

Low-Income Jobs Lost to COVID-19

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DAT 4500

Progress Overview

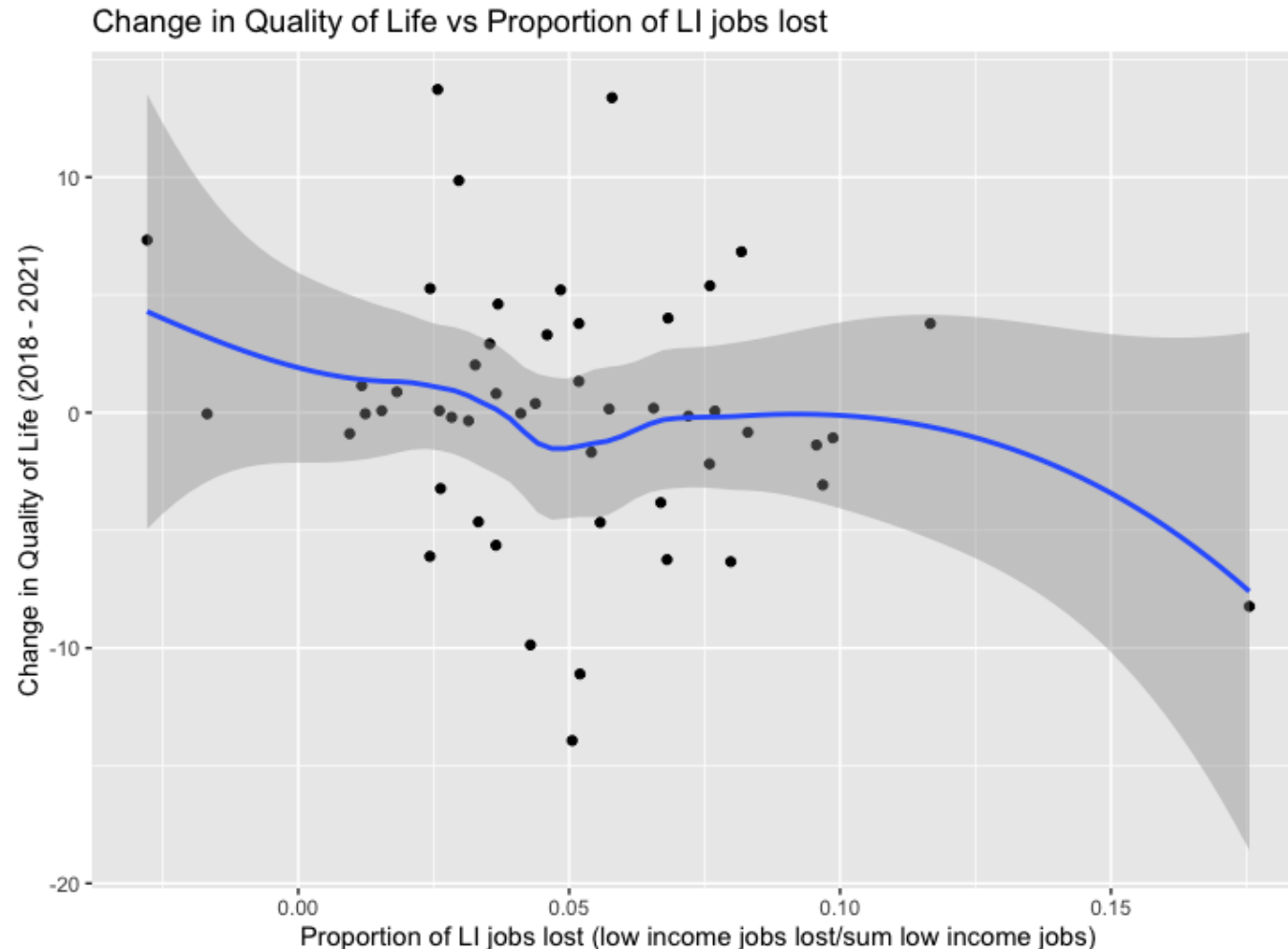
- Initial Ideas & Progress Outcome
- Results for QoL index dataset & Visual
- Introduce Our New Research Question
- Results We Found & Gross Output
- Discuss External Datasets Found
- Conclusion & Plans for Next Week

Initial Idea & Progress Outcome

- Had a hard time finding net low-income job loss by county level
- This week we tried to experiment with the QoL, didn't take us anywhere
- Had to pivot a new research question

Results and Visualizations: QoL Index

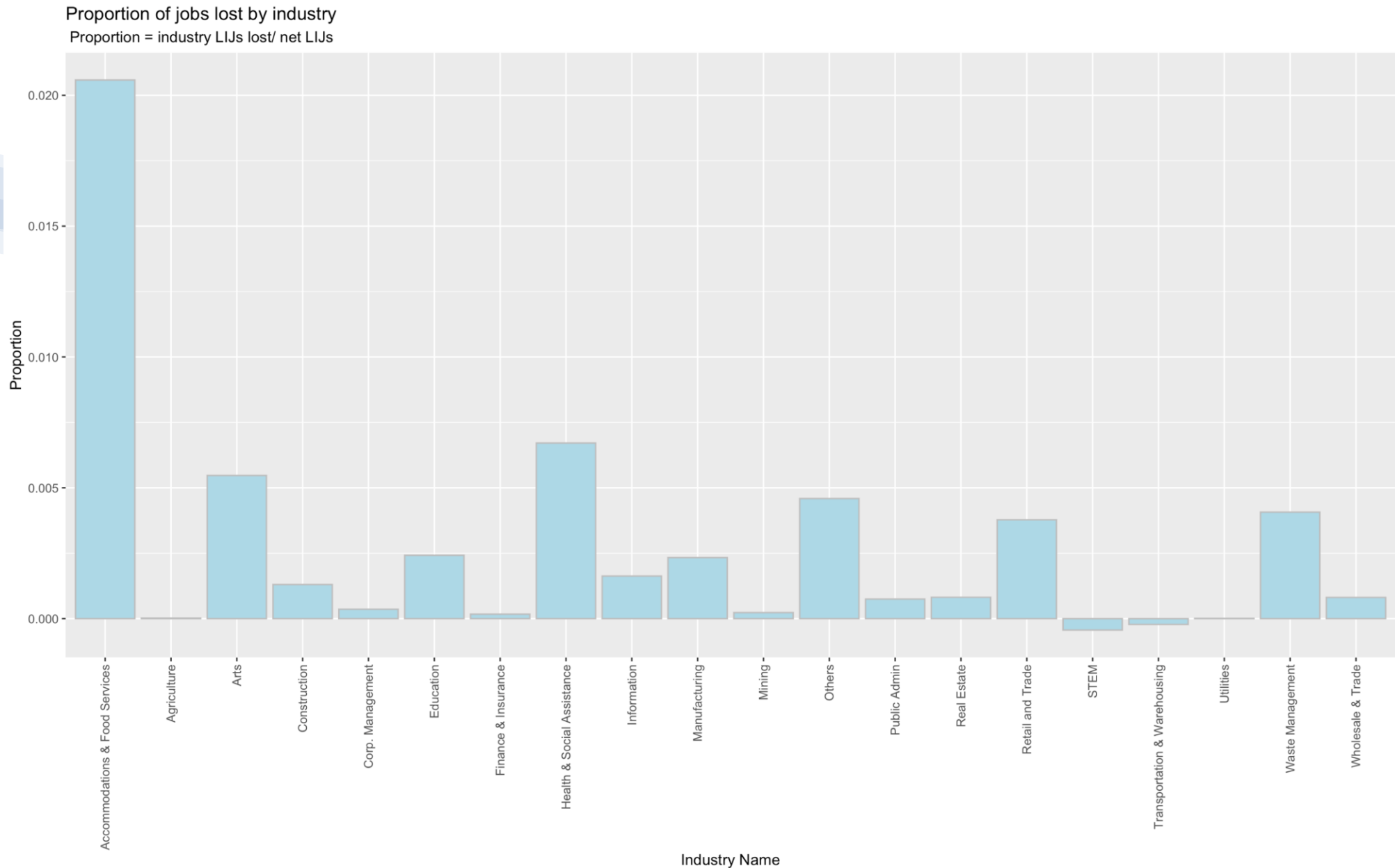
- No correlation between jobs lost quality of life (P-value = 0.1447, Cor. Coefficient = -0.2092501)
(perstate)



New Proposed Research Question

- **Seeing which industries stand out** (which ones did well & which ones didn't)
- **How it impacts different Demographics in certain industries**
- **Look into their performance (GDP), government regulations, policies, etc.**

Results and Visualizations: Job Loss by Industry



- Huge job **loss** in **Accommodations & Food Services** Industry
- An **increase** in jobs in the **STEM & Transportation & Warehousing** Industry

Gross Output in Food Services & Accommodations Industry

"Gross output is principally a measure of sales or revenue from production for most industries, although it is measured as sales or revenue less cost of goods sold for margin industries like retail and wholesale trade" (BEA).

2020 Q1	2020 Q2	2020 Q3	2020 Q4	2021 Q1	2021 Q2	2021 Q3	2021 Q4	2022 Q1
1135.7	682.3	976.3	984.3	1085.3	1286.61	1391.1	1421.9	1441.6

External Datasets: Employed persons by demographics amongst each Industry

- Variables:
 - **Occupation** (Categorized by Industry Name)
 - **Percent Of Total Employed** as of 2021 (By demographics)
 - Total Employed
 - Women
 - White
 - Black or African American
 - Asian
 - Hispanic or Latino

Source: Bureau of Labor Statistics

Link: <https://www.bls.gov/cps/cpsaat11.htm>

External Datasets: Gross Output by Industry

- Variables:
 - **Industry name**
 - **Gross output**
 - BY YEAR
 - BY QUARTER

Source: Bureau of Economic Analysis (BEA)

Link: <https://apps.bea.gov/iTable/?reqid=150&step=2&isuri=1&categories=gdpxin#eyJhcHBpZCI6MTUwLCJzdGVwcyl6WzEsMiwzXSwiZGF0YSI6W1siY2F0ZWdvcmllcyIsIkdkcHhJbmQiXSxbIIRhYmxlX0xpc3QiLCIxNSJdXX0=>

Plan for Next Week

- Go in depth in gross output, how each field gets represented, and how different minorities were affected by COVID-19 job loss.
- Map out demographics on industries (food services, STEM, etc.).

The image features a white background with two decorative curved lines. One line, in the top-left corner, is composed of three concentric arcs in shades of green and blue. A second, similar line is in the bottom-right corner, also in shades of green and blue.

Questions?