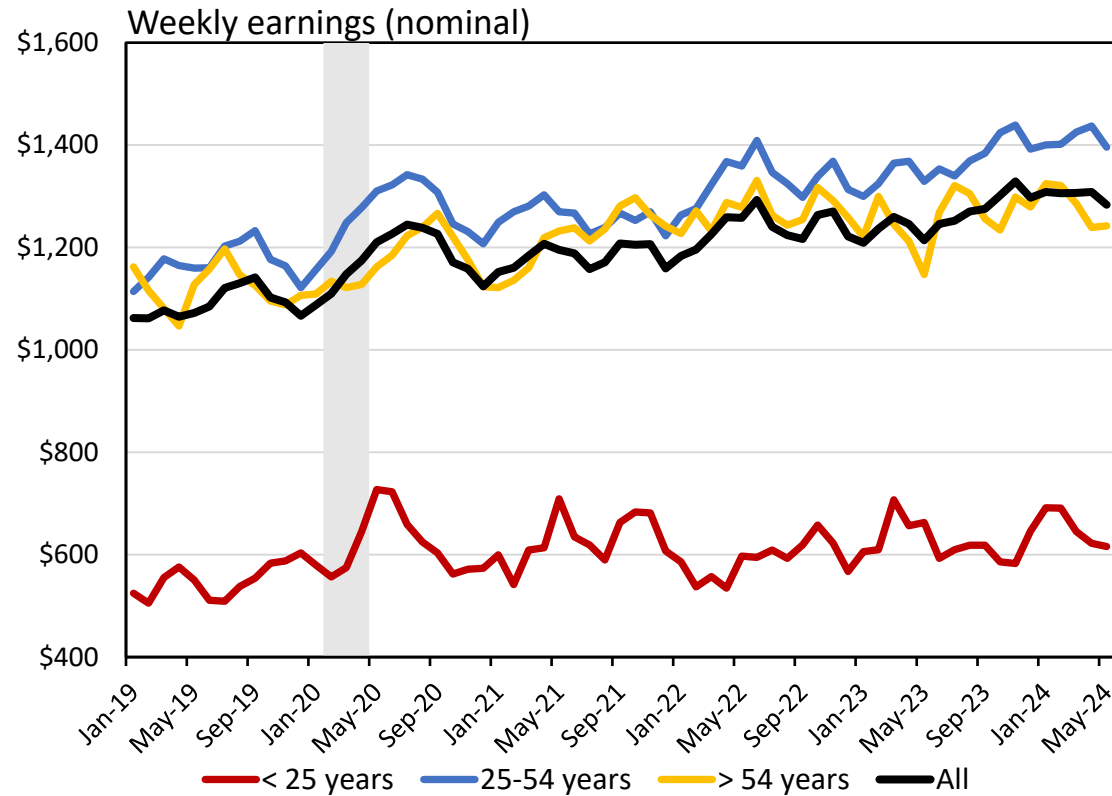
Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Real earnings uses corresponding demographic prices, indexed to June 2019. Shaded region indicates the COVID-19 recession. College premium is defined here as the percent more that college graduates earn (weekly) on average compared to non-graduates. For instance, a gap of 80% implies that the average graduate earns 80% more than the average non-graduate. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.



Individual weekly earnings from April 2023 onward are top coded to \$2884.61, in accordance with pre-April 2023 CPS data conventions for continuity.

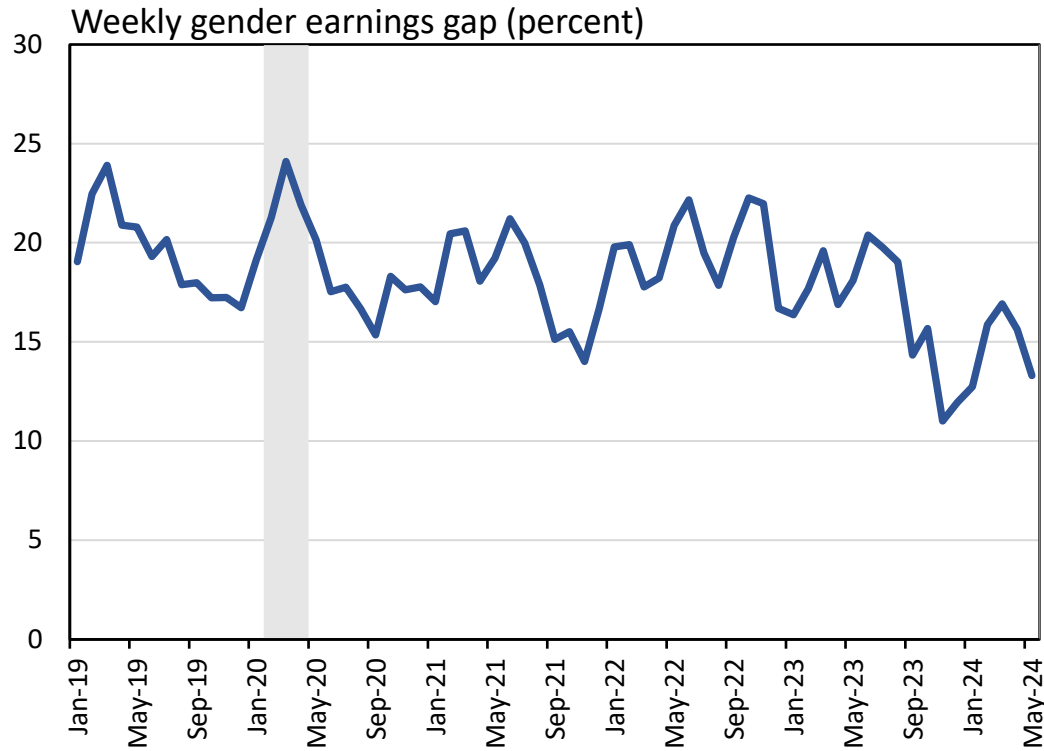
Real/Nominal Earnings by Age



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.
 Notes: Real earnings uses corresponding demographic prices, indexed to June 2019. Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

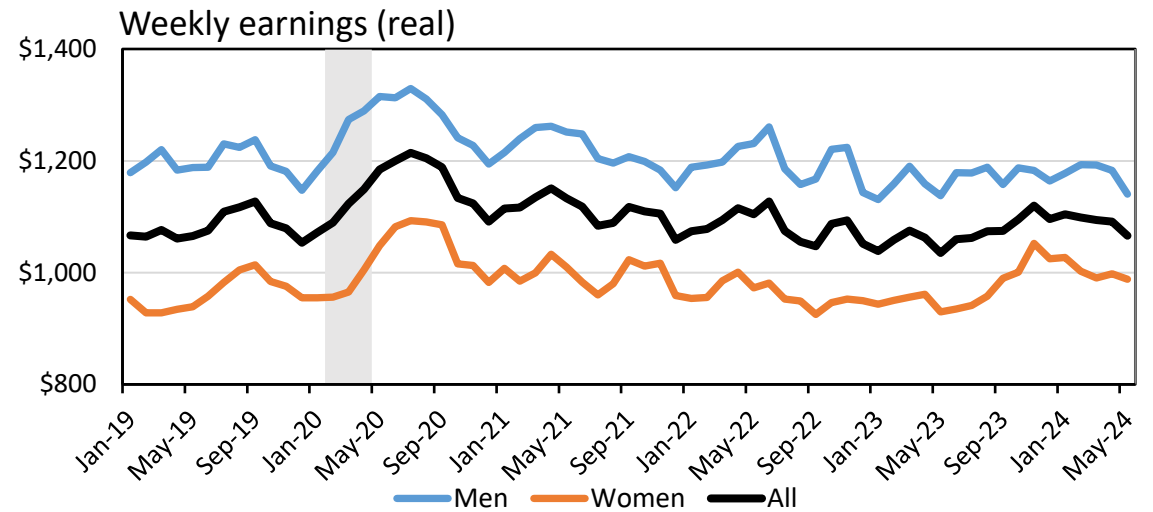
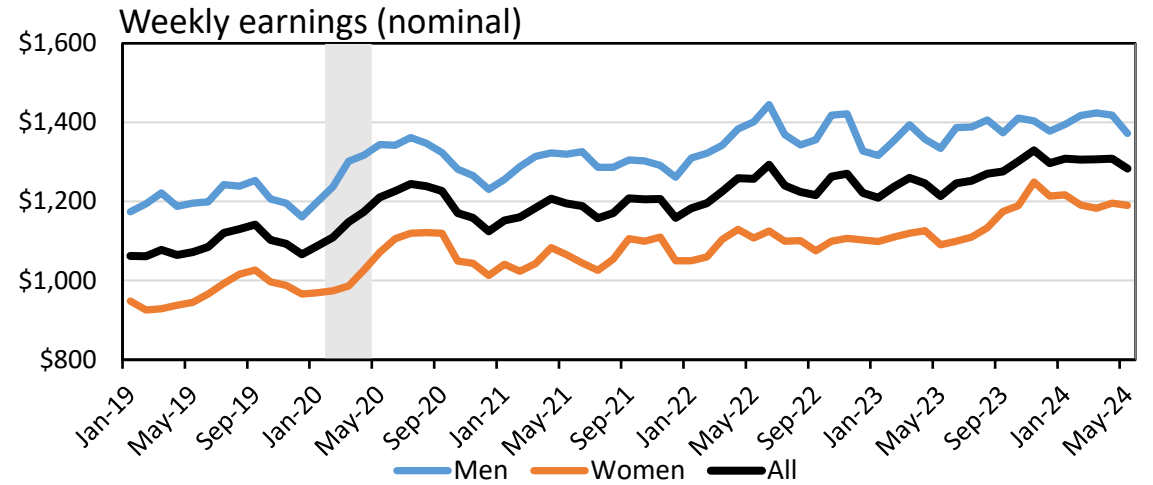
Individual weekly earnings from April 2023 onward are top coded to \$2,884.61, in accordance with pre-April 2023 CPS data conventions for continuity.

Real/Nominal Earnings by Gender



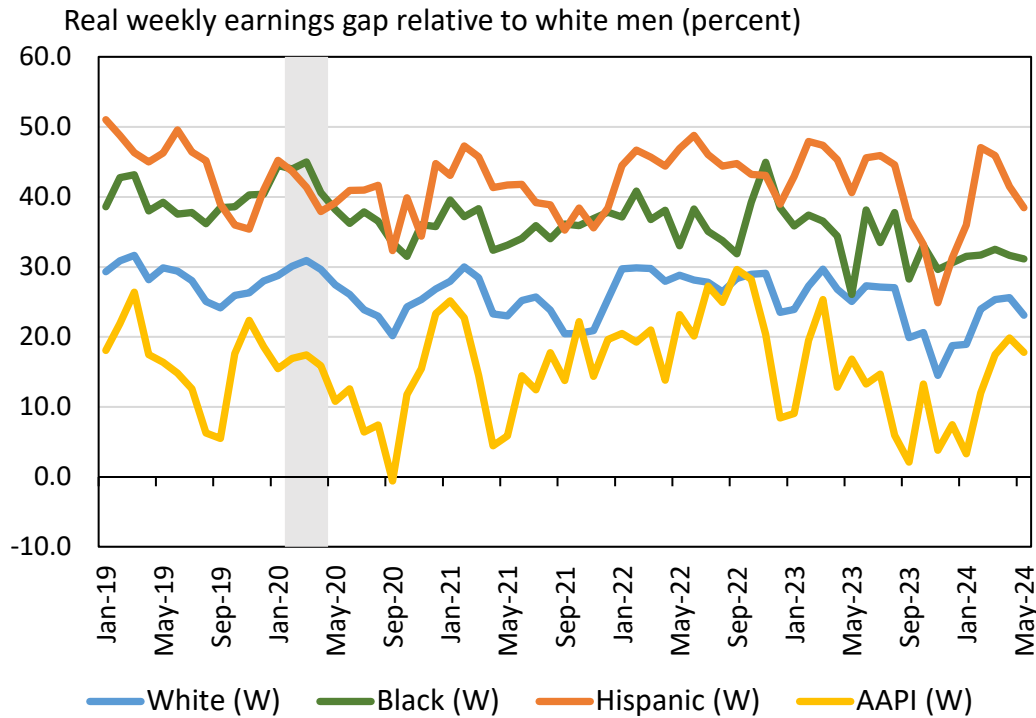
Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Real earnings uses corresponding demographic prices, indexed to June 2019. Shaded region indicates the COVID-19 recession. The gender gap is defined here as the percent less that women earn on average compared to men. For instance, a gap of 20% implies that the average woman earns 80% of the average man. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.



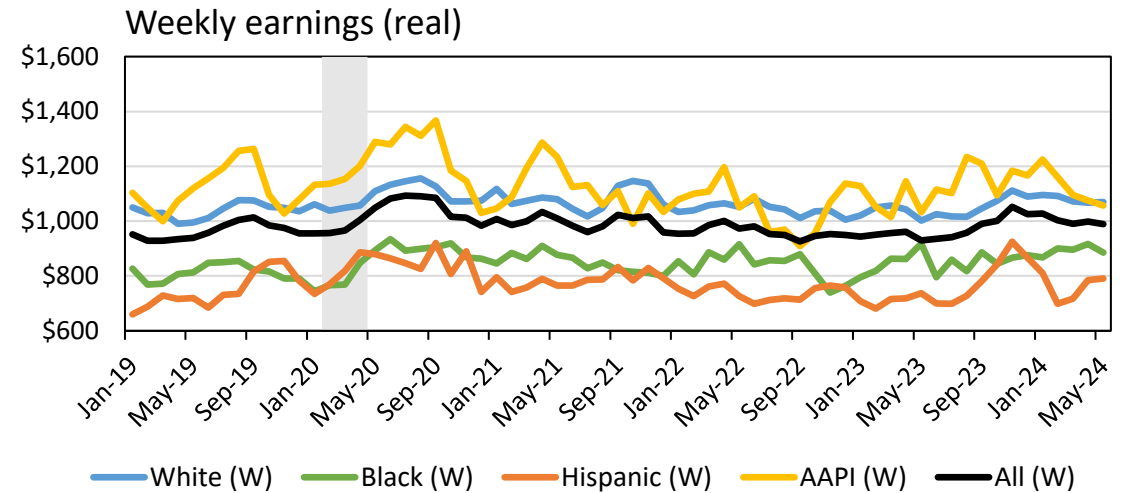
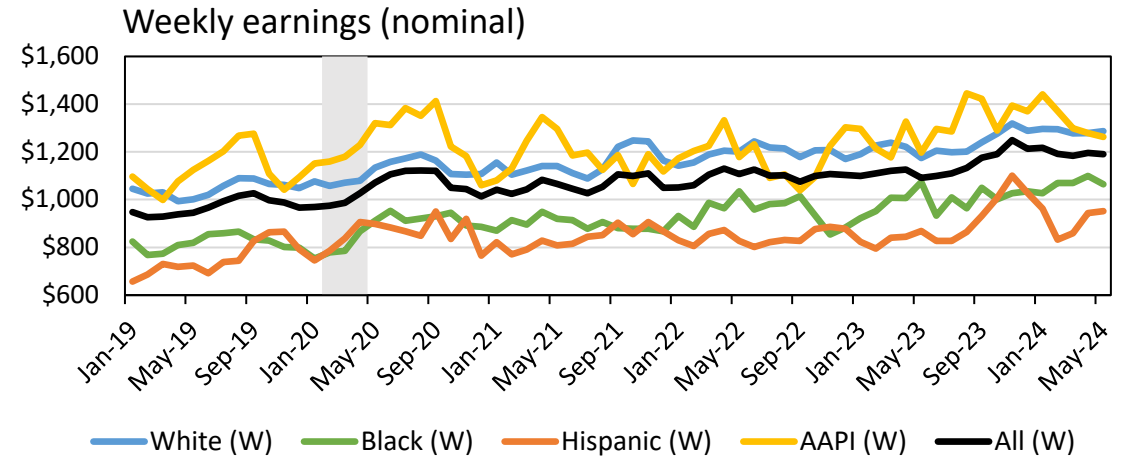
Individual weekly earnings from April 2023 onward are top coded to \$2,884.61, in accordance with pre-April 2023 CPS data conventions for continuity.

Real/Nominal Earnings by Race x Gender (Women)



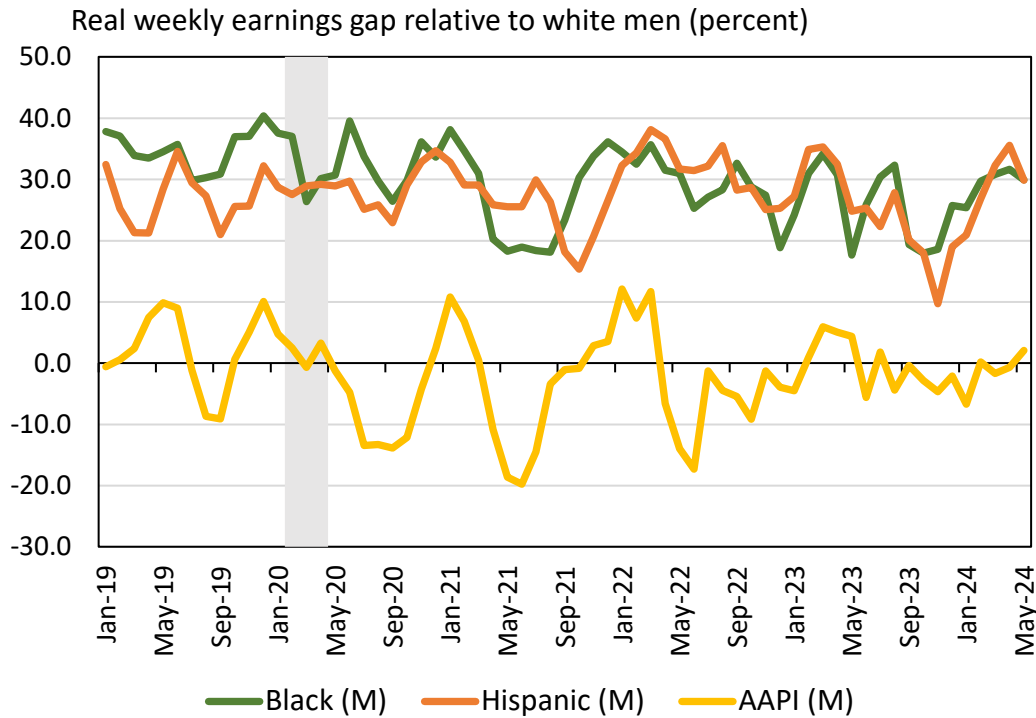
Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Real earnings uses corresponding demographic prices, indexed to June 2019. Shaded region indicates the COVID-19 recession. The earnings gap is defined here as the percent less that a woman of each racial/ethnic group earns on average compared to white men. For instance, a gap of 40% implies that the average Black/Hispanic/AAPI/white woman earns 60% of the average white man. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.



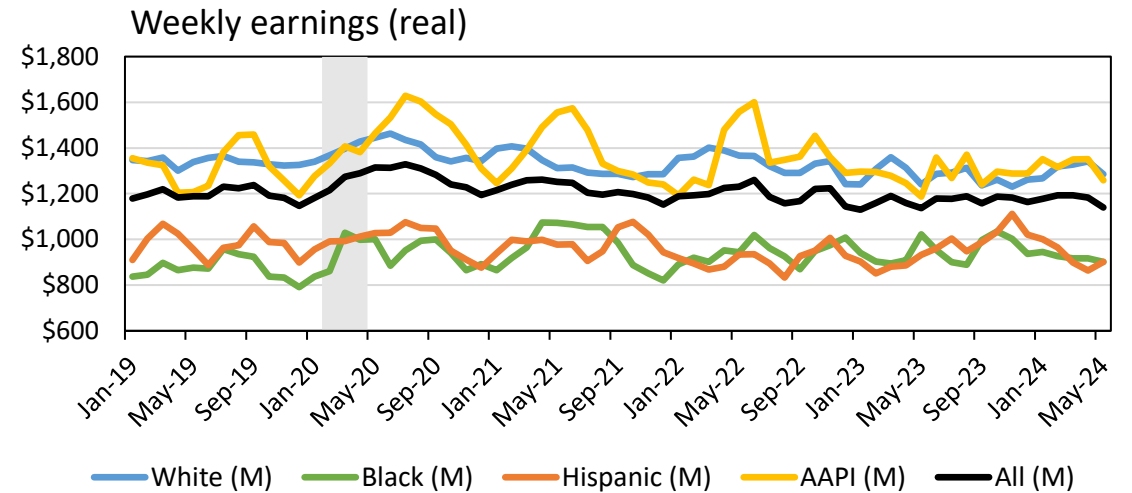
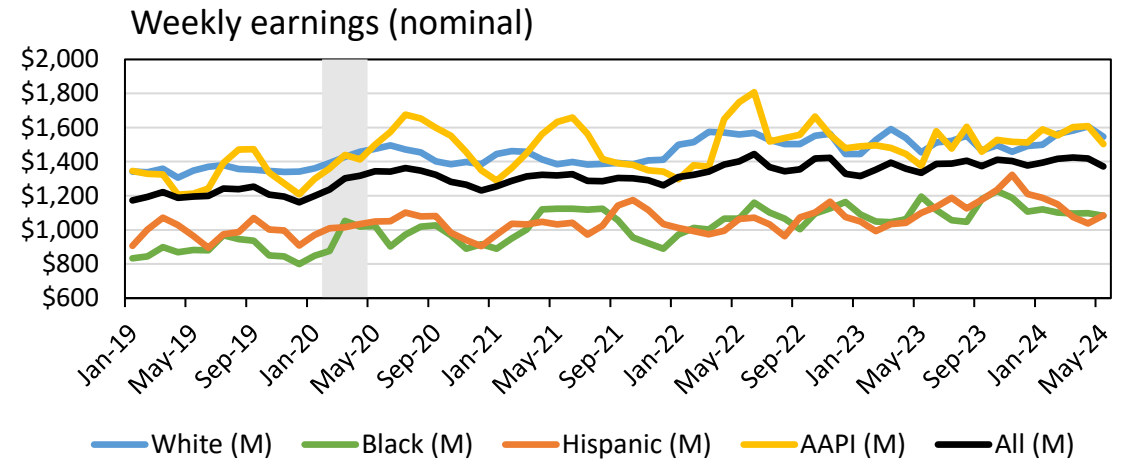
Individual weekly earnings from April 2023 onward are top coded to \$2,884.61, in accordance with pre-April 2023 CPS data conventions for continuity.

Real/Nominal Earnings by Race x Gender (Men)



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata, authors' calculations, three-month moving averages.

Notes: Real earnings uses corresponding demographic prices, indexed to June 2019. Shaded region indicates the COVID-19 recession. The earnings gap is defined here as the percent less that a man of each racial/ethnic group earns on average compared to white men. For instance, a gap of 20% implies that the average Black/Hispanic/AAPI man earns 80% of the average white man. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.



Individual weekly earnings from April 2023 onward are top coded to \$2,884.61, in accordance with pre-April 2023 CPS data conventions for continuity.



**EMPLOYMENT:
EMPLOYMENT-TO-
POPULATION RATIO**

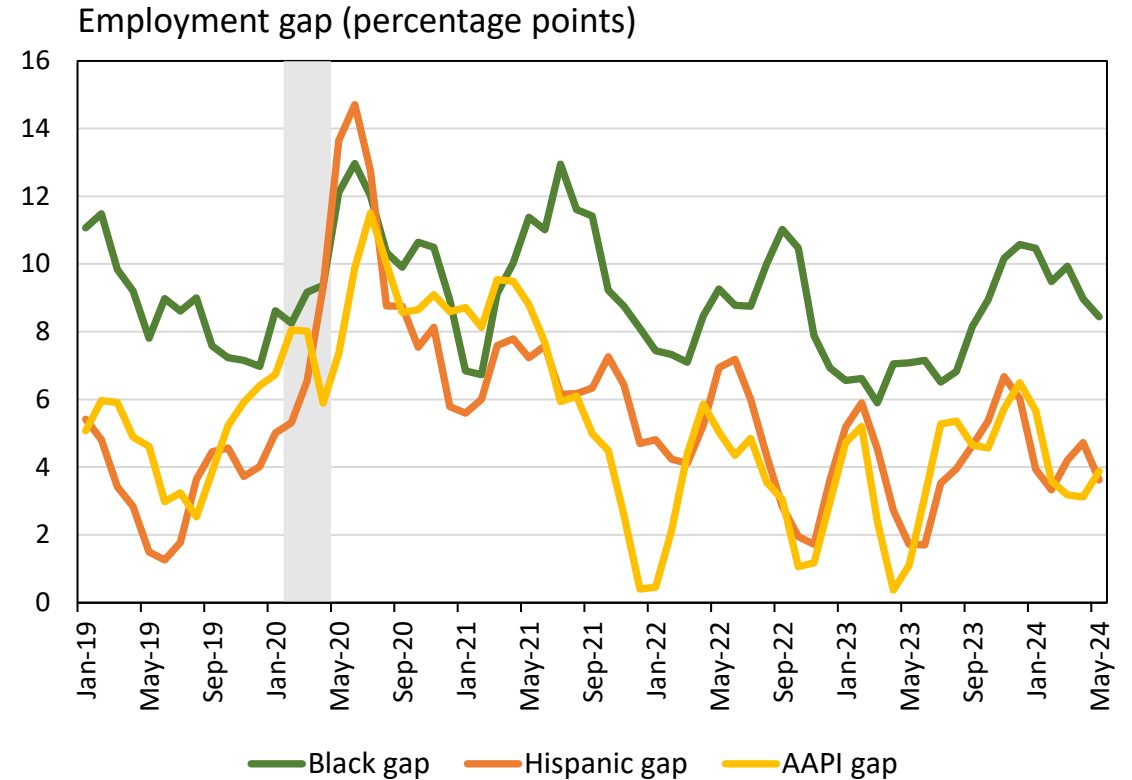
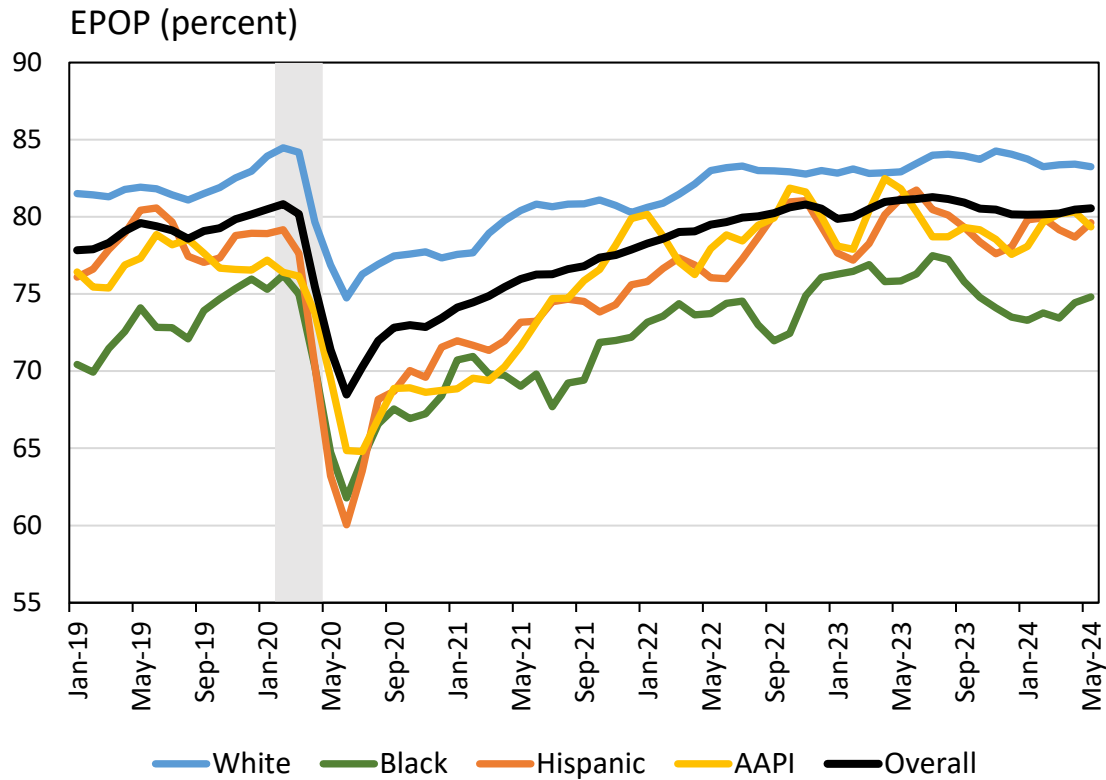
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Takeaways | EPOP

- The employment-to-population ratio (EPOP) in the region is following many of the trends observed in the nation. In particular, EPOP has recovered to its pre-pandemic levels (compared with May 2019) but is lower than during mid-2023.
- As in the nation, employment gaps are largest for Black workers, followed by Hispanic and AAPI workers. These all rose in the pandemic and have since declined to roughly pre-pandemic levels. In particular, the Black-white employment gap has been declining since March 2024 and stands at 8.44 percentage points in May 2024. Nevertheless it is much larger in magnitude than the nationwide Black-white employment gap.
- The college and gender employment gaps have also been declining steadily, as in the national data.
- The rural employment gap declined rapidly in 2024:Q2 and has essentially closed in May 2024.
- We define the region in the CPS for all labor market charts to be the union of the New York-New Jersey metro area (excluding counties in Pennsylvania) with all other counties in New York state.

EPOP by Race/Ethnicity

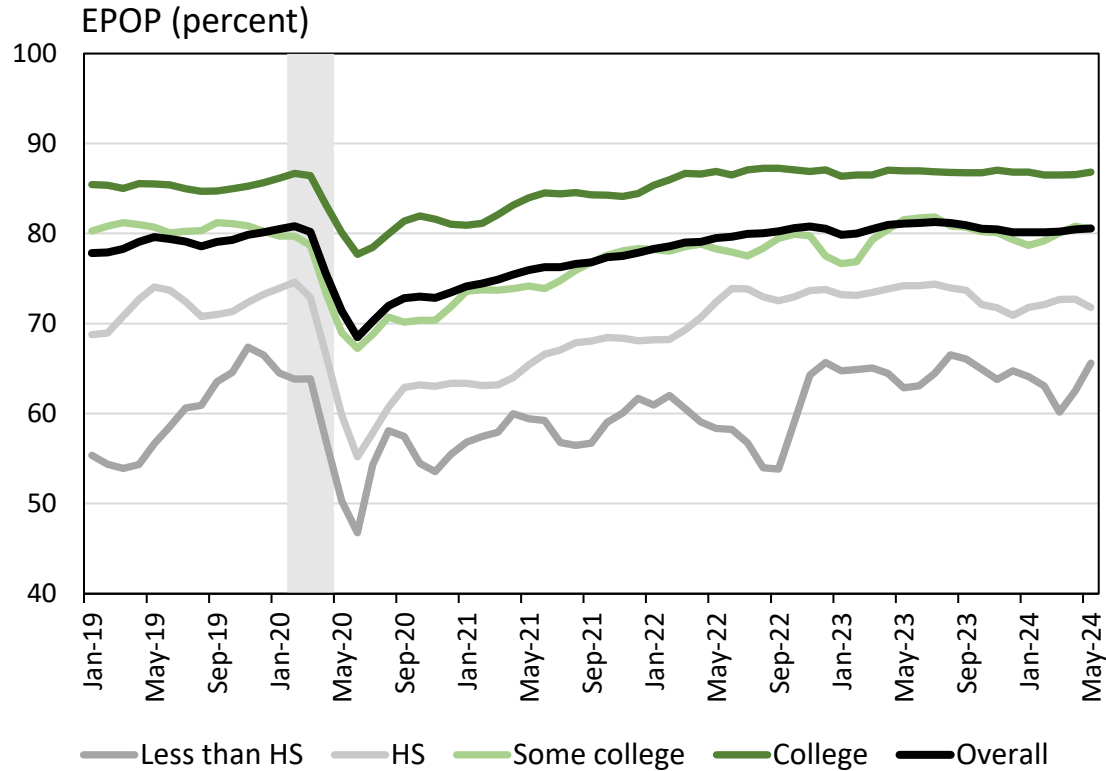


Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

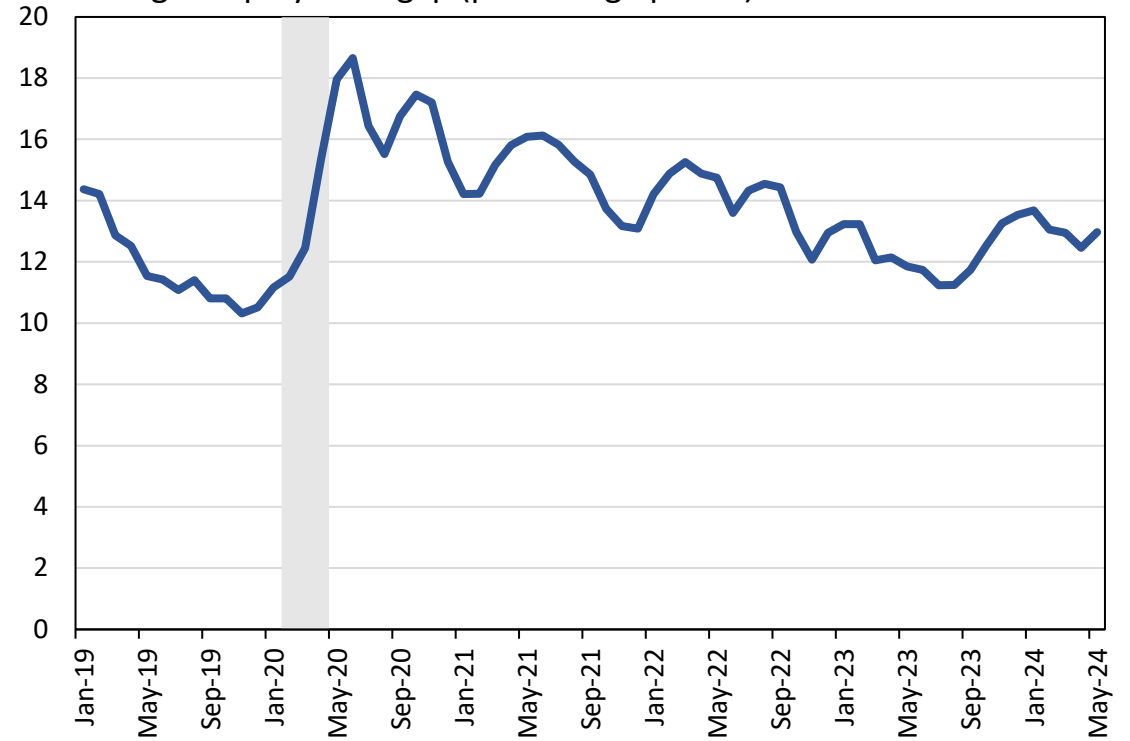
Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Employment gap defined relative to white employment.

EPOP by Education



College employment gap (percentage points)

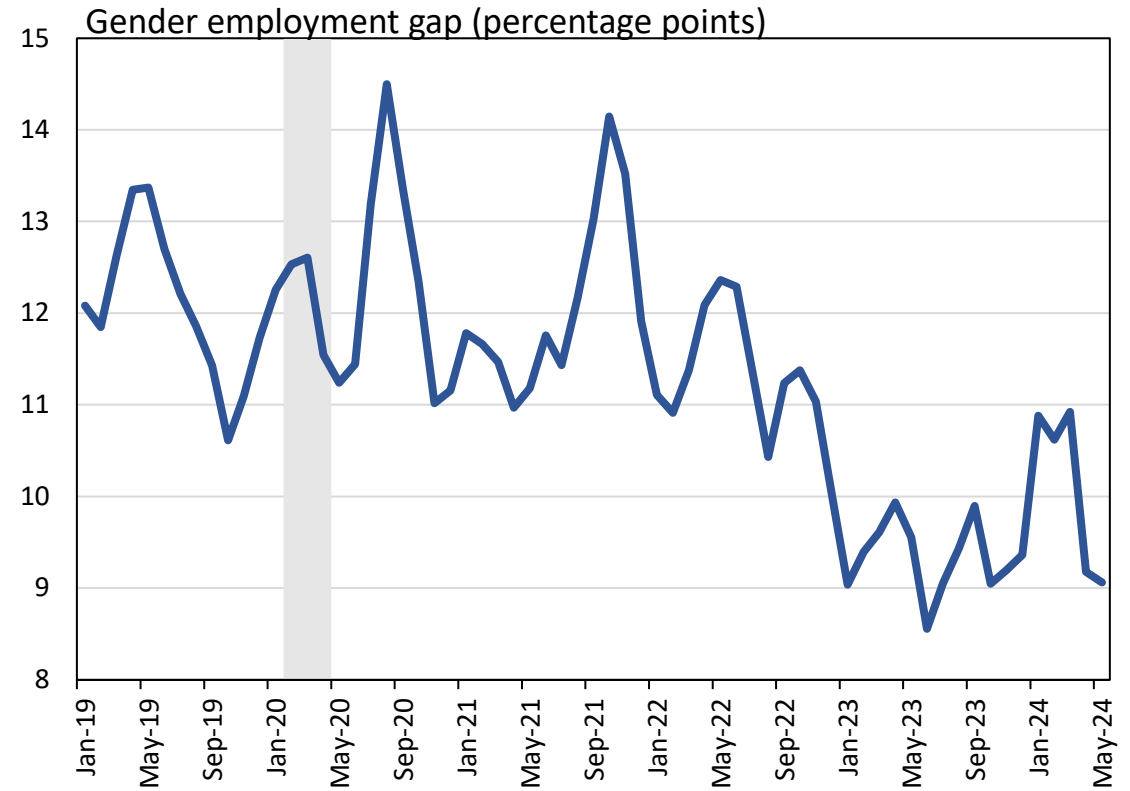
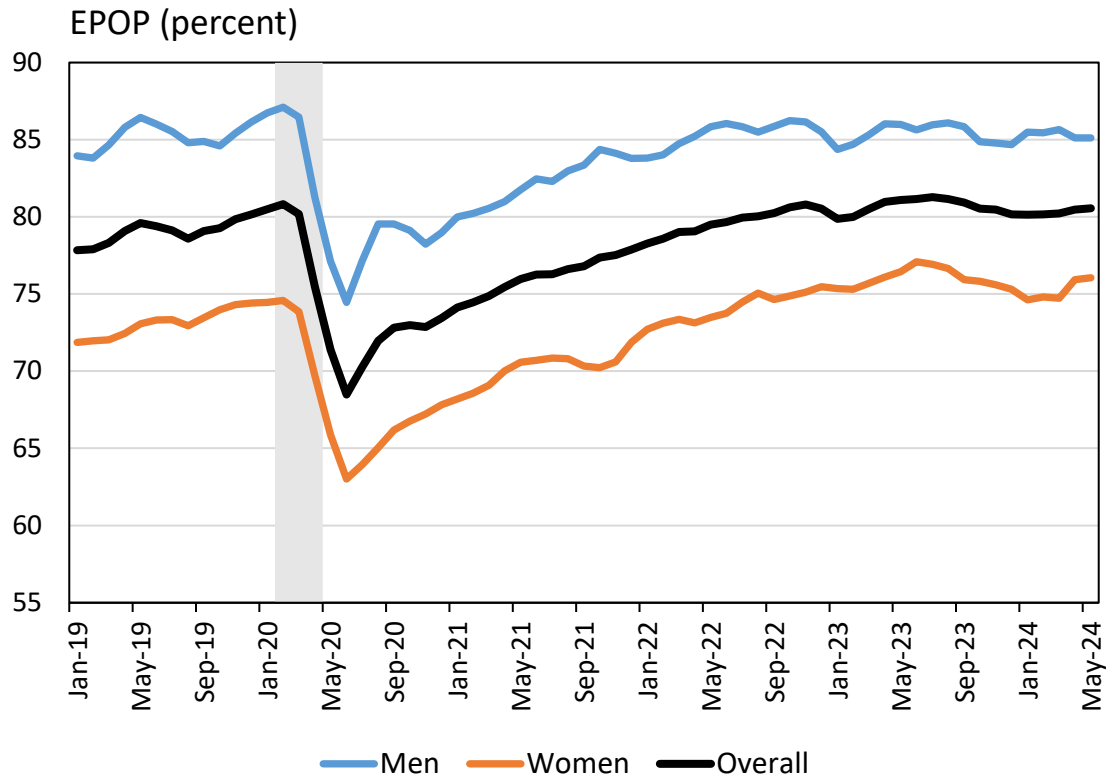


Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

College employment gap defined as employment of college graduates relative to non-graduates.

EPOP by Gender

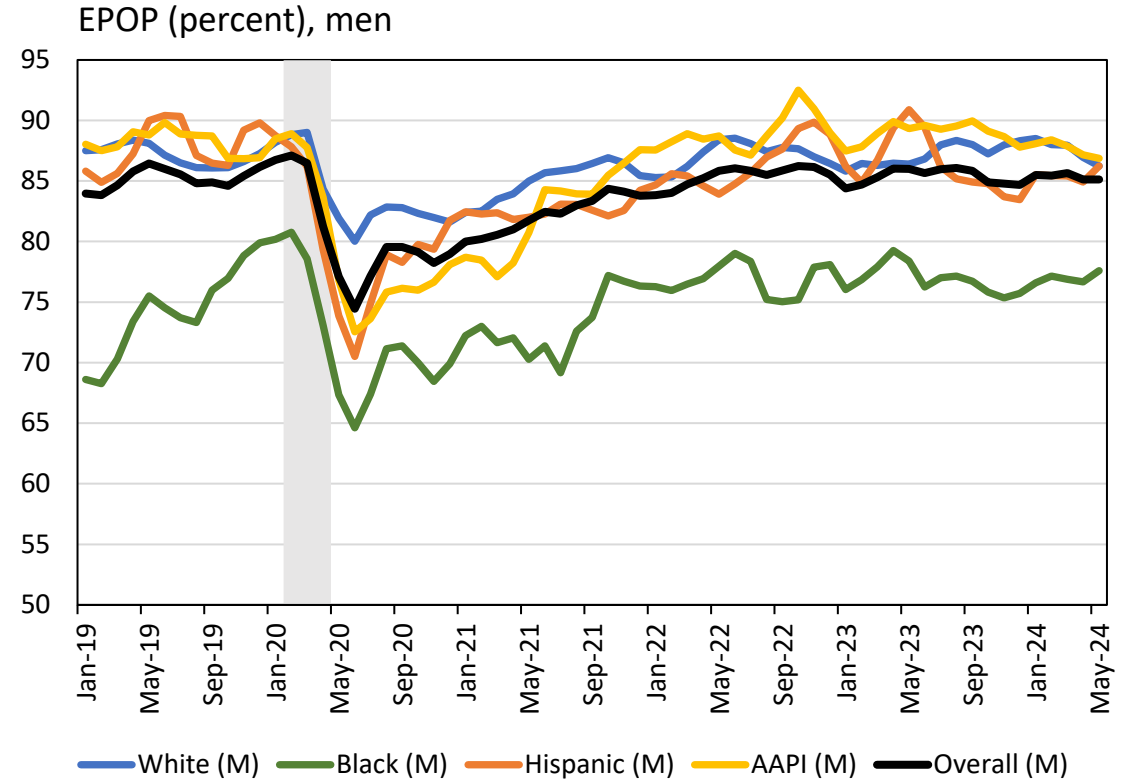
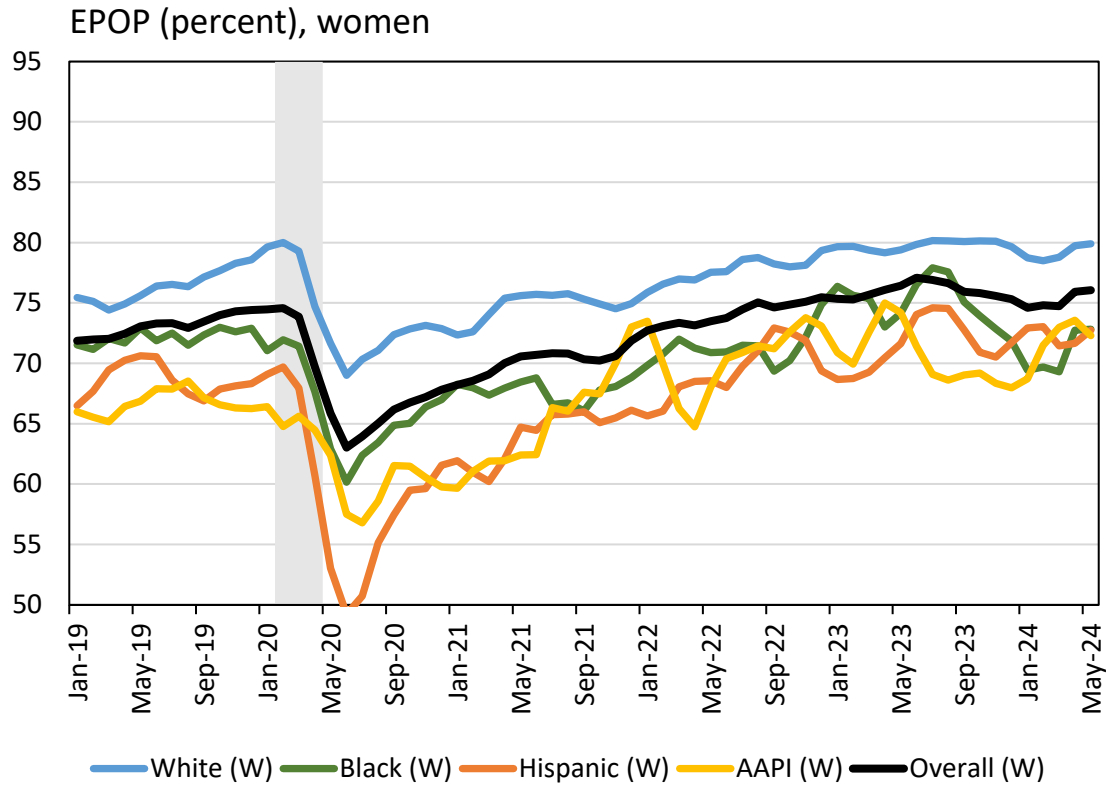


Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Gender employment gap defined as employment of men relative to women.

EPOP by Race x Gender

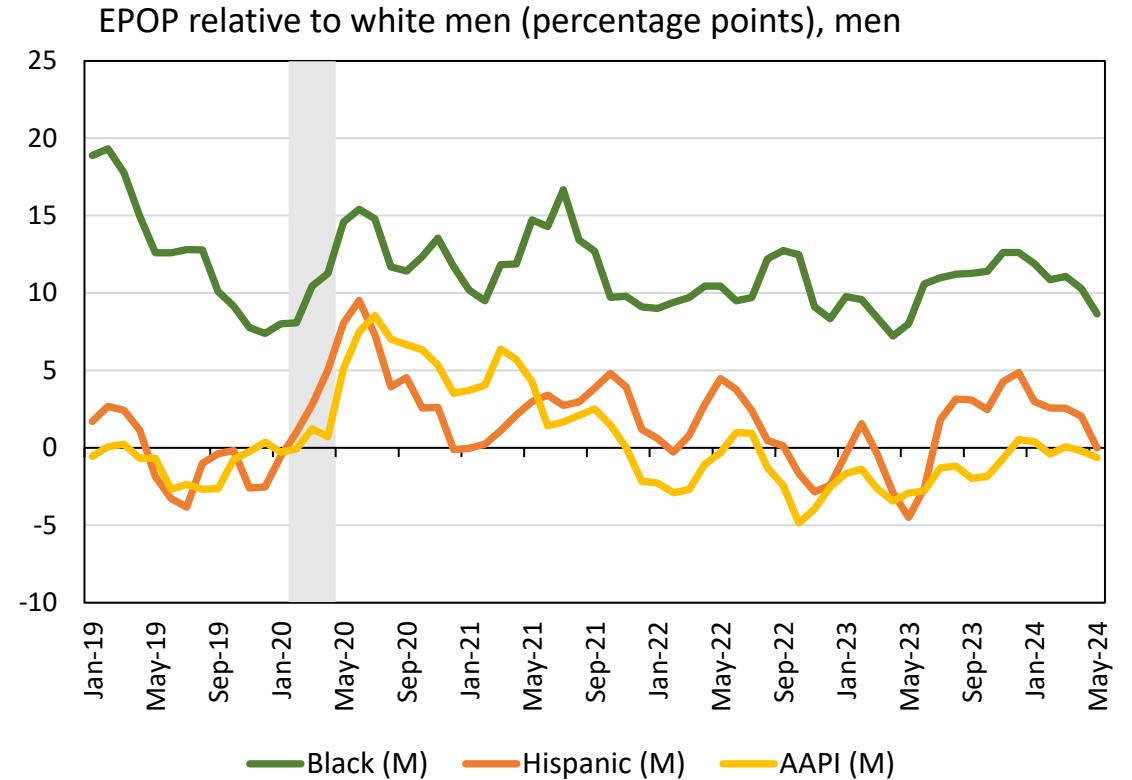
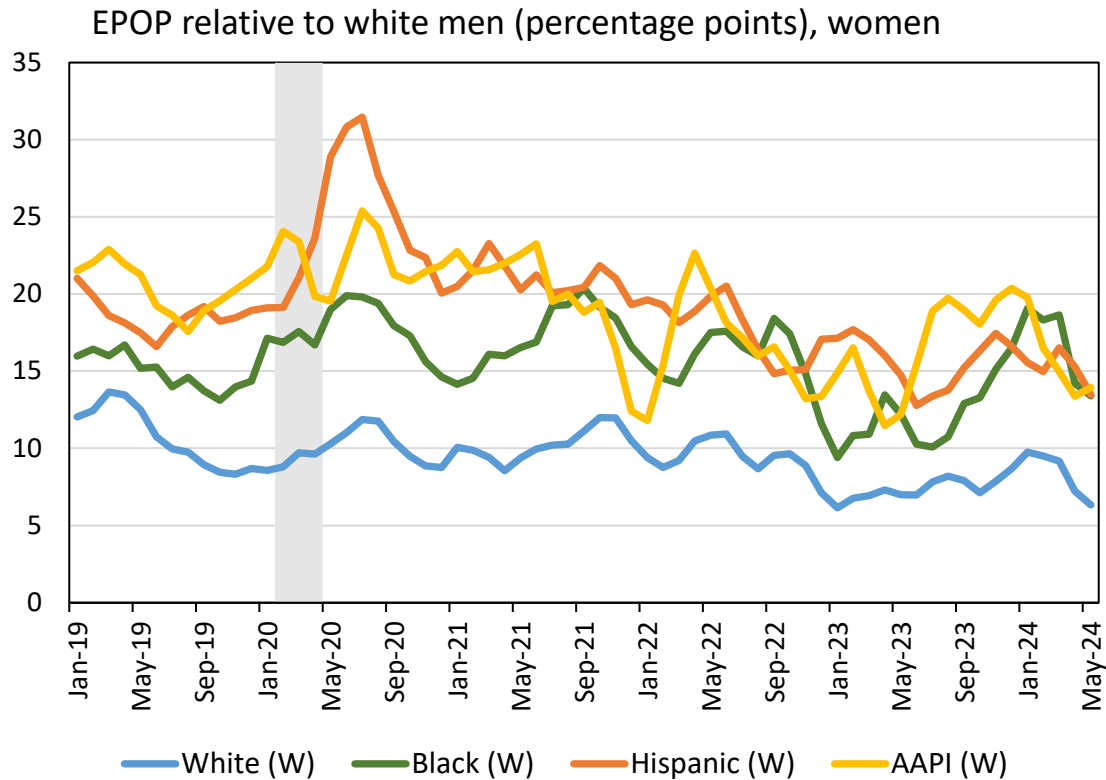


Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Gender employment gap defined as employment of men relative to women.

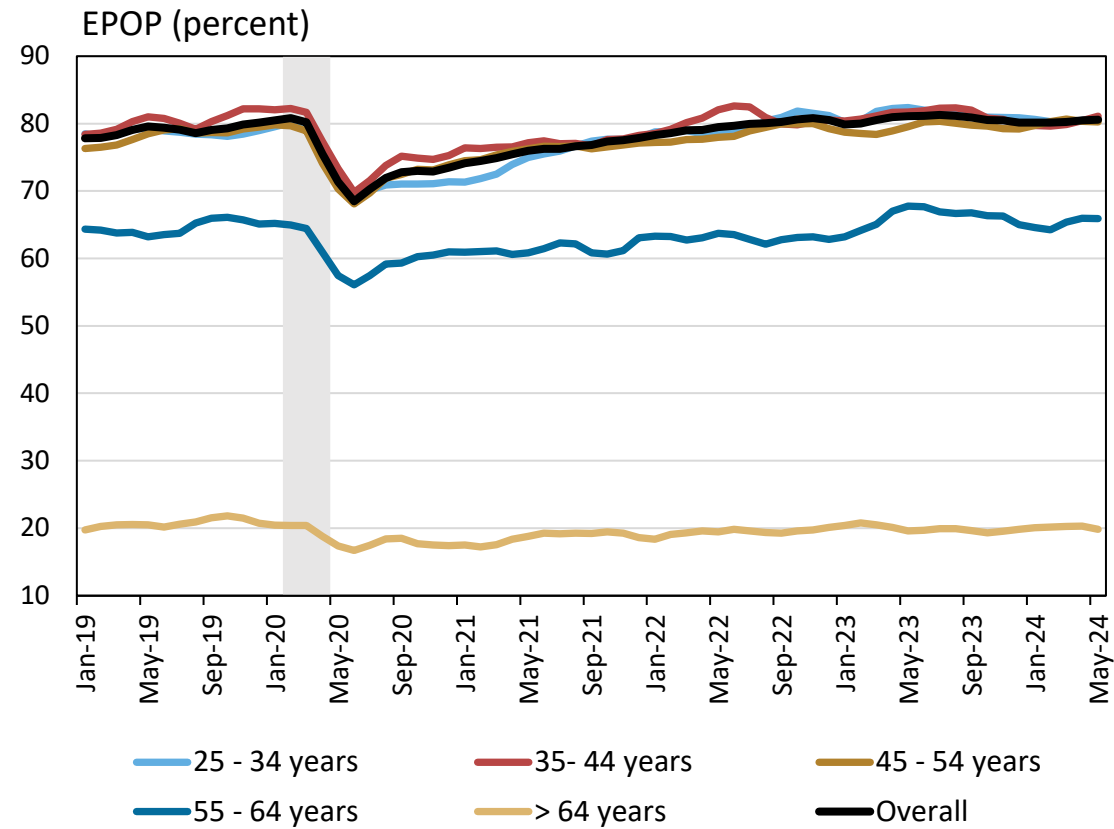
EPOP Gaps by Race x Gender



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

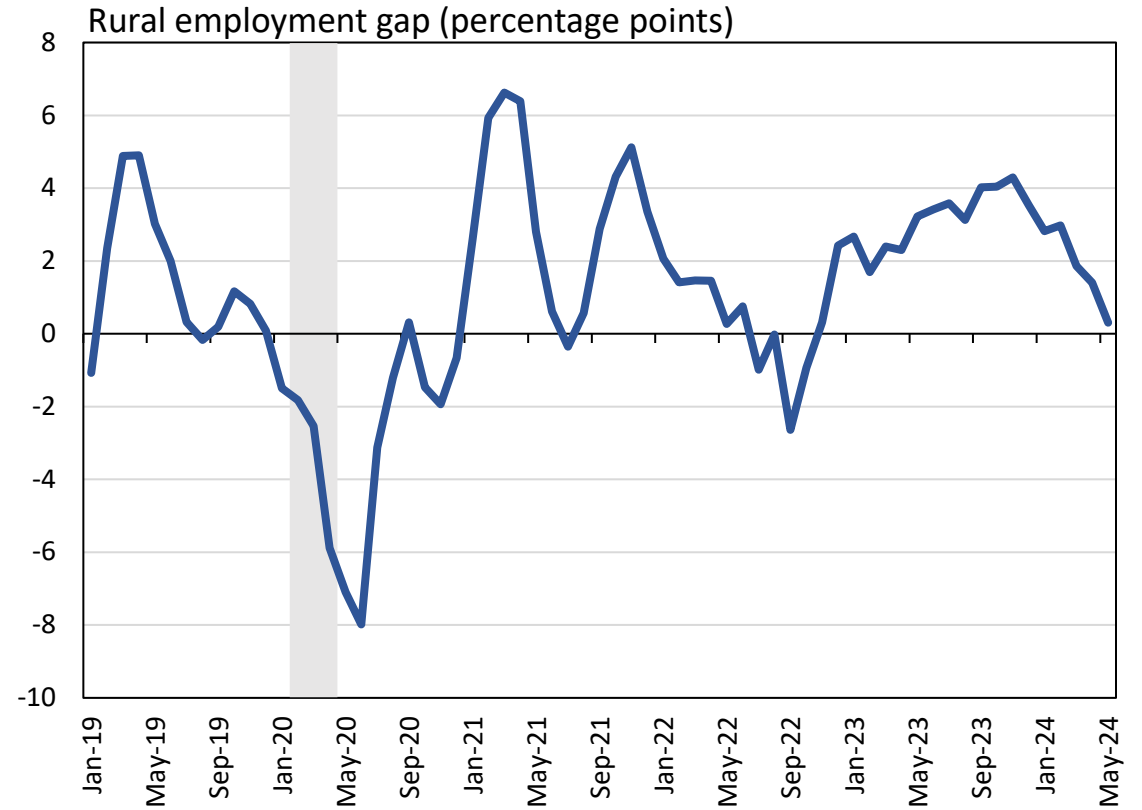
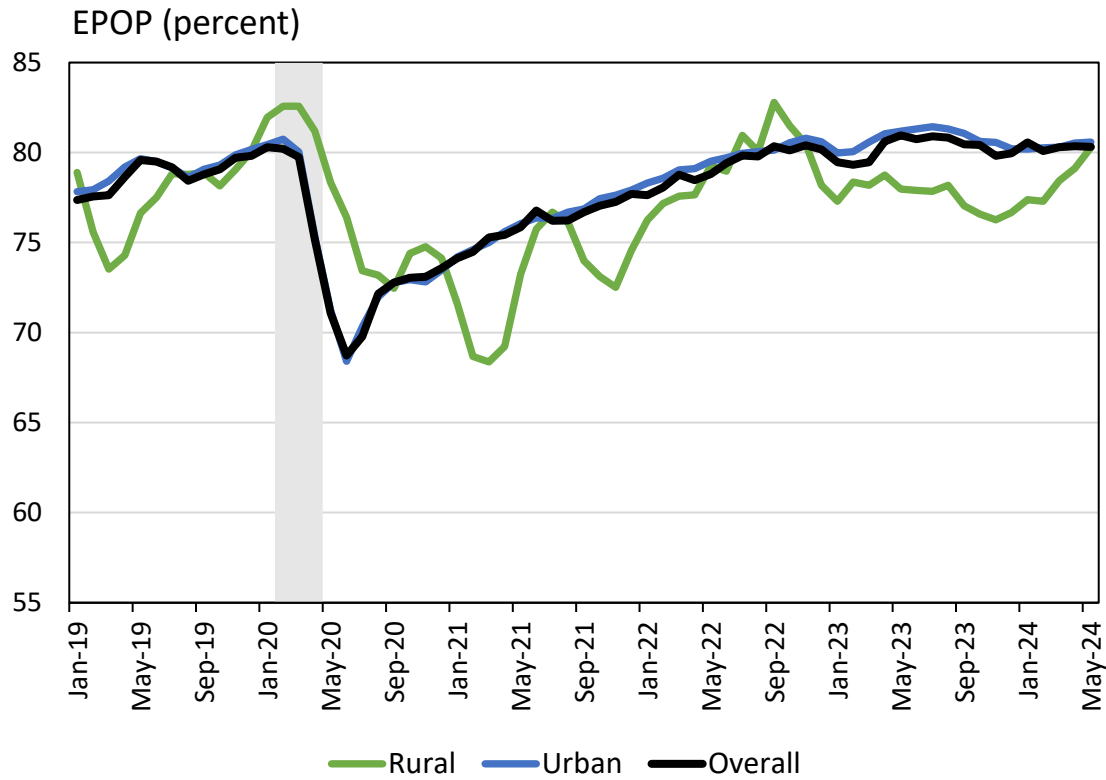
EPOP by Age



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Overall line uses prime-age (25-54) sample. Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

EPOP by Urban Status



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Rural employment gap defined as employment of urban workers relative to rural workers.



EMPLOYMENT: UNEMPLOYMENT RATE

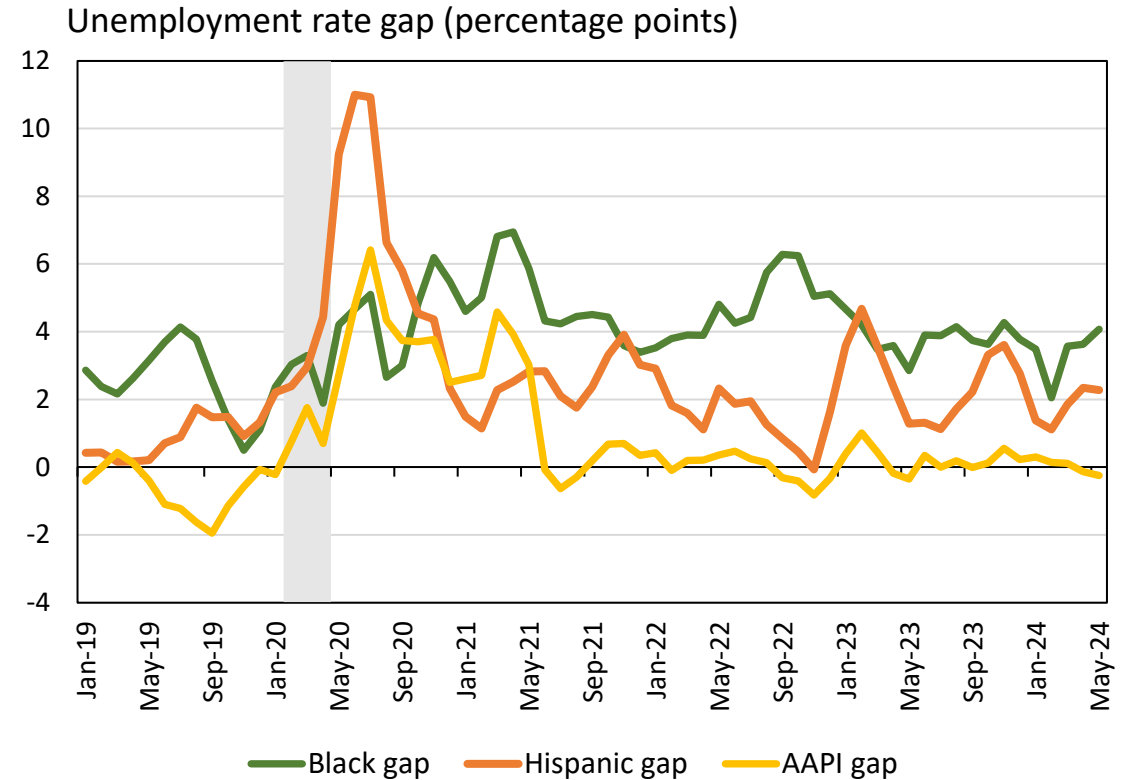
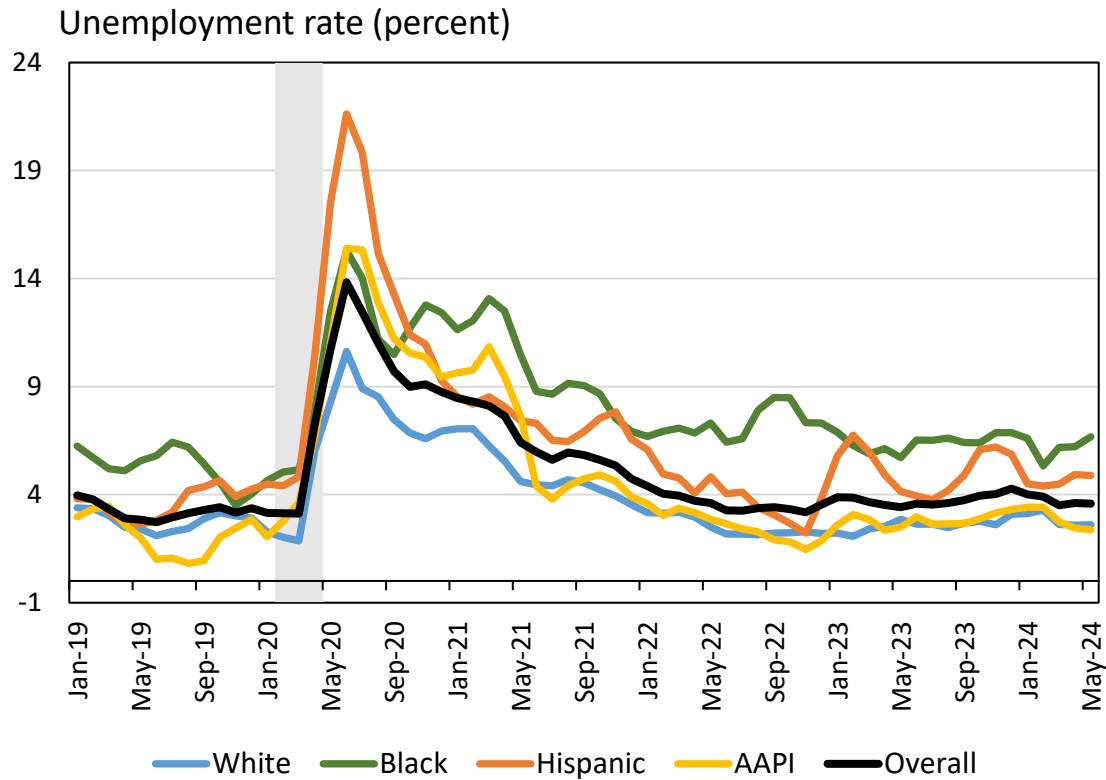
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Takeaways | Unemployment Rate

- We define unemployment rate as the fraction of unemployed in the labor force. The overall unemployment rate in the region peaked at more than 14% during the pandemic, which was higher than the national peak at 11%. Both have returned to pre-pandemic levels.
- In both the region and the nation, unemployment rate gaps increased during the pandemic, but are now close to pre-pandemic levels.
- Unemployment rates in the region in May 2024 are highest for Black workers (6.68%) followed by workers without a high school diploma (6.46%).
- The college unemployment gap peaked at 11 percentage points during the pandemic in the region (compared to 7 percentage points in the nation) but has returned to a similar level to the nationwide gap (about 2 percentage points).

Unemployment Rate by Race/Ethnicity



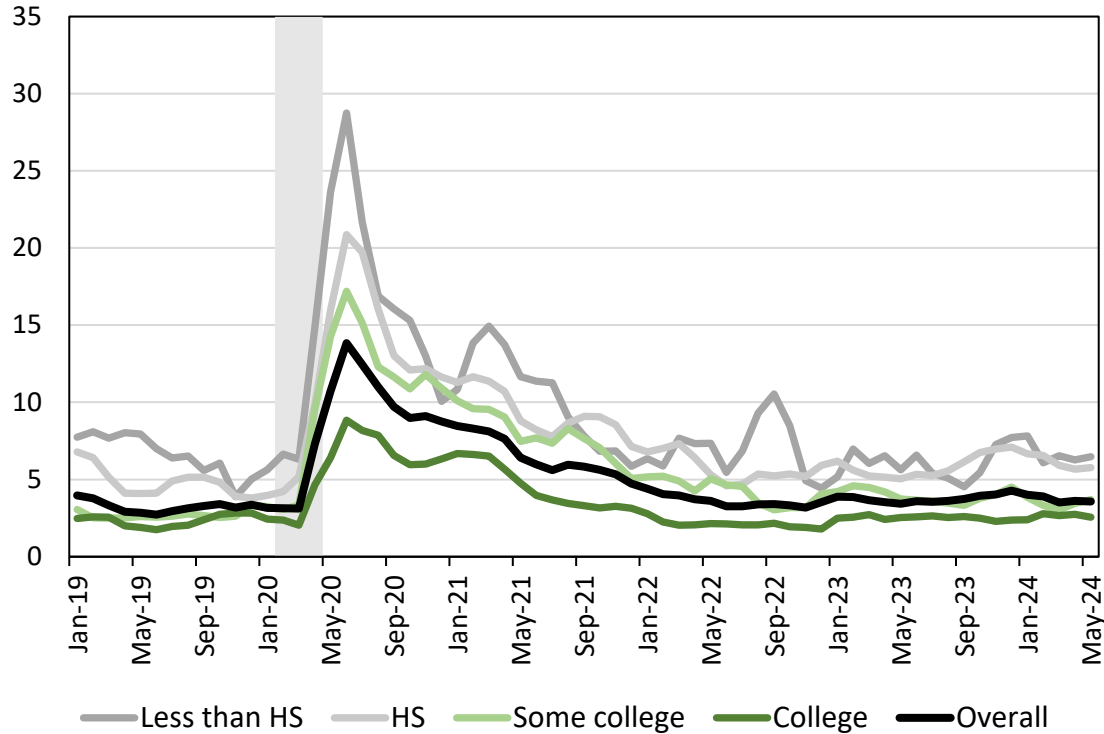
Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

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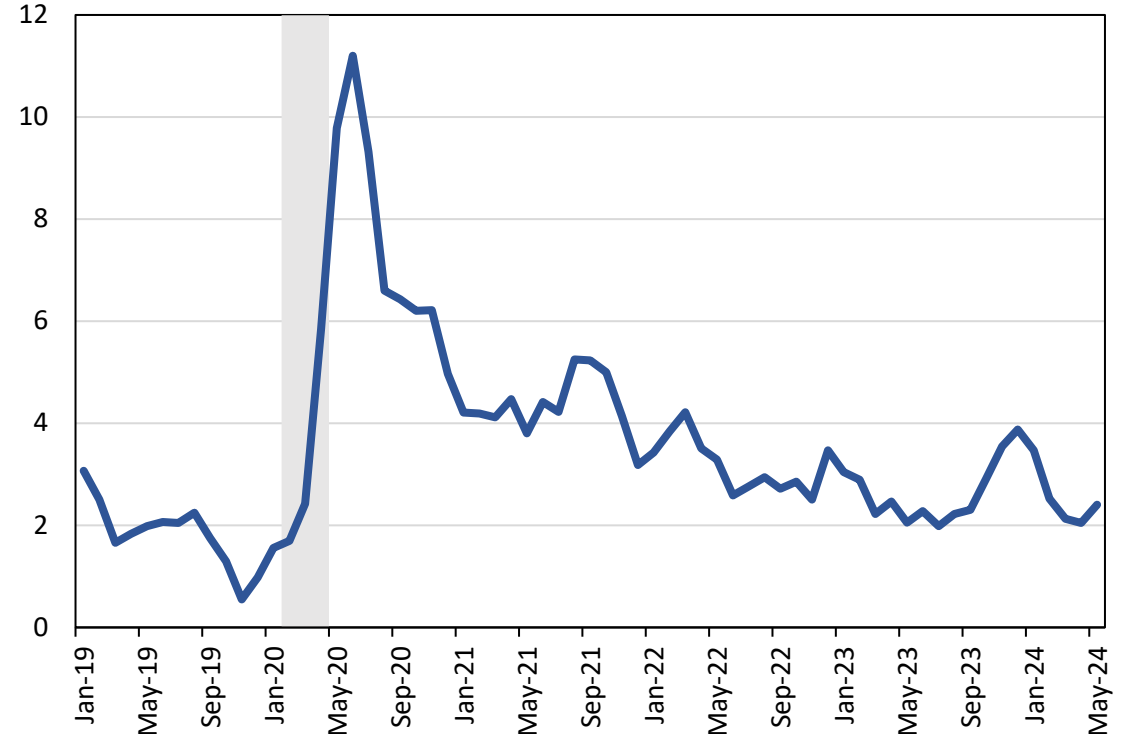
Unemployment gap defined relative to white unemployment.

Unemployment Rate by Education

Unemployment rate (percent)



College unemployment rate gap (percentage points)

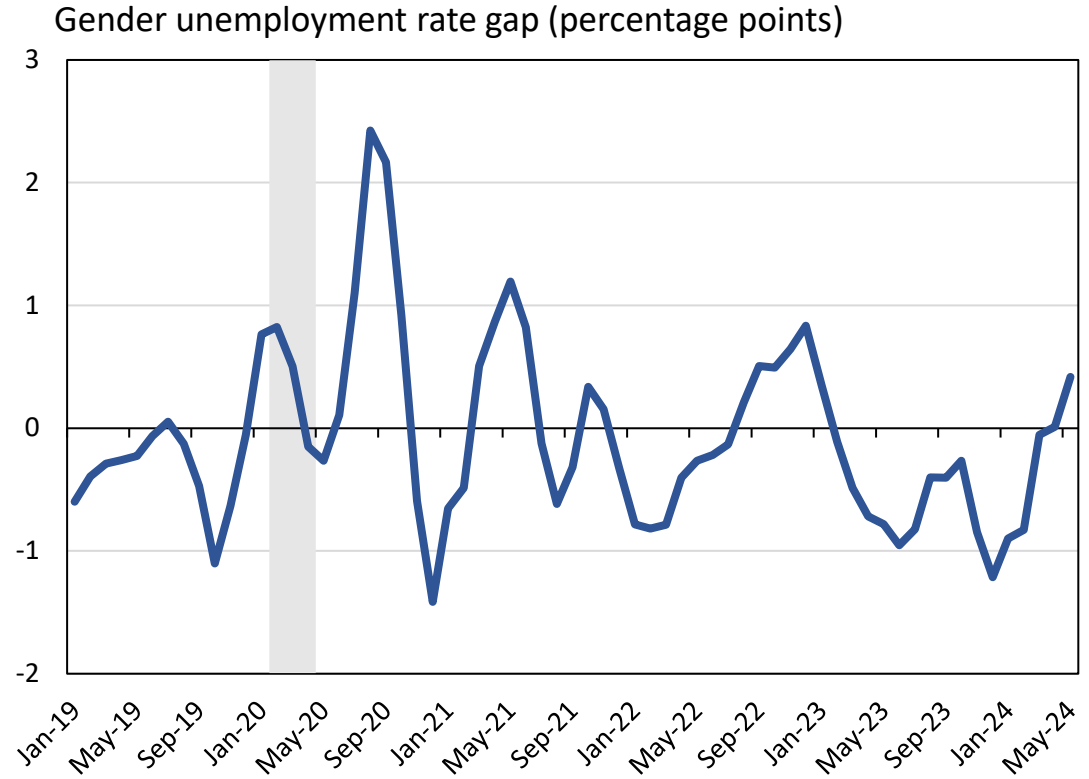
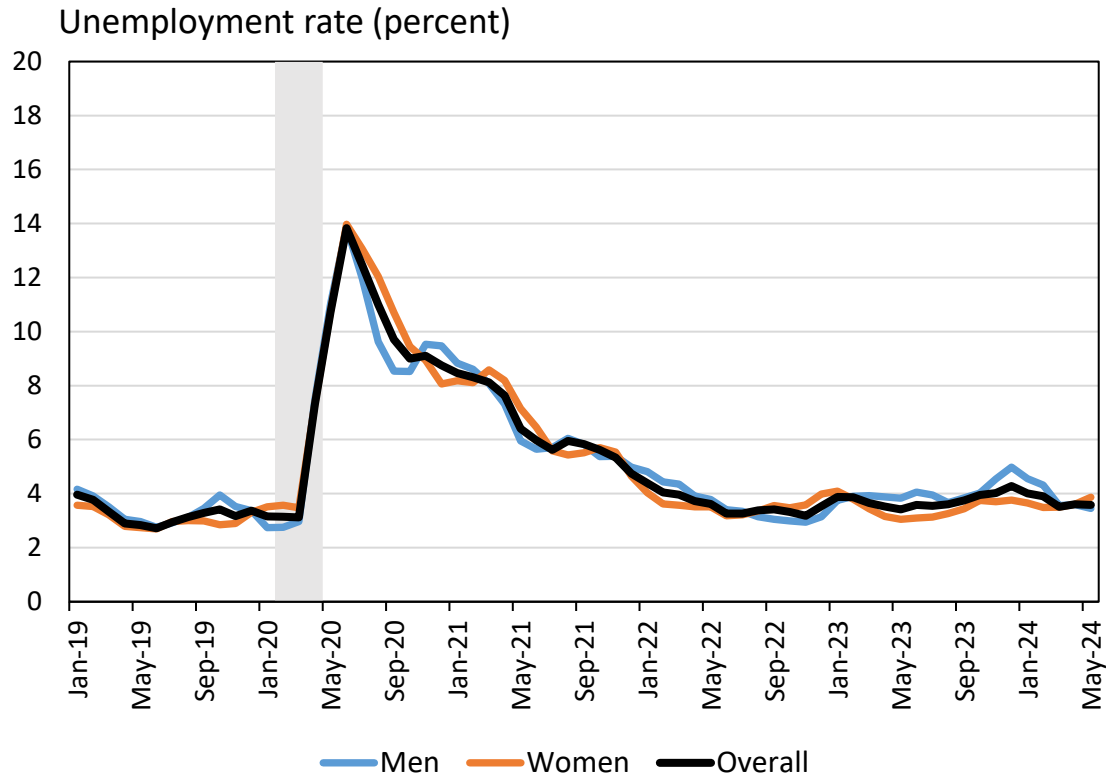


Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

College unemployment gap defined as unemployment of non-college graduates relative to graduates.

Unemployment Rate by Gender



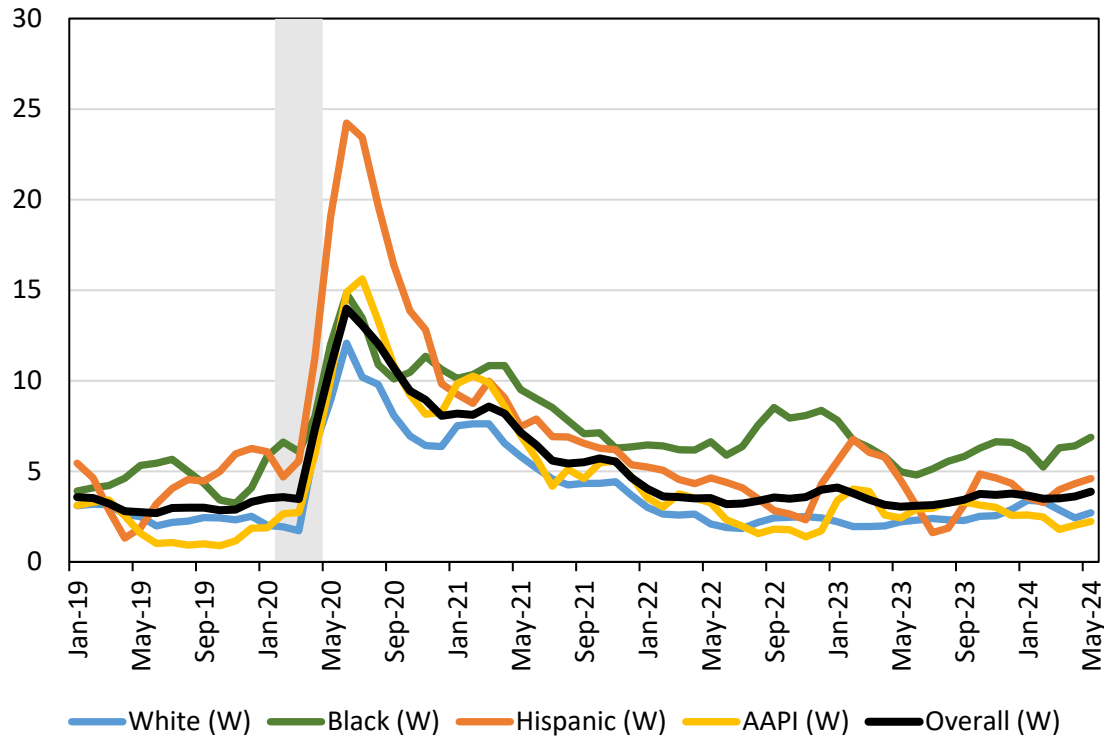
Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

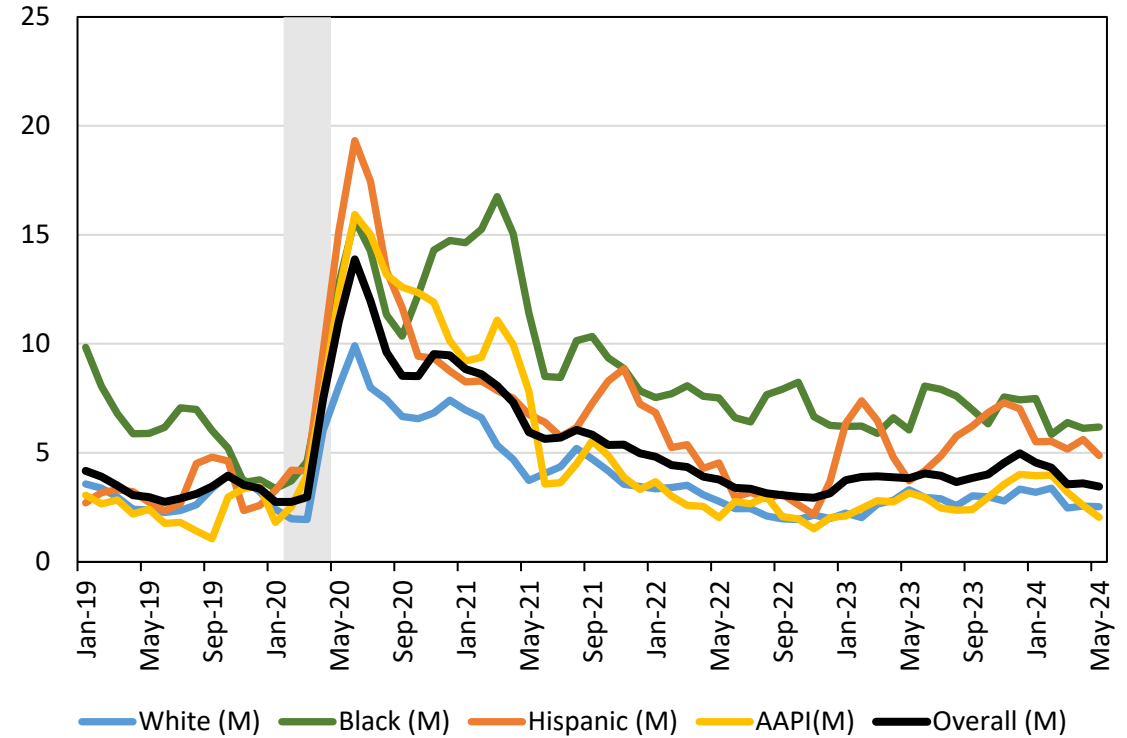
Gender employment gap defined as unemployment of women relative to men.

Unemployment Rate by Race x Gender

Unemployment rate (percent), women



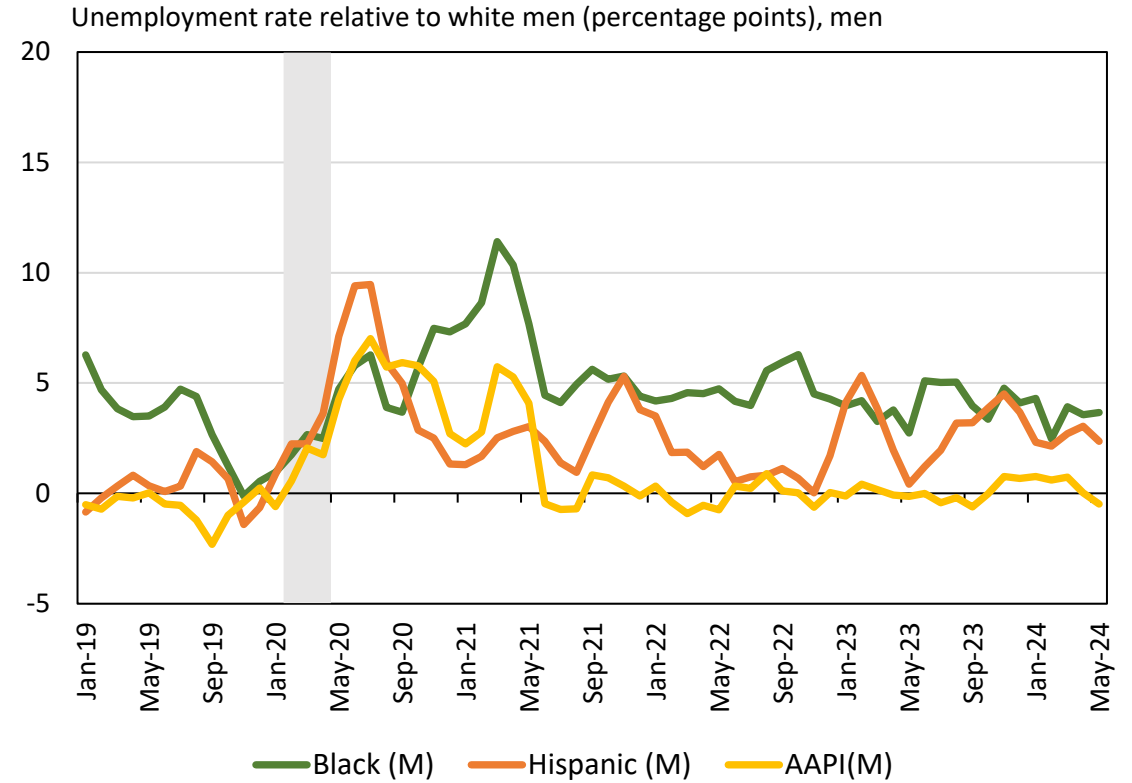
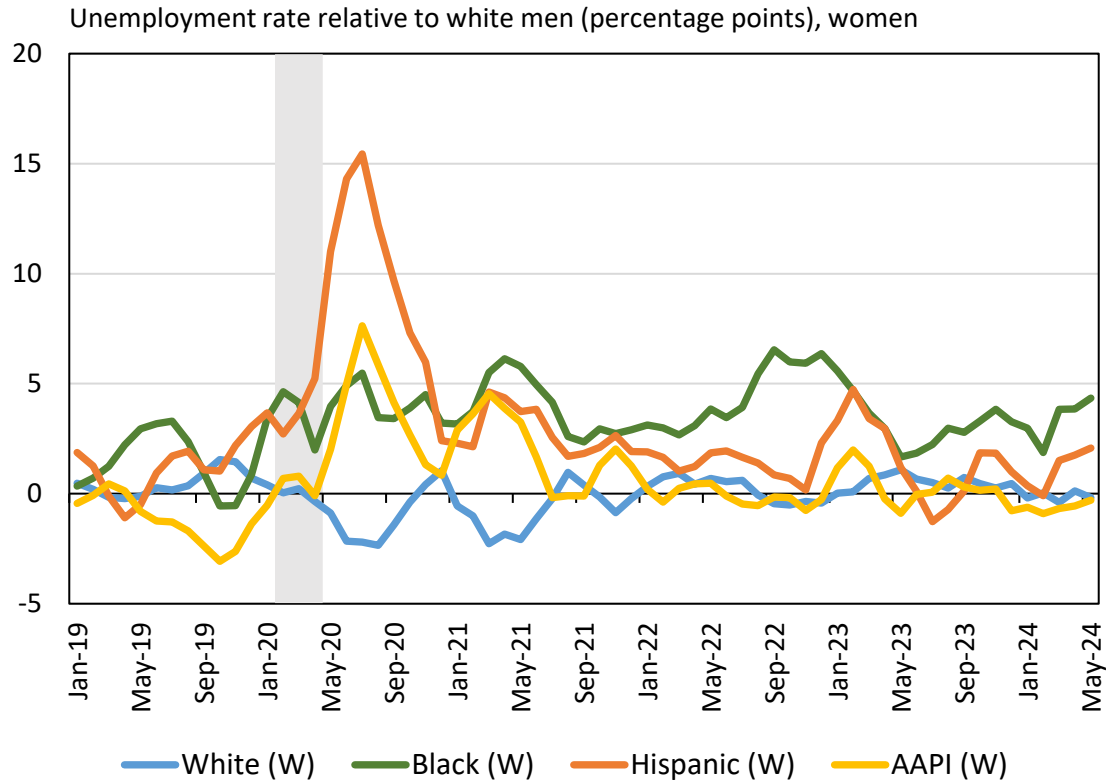
Unemployment rate (percent), men



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

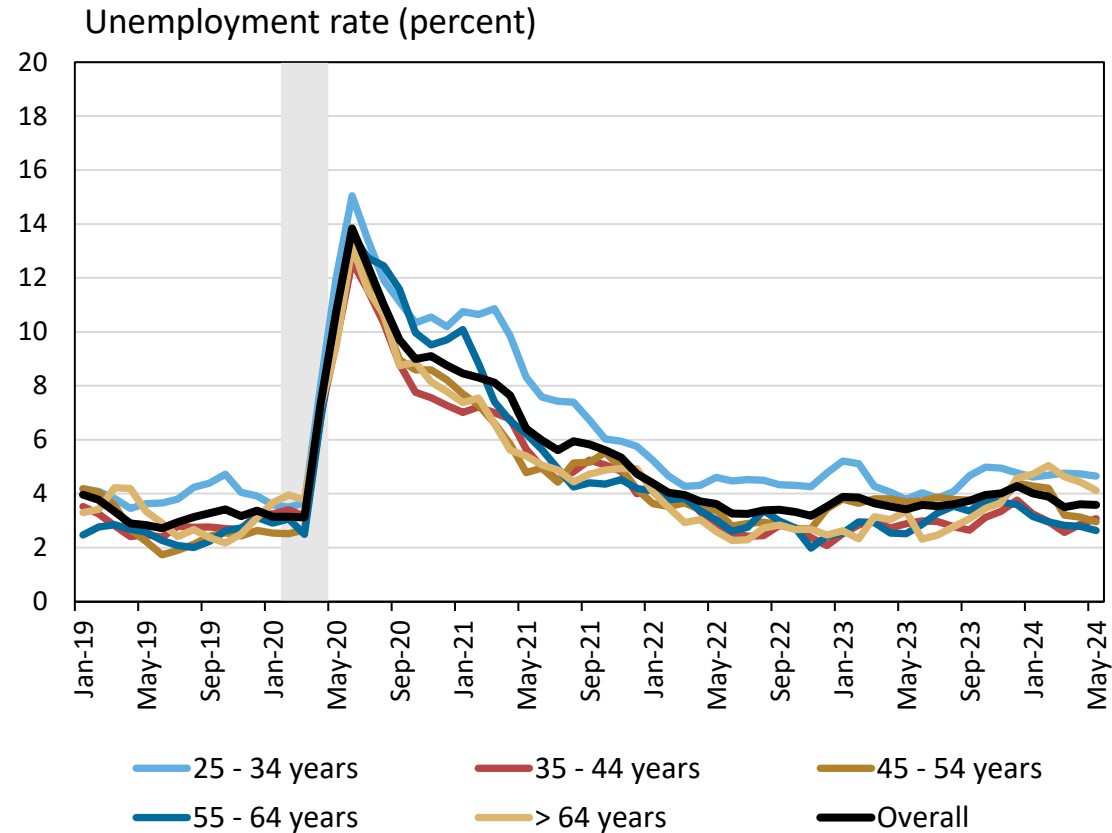
Unemployment Rate Gaps by Race x Gender



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

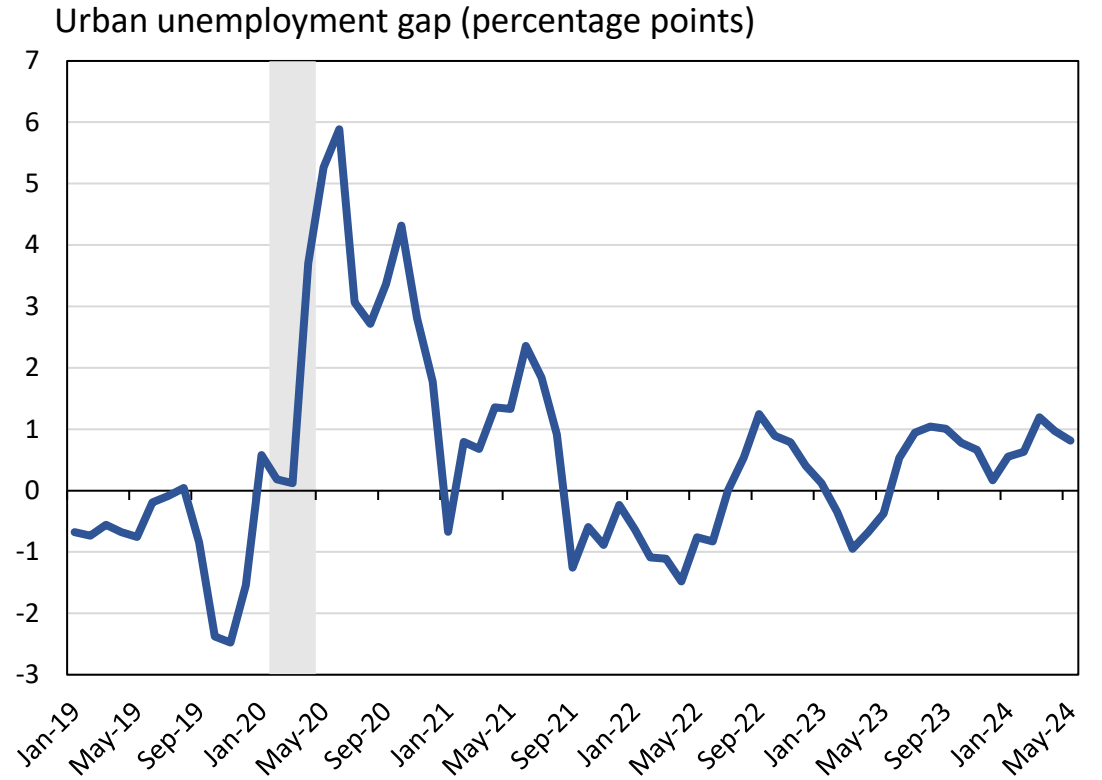
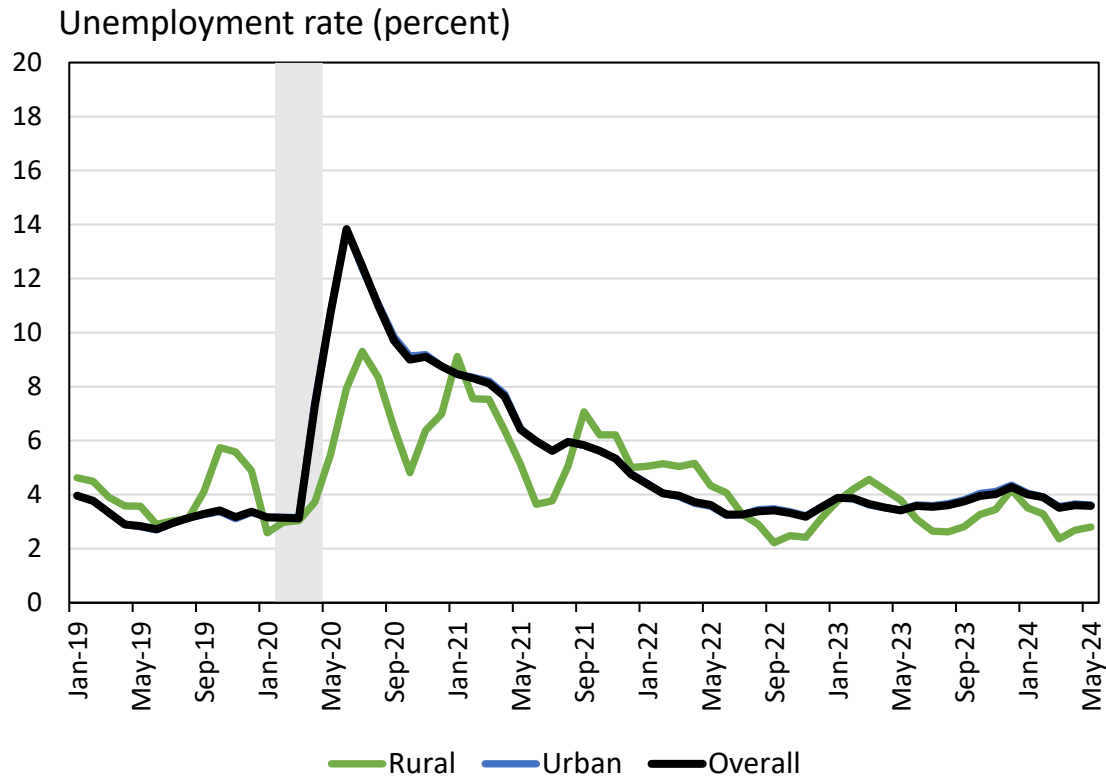
Unemployment Rate Gaps by Age



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Overall line uses prime-age (25-54) sample. Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Unemployment Rate by Urban Status



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

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Urban unemployment gap defined as unemployment of urban workers relative to rural workers.



EMPLOYMENT: LABOR FORCE PARTICIPATION

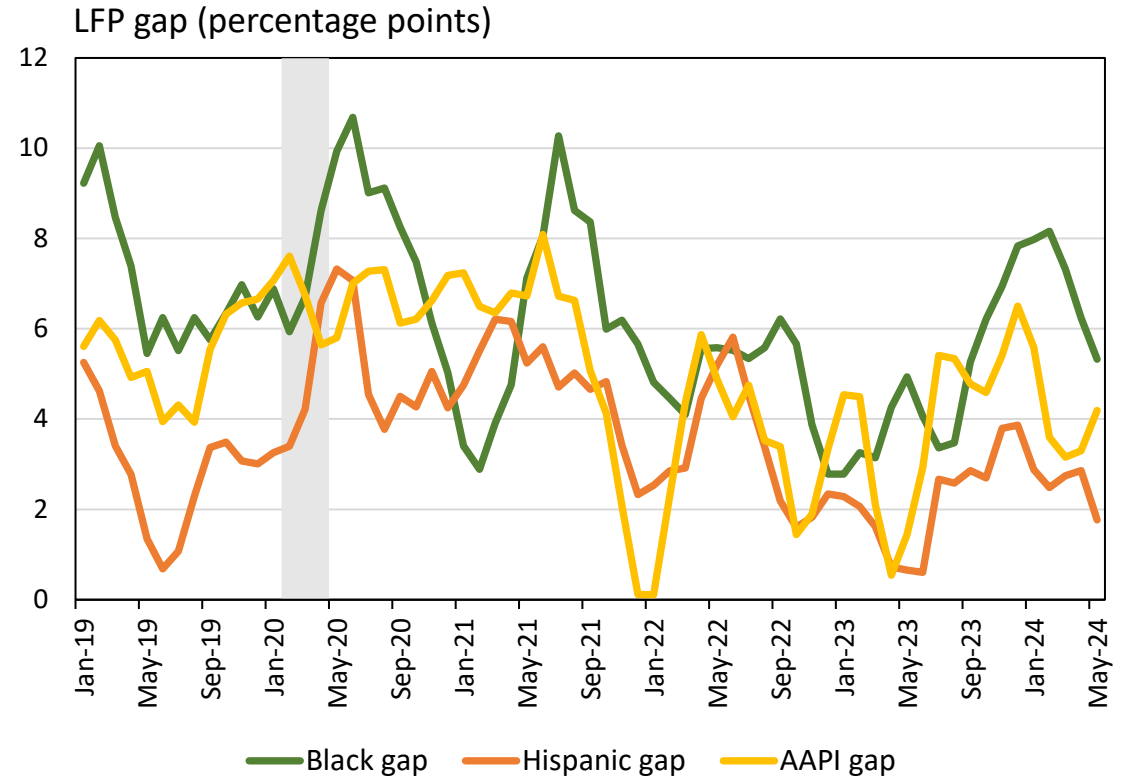
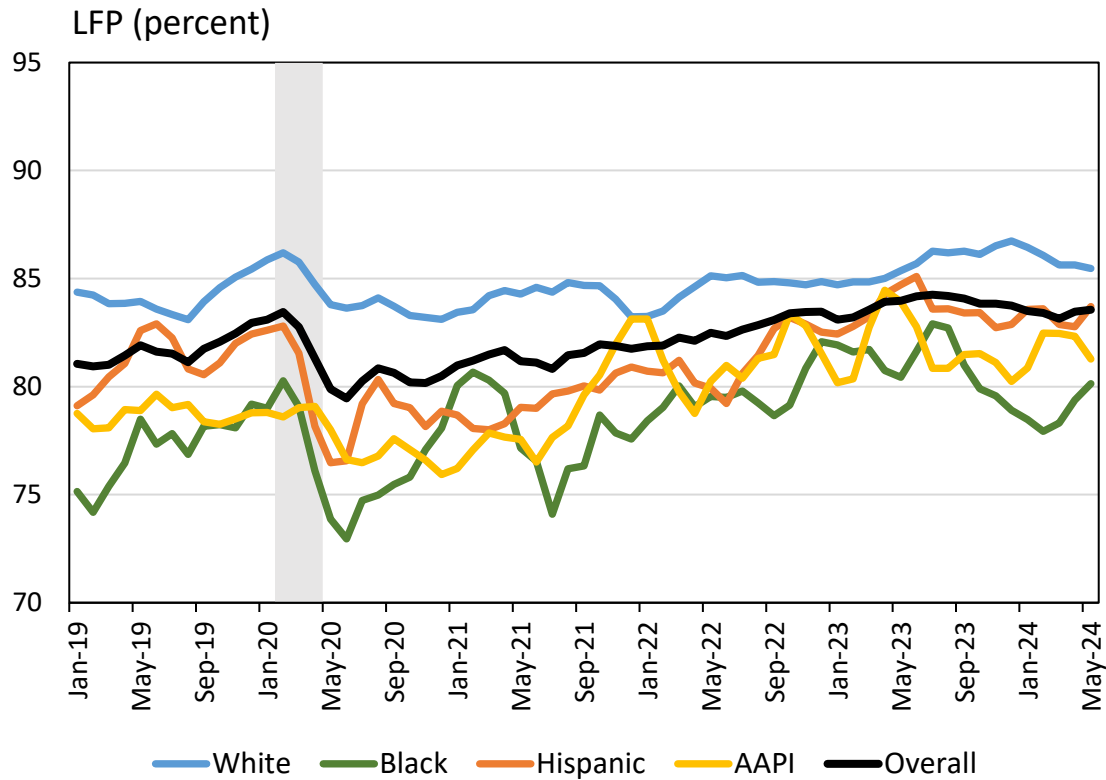
UPDATED THROUGH MAY 2024 | REGIONAL

Raji Chakrabarti, Kasey Chatterji-Len, and Maxim Pinkovskiy

Takeaways | Labor Force Participation

- The dynamics and heterogeneity in labor force participation (LFP) in the region mirror those of EPOP.
- LFP rates in the region are now close to or above their pre-pandemic levels (compared with May 2019, both on average and for men, women, and all racial and ethnic groups).
- Black, Hispanic, and Asian workers have LFPs below the region average, although the Hispanic LFP is close.
- The college LFP gap in the region has not fallen below pre-pandemic levels. However, the gender LFP gap in the region continues to decline, reaching 9.04% in May 2024.

Labor Force Participation by Race/Ethnicity

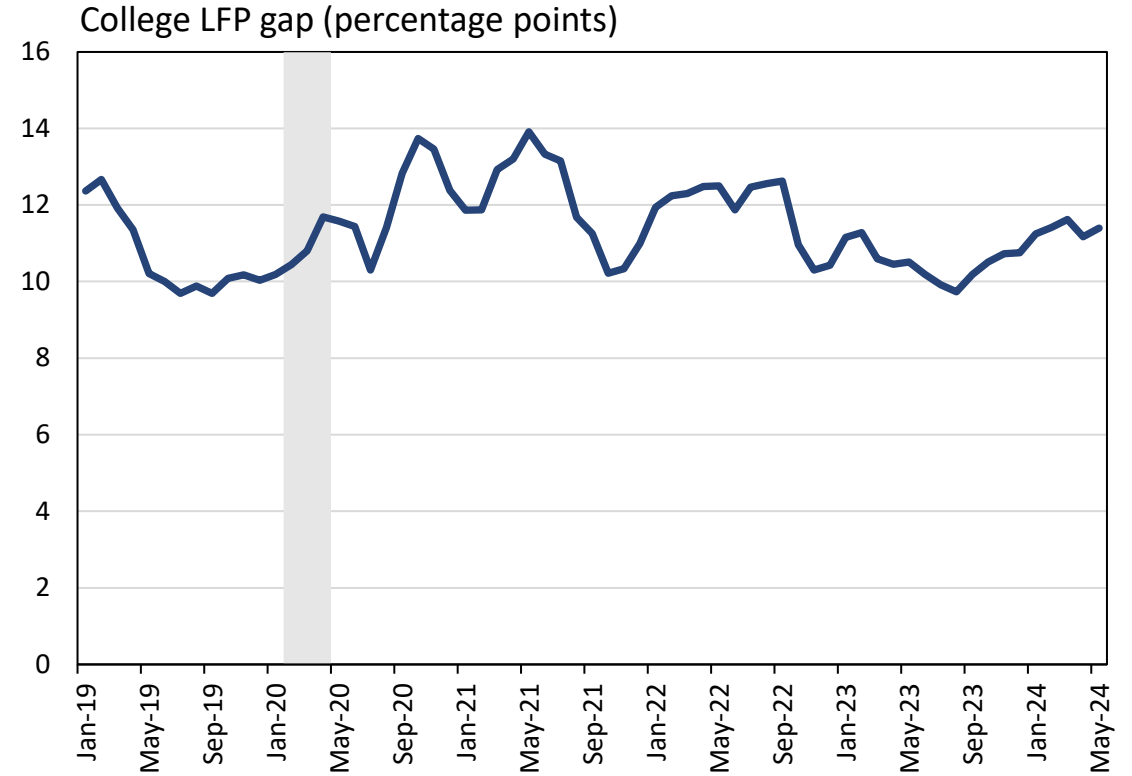
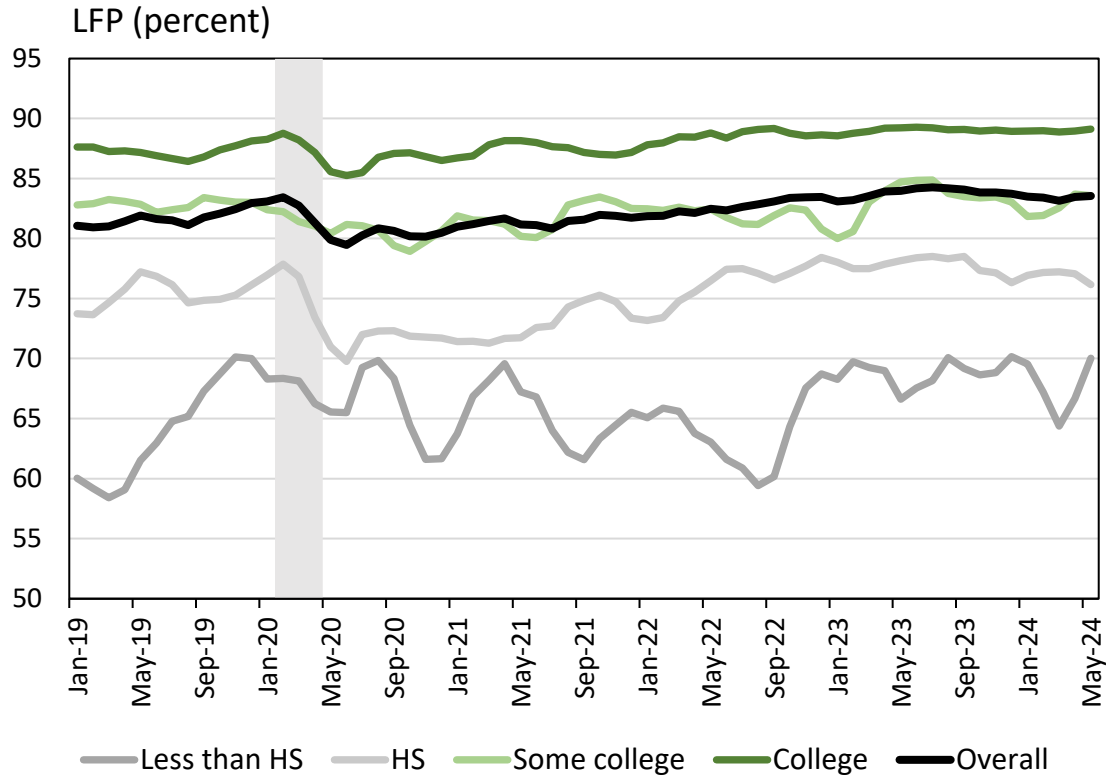


Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

LFP gap defined relative to white LFP.

Labor Force Participation by Education

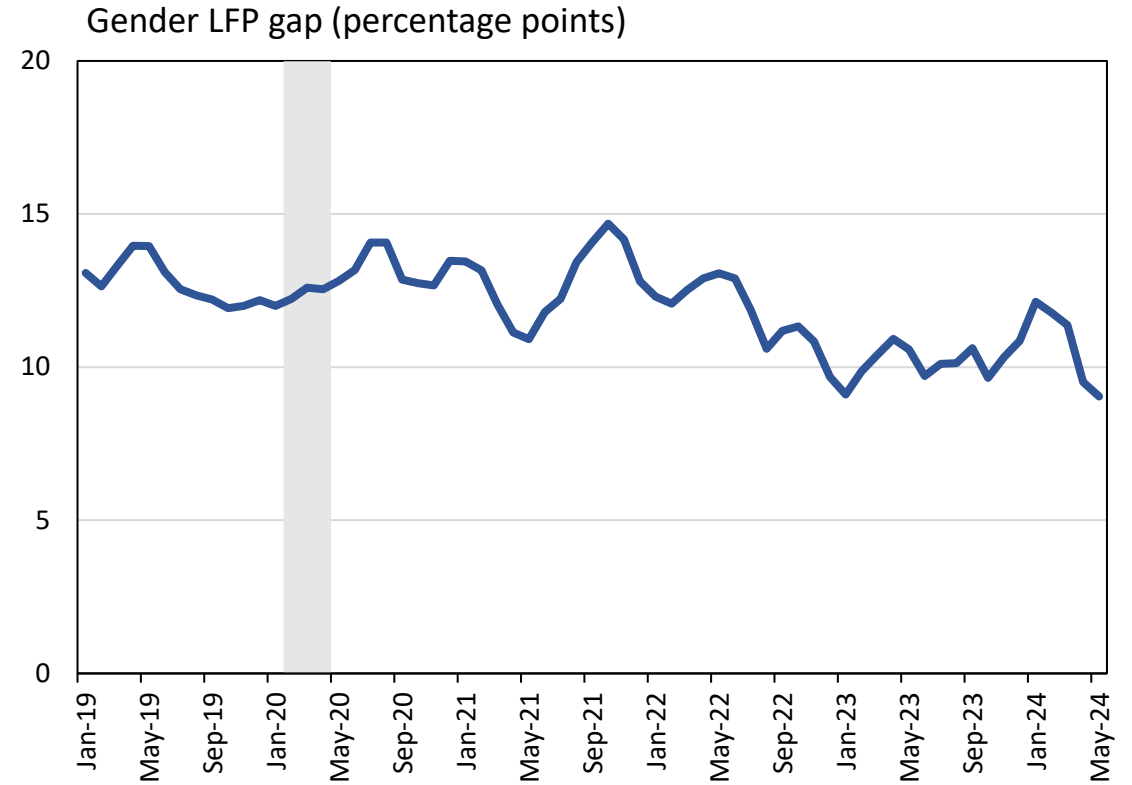
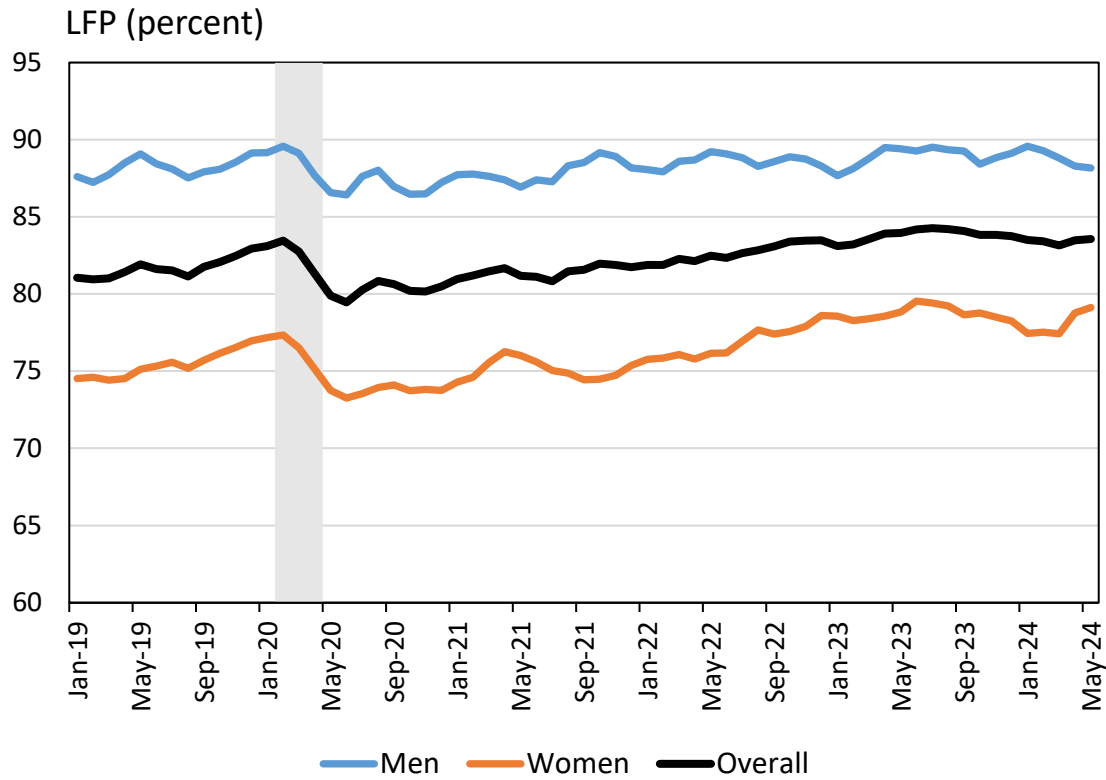


Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

College LFP gap defined as LFP of college graduates relative to non-graduates.

Labor Force Participation by Gender

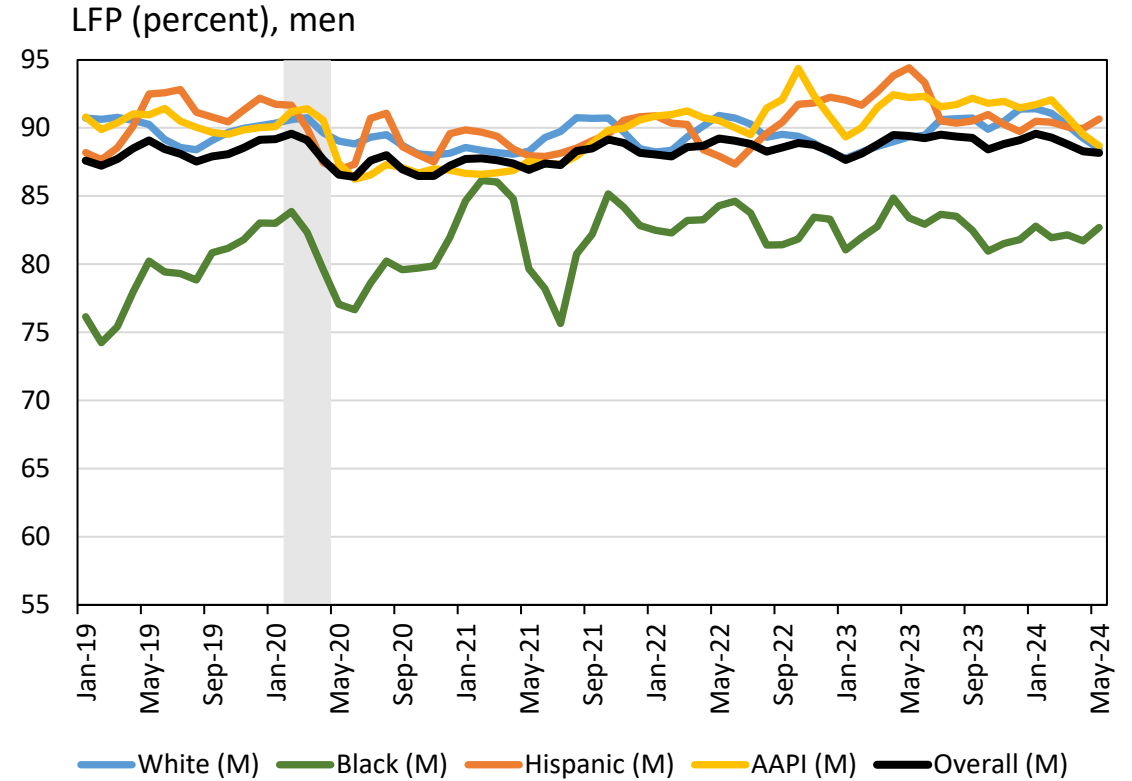
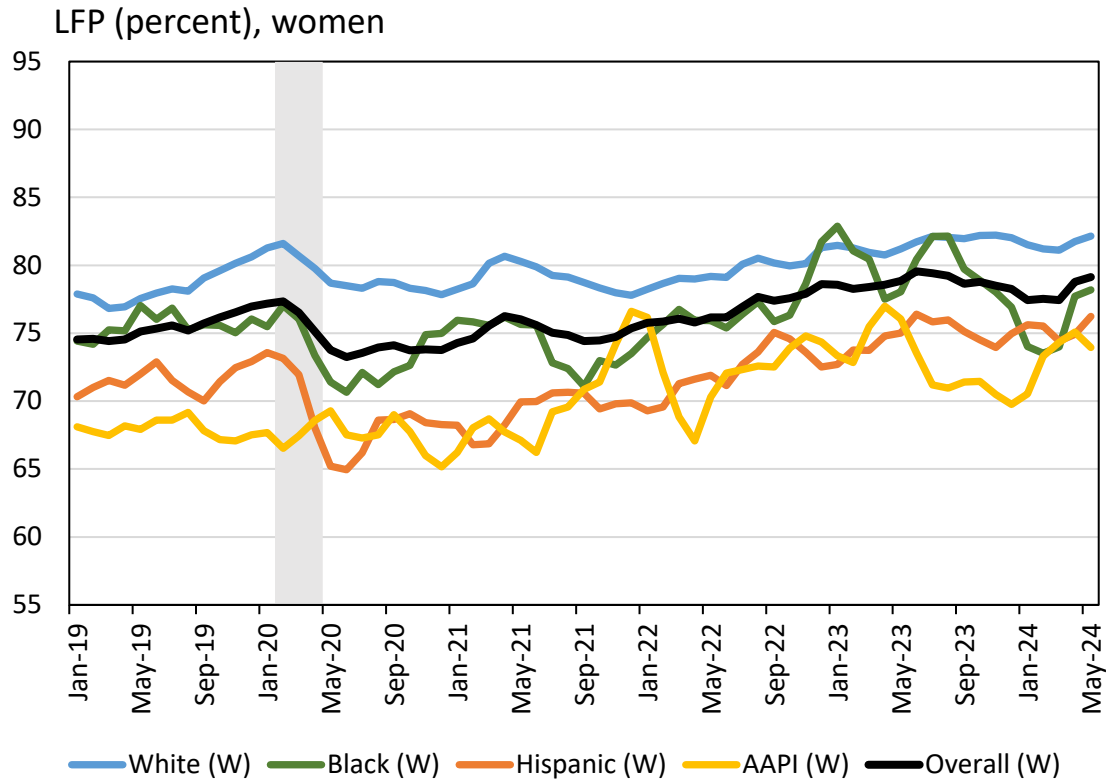


Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Gender LFP gap defined as LFP of men relative to women.

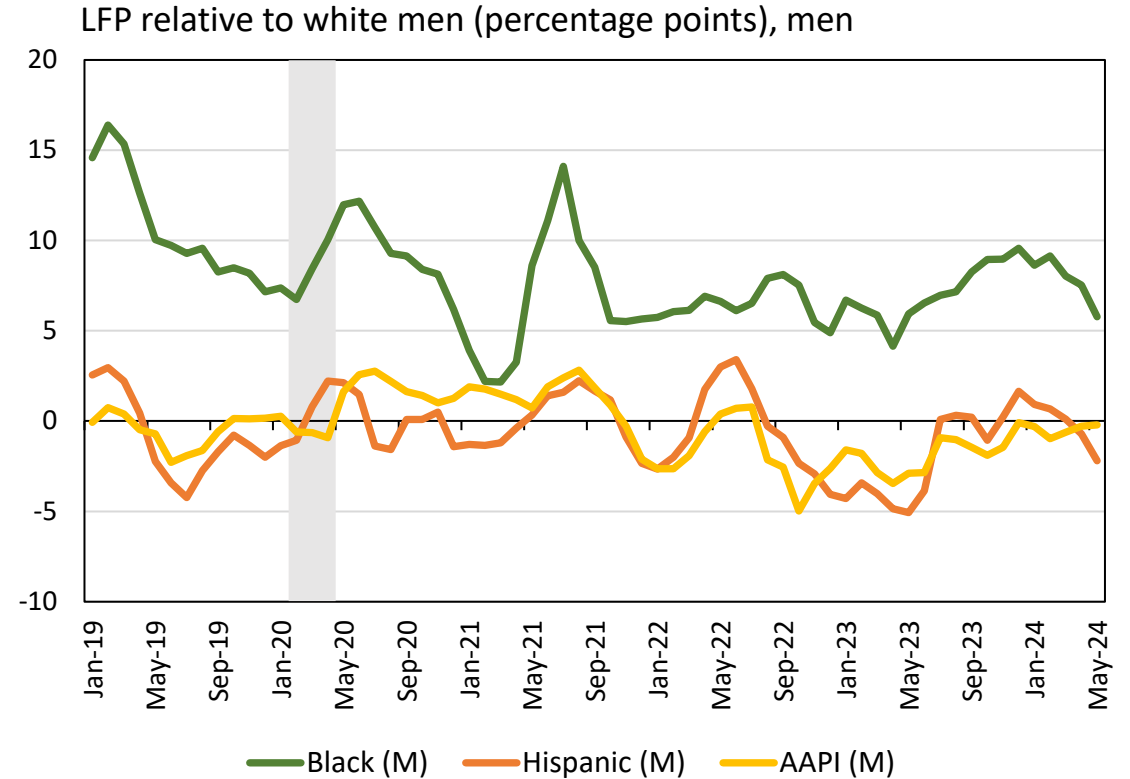
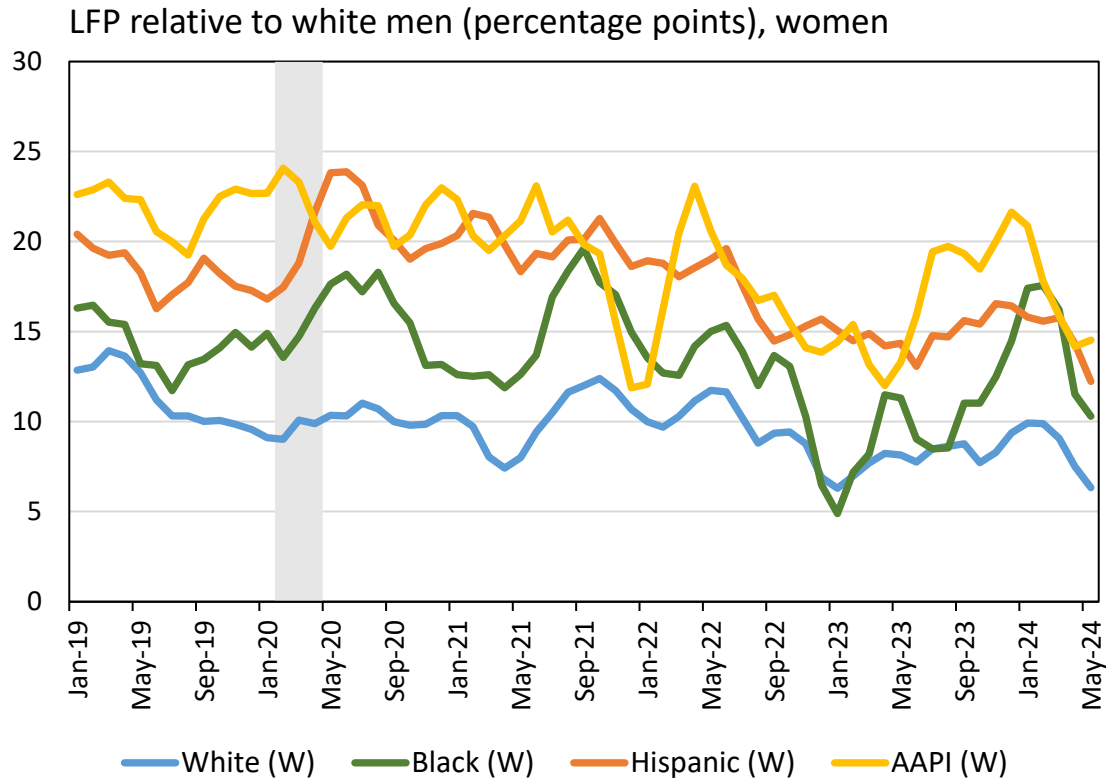
Labor Force Participation by Race x Gender



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

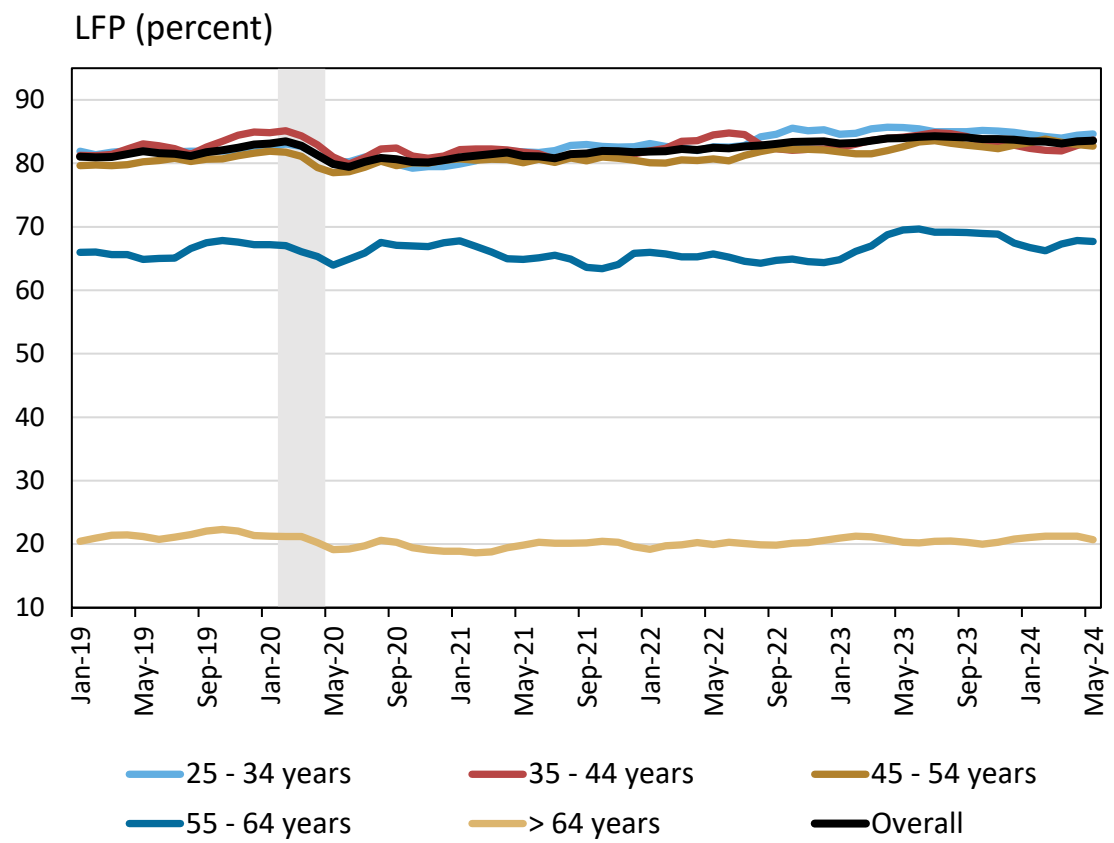
Labor Force Participation Gaps by Race x Gender



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations; three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

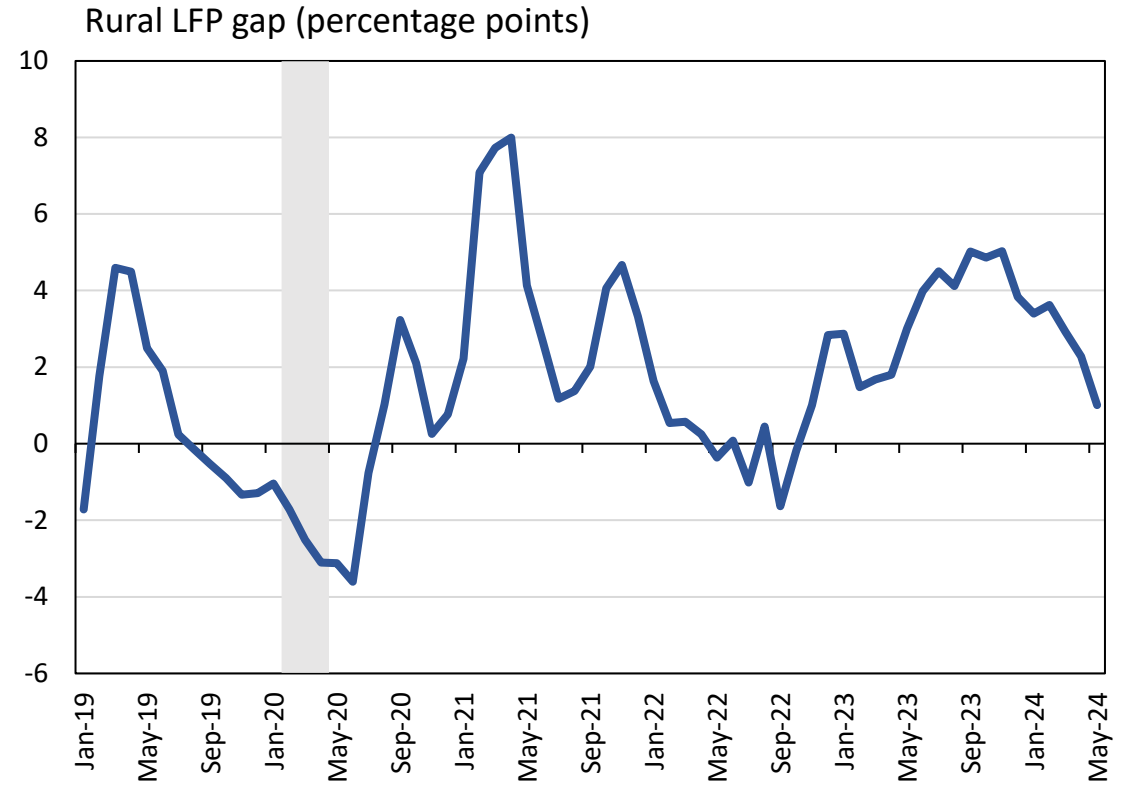
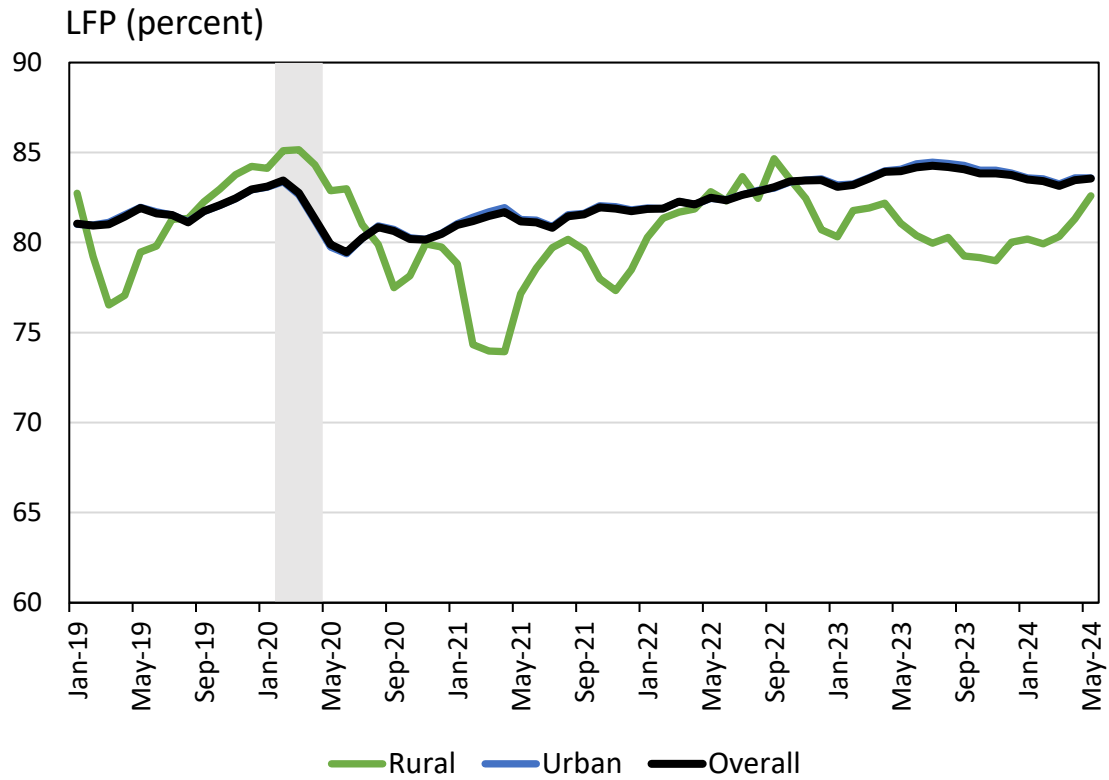
Labor Force Participation by Age



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Overall line uses prime-age (25-54) sample. Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Labor Force Participation by Urban Status



Sources: U.S. Census Bureau/BLS - Current Population Survey microdata; authors' calculations, three-month moving averages.

Notes: Restricted to prime-age individuals (25-54). Shaded region indicates the COVID-19 recession. Includes all counties belonging to the Federal Reserve Second District excluding Puerto Rico, the US Virgin Islands, Warren County, NJ, and Fairfield County, CT, and additionally including Ocean County, NJ.

Rural LFP gap defined as LFP of urban workers relative to rural workers.