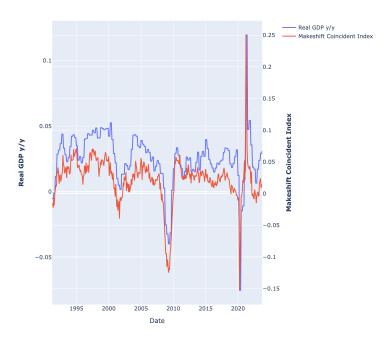
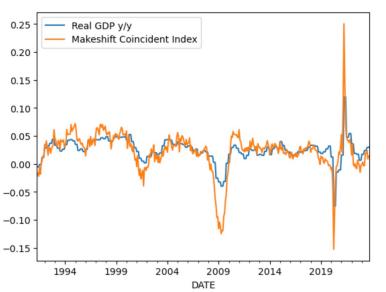
Macro Outlook Replication with Data

- Leading Economic Indicator has declined 21 months in a row.
 - The Fed's most intense hike since the '70s
 - Manufacturers reduced inventories
 - Faced pressures from high input prices
 - China's closure in 2022
- Coincident Index reflects employment, household income, industrial output, and business revenue.
 - Less cyclical and coincides with economic activity
- Couldn't find the LEI on FRED, but used a monthly average of the following:
 - Real Manufacturing and Trade Industries Sales
 - Real Personal Income excluding Current Transfer Receipts
 - Industrial Production
 - Nonfarm Payrolls

Real GDP y/y Realtionship with Makeshift Coincident Index

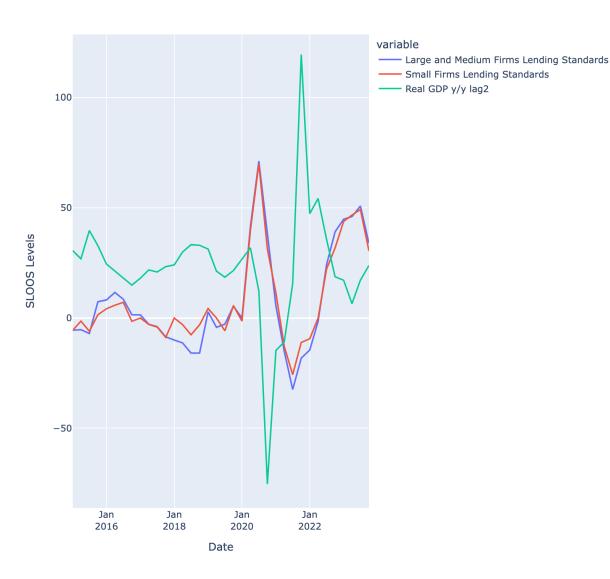




Tight Lending Standards

- Tighter lending standards have been correlated to slower growth periods as Banks lend less.
 - Multiplied Real GDP y/y by 1000 to scale
 - Lag 2 Example: April GDP was pulled ahead to October

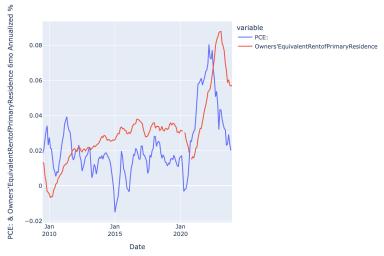
Tight Lending Standards



PCE Inflation Normalizing to Fed Target

- CPI inflation is getting propped up by the rent and shelter portion which usually operates in a lag. This should normalize as Apartments List and Zillow show lower shelter and rent prices.
 - Compared annualized, 6-month annualized, and 3-month annualized PCE to CPI OER

PCE: & Owners'EquivalentRentofPrimaryResidence 6mo Annualized



PCE: & Owners'EquivalentRentofPrimaryResidence 3mo Annualized

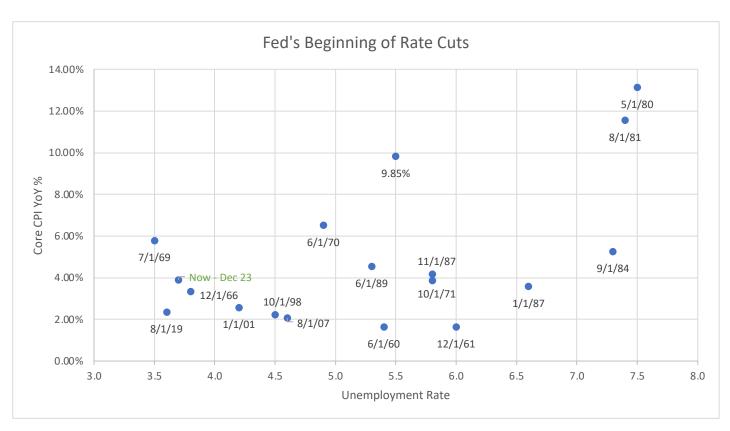


PCE: & Owners'EquivalentRentofPrimaryResidence Annualized



Core CPI and Unemployment: Fed Rate Cuts

- Can see why the markets are pricing in rate cuts starting at the beginning of March
 - Recent Fed speak (Bostic) doesn't want to cut and then need to hike again
- These are all the times where Fed started to cut rates
- Green Text: Where we were most recently
 - Just under 4.0% for CORE CPI
 - Low Unemployment (3.7%)



Fixed Income outperforms after Fed Pause

SPY v Fixed Income: Pause August 2007



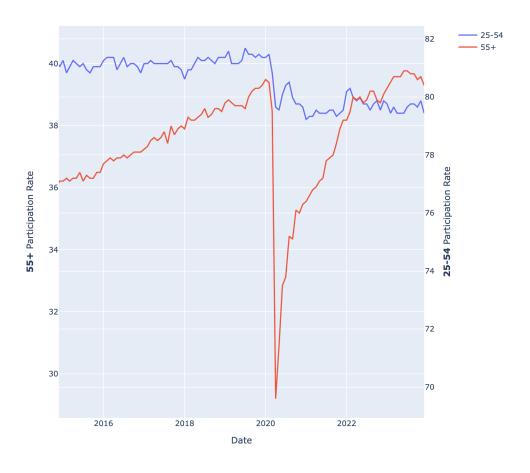
SPY v Fixed Income: Pause August 2019



Labor Force Participation Rate – Leading to Surge in Wages

- The pandemic led early retirements that left the labor force around 2 million workers short from prepandemic estimations.
- The sudden shortfall in labor led to rapid wage increases that attracted more people into the work force to ease the shortage that has since leveled off

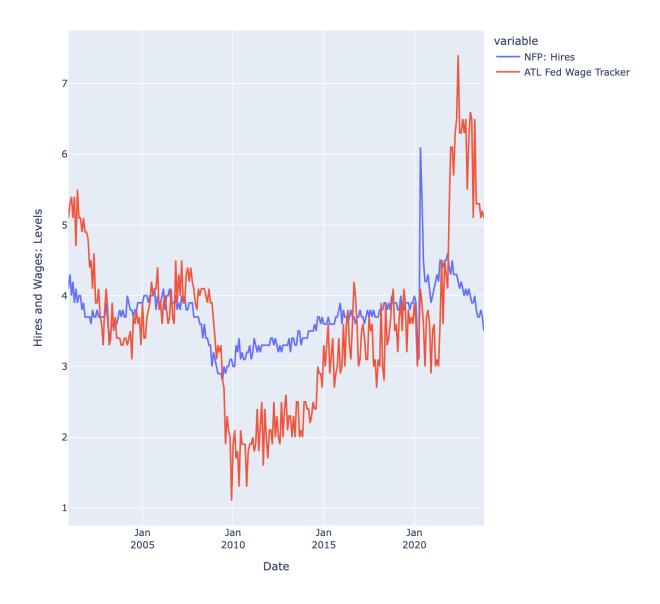
Labor Participation Rate: Shortage Led to Surge in Wages



Hires and Wages

NFP Hires and Wages starting to Normalize

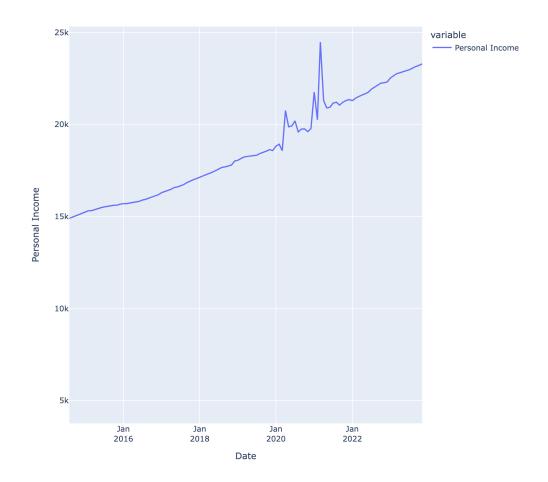
• Wages are normalizing as new hires are declining from highs.



Personal Income

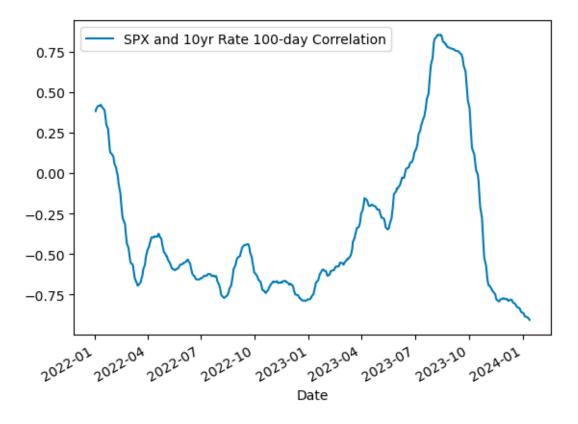
- Personal Income has fallen back to pre-Covid trend.
- Disposable Incomes recovered leading to better consumer demand in '23.

Personal Income Back to Pre-Covid Trend



IG (Price) & Treasuries (Yield)
Moving with Equities –
Alternative Assets like Hedge
Funds & Private Equity





Consumer Staples to Consumer Discretionary – Declining Growth

- Consumer Staples tends to outperform when growth is set to slow
 - Soft data has pointed to increasing stress on the consumer (bank earnings)
 - Net Charge Offs are up on GSIBs almost double from 1Q23 to 4Q23

Consumer Staples Outperforming in Contracting Growth - Real GDP YoY



Consumer Staples Outperforming in Contracting Growth - Real GDP YoY



Healthcare to S&P 500 – Declining Growth

- Healthcare equities tend to outperform when Real GDP slows year-over-year.
- Consumer Demand is expected to slow as wages normalize and personal savings continue to dwindle down.

Healthcare: Declining Growth



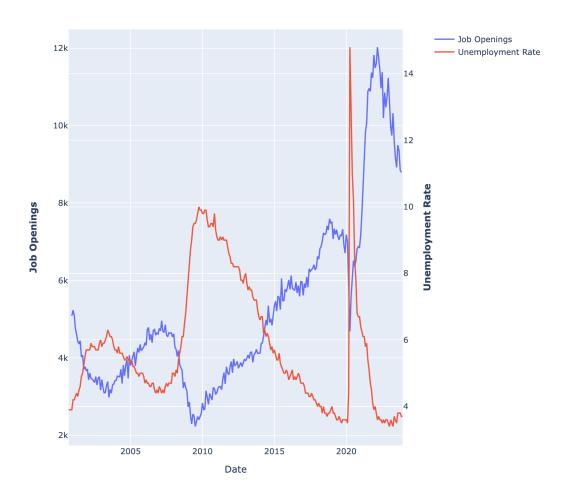
Healthcare: Declining Growth



Job Openings to Unemployment Rate

- Job openings tend be inversely related to the unemployment rate
- As there are less job openings, unemployment goes up.

Job Openings Realtionship with Unemployment Rate



Inverted since November of 2022

- When market becomes more fearful of the economy, flight to quality takes place as investors rush into the 10year treasury that is risk free and very liquid.
 - The yield on the ten-year drops as more demand from the flight to quality drives up the price.

Inverted Yield Curve since November 2022

