

Introduction

The document describes the contents of the replication package for “How Workers Keep Up with Inflation” (Afrouzi et al. (2025)), revision requested in the *Quarterly Journal of Economics*. Actions needed on the replicator’s part are listed in the “Instructions to Replicators” section.

Overview

The program files in this replication package analyzes data from multiple sources using Python, Stata, R and Julia. One main file (`run_all.py`) runs the codes that

- 1) Generate all figures and tables in the main text and the online appendix of the paper.
- 2) Calculate moments to calibrate this paper’s model.

Replicators should expect the code to run about 5 minutes.

Data Availability and Provenance Statements

Fill here

Statement about Rights

- ☐ I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.
- ☐ I certify that the author(s) of the manuscript have documented permission to redistribute/publish the data contained within this replication package. Appropriate permission are documented in the [LICENSE.txt](#) file.

Summary of Availability

- ☐ All data **are** publicly available.
- ☐ Some data **cannot be made** publicly available.
- ☐ **No data can be made** publicly available.
- ☐ Confidential data used in this paper and not provided as part of the public replication package will be preserved for ___ years after publication, in accordance with journal policies.

Details on each Data Source

Data.Name	Data.Files	Location	Provided	Citation
“Job Openings and Labor Turnover Survey	jolts_level.csv jolts_rates.csv jolts_industry_level.csv jolts_industry_rates.csv	data/raw/jolts	TRUE	U.S. Bureau of Labor Statistics (2025)

(JOLTS)”

“Atlanta Fed Wage Tracker (ATL)”	atl_fed_wage.xlsx atl_fed_wage_raw.dta	data/raw/atl_fed	FALSE	Federal Reserve Bank of Atlanta (2025)
“St. Louis Fed (FRED)”	EU.csv UE.csv NU.csv NE.csv fred_urate.csv fred_emp2pop.csv fred_employment.csv profit_share.csv CPI.csv CPI.xls	data/raw/fred	TRUE	U.S. Bureau of Labor Statistics (2025)
“Employer-to-Employer Probability (FMP)”	fmp_ee_flow.csv	data/moments/raw data/raw/fmp	TRUE	Fujita, Moscarini, and Postel-Vinay (2024)
“ADP Pay Insights (ADP)”	adp_pay_history.csv	data/raw/adp	TRUE	ADP (2025)
“Longitudinal Employer-Household Dynamics (LEHD)”	employment_by_education.csv flows_by_education.csv	data/raw/lehd	TRUE	U.S. Census Bureau (2025)
“Barnichon Vacancy Stocks (BAR)”	barnichon_vacancy.csv	data/raw/barnichon	TRUE	Barnichon (2010)
“Work From Home Measure (WFH)”	onet_wfh_code.csv	data/raw/dingelneiman	TRUE	Dingel and Neiman (2020)
“Annual Hours	hours_employed_industry.csv	data/raw/bls	TRUE	U.S. Bureau of

Employed By Industry” (BLS)				Labor Statistics (2025)
“Gallup Analytics” (GALL)	gallup_data.xlsx	data/raw/gallup	TRUE	Gallup Poll Social Series (2025)
“Current Population Survey” (CPS)	cps_00110.dat cps_00108.dat cps_00111.dat	data/moments/raw data/raw	TRUE	Flood et al. (2024)

Each dataset from JOLTS is publicly available and was downloaded from

- <https://www.bls.gov/jlt/data.htm>

Using the One Screen or Multi-Screen tools, replicators can customize the data extraction tool to obtain (i) aggregate levels (jolts_level.csv), (ii) aggregate rates (jolts_rates.csv), (iii) levels by industry (jolts_industry_level.csv), and (iv) rates by industry (jolts_industry_rates.csv) for all measures of interest.

Processed data for the Atlanta Fed Wage Tracker were downloaded from:

- <https://www.atlantafed.org/chcs/wage-growth-tracker>

The underlying microdata used to construct the wage tracker was [...]

Each FRED data series was obtained from publicly accessible pages. The following datasets can be downloaded directly by clicking “Download” on each respective page:

- EU.csv: <https://fred.stlouisfed.org/series/LNS17400000>
- UE.csv: <https://fred.stlouisfed.org/series/LNS17100000>
- fred_unrate.csv: <https://fred.stlouisfed.org/series/UNRATE>
- fred_emp2pop.csv: <https://fred.stlouisfed.org/series/LREM64TTUSM156S>
- CPI.csv: <https://fred.stlouisfed.org/series/CPIAUCSL>

The following datasets must be constructed using the “Edit Graph” tool before download:

- NE.csv: <https://fred.stlouisfed.org/series/LNS17200000> divided by <https://fred.stlouisfed.org/series/LNS15000000>
- NU.csv: <https://fred.stlouisfed.org/series/LNS17600000> divided by <https://fred.stlouisfed.org/series/LNS15000000>
- fred_employment.csv: <https://fred.stlouisfed.org/series/CE160V> merged with <https://fred.stlouisfed.org/series/UNEMPLOY> on month-year

- profit_share.csv: <https://fred.stlouisfed.org/series/CP> divided by <https://fred.stlouisfed.org/series/GDP>

Employer-to-employer probability measure constructed by Fujita, Moscarini, and Postel-Vinay (2024) can be downloaded from a FRED website:

- <https://fred.stlouisfed.org/series/FMPA3MA>

FMP data can be downloaded from:

- <https://www.philadelphiafed.org/surveys-and-data/macroeconomic-data/employer-to-employer-transition-probability#data-download>

Note that the 3-months moving averages differ between two datasets due to the different initial time periods, and we used the series downloaded from the FRED website for our analysis.

ADP Pay Insights data can be directly downloaded from

- <https://payinsights.adp.com/>

LEHD data can be downloaded from

- <https://ledextract.ces.census.gov/>

To download employment_by_education.csv, replicators must go to 'All QWI Measures' page, select 'Sex and Education' in '3. Worker Characteristics' tab, select all the education levels from E1 to E5, and select the quarters from 20161Q to 20241Q. To download flows_by_education.csv, the same procedure must be done in 'Job Flows' page.

Vacancy stock data (barnichon_vacancy.csv), constructed as part of Barnichon (2010), can be directly downloaded by the author's website:

- <https://sites.google.com/site/regisbarnichon/research>

See under '19. Building a composite Help-Wanted Index' and click the associated Google Sheets link to download the data.

Work from home measures (onet_wfh_code.csv) constructed as part of Dingel and Neiman (2020) can be directly download by the author's publicly available Github page:

- https://github.com/jdingel/DingelNeiman-workathome/tree/master/onet_to_BLS_crosswalk/output.

Data on annual hours worked and employment by industry (hours_employed_industry.csv) can be downloaded from the link in the bottom paragraph from:

- <https://www.bls.gov/productivity/technical-notes/industry-hours-and-employment.htm>.

CPS data can be downloaded from

- <https://cps.ipums.org/cps/>

In ‘Select Data’ tab, replicators can select the data filters to obtain the same datasets used for moment generation of this paper. To extract the yearly ASEC data (cps_00110.dat), replicators must select the yearly ‘IPUMS-CPS.ASEC’ series from 2015 to 2023 and select the same set of variables as detailed in /code/2_moments/2_0_build.do. To extract the monthly worker flows data (cps_00108.dat, cps_00111.dat), replicators must select the monthly ‘IPUMS-CPS’ series from January 2014 to June 2024.

Gallup Analytics data was accessed through the proxy server provided by the University of Chicago. Replicators may acquire access to the data using their institution’s subscription.

Dataset list

Data file	Source	Notes	Provided
data/raw/adp/adp_pay_history.csv	ADP	Serves as input for Figure 2.3.A and 2.3.B.	Yes
data/raw/atl_fed/atl_fed_wage_raw.dta	ATL	Serves as input for Figure 2.4.A, 2.4.B, 2.4.C, B.5.B, B.5.C, B.7.A, B.8.A, B.8.B, and Table B.2	No
data/raw/atl_fed/atl_fed_wage.xlsx	ATL	Serves as input for Figure 1.1.B, B.5.A, B.6.A, B.6.B, B.6.C, B.6.D, B.7.A, B.7.B, and B.7.C	Yes
data/raw/barnichon/barnichon_vacancy.xlsx	BAR	Serves as input for Figure 1.1.A, 6.1.A, and 6.1.B.	Yes
data/raw/bls/hours_employed_industry.xlsx	BLS	Serves as input for Figure B.9.	Yes
data/raw/dingelneiman/onet_wfh_code.csv	WFH	Serves as input for Figure 2.4.A, 2.4.B, 2.4.C, and Table B.2	Yes
data/raw/fmp/fmp_ee_flows.csv	FMP	Serves as input for Figure 2.2.A.	Yes
data/raw/fred/CPI.csv	FRED	Serves as input for Figure 1.1.A, 1.1.B, 2.3.A, 2.3.B, 2.4.A, 2.4.B, 2.4.C, 6.1.A, 6.1.B, B.1.A, B.1.B, B.6.A, B.6.B, B.6.C, B.6.D, B.7.A, B.7.B, B.7.C, B.8.A, B.8.B, B.14.A, B.14.B, B.15, and Table B.3.	Yes
data/raw/fred/EU.csv	FRED	Serves as input for Figure B.2.A, B.2.B, B.2.C, and B.4.	Yes
data/raw/fred/fred_emp2pop.csv	FRED	Serves as input for Figure B.2.A, B.2.B, and B.2.C.	Yes
data/raw/fred/fred_employment.csv	FRED	Serves as input for Figure 1.1.A, 2.2.B, 6.1.A, 6.1.B, B.2.A, B.2.B, B.2.C, B.4, and B.13.	Yes

data/raw/fred/fred_urate.csv	FRED	Serves as input for Figure B.2.A, B.2.B, and B.2.C.	Yes
data/raw/fred/NE.csv	FRED	Serves as input for Figure B.3.A and B.3.B.	Yes
data/raw/fred/NU.csv	FRED	Serves as input for Figure B.3.A and B.3.B.	Yes
data/raw/fred/profit_share.csv	FRED	Serves as input for Figure B.14.A, B.14.B, B.15, and Table B.4	Yes
data/raw/fred/UE.csv	FRED	Serves as input for Figure 2.2.B and B.4.	Yes
data/raw/jolts/jolts_industry_level.xlsx	FRED	Serves as input for Figure B.9.	Yes
data/raw/jolts/jolts_industry_rates.xlsx	FRED	Serves as input for Figure B.9.	Yes
data/raw/jolts/jolts_level.csv	FRED	Serves as input for Figure 1.1.A, 6.1.A, 6.1.B, and B.13.	Yes
data/raw/jolts/jolts_rates.csv	FRED	Serves as input for Figure 2.1.A, 2.1.B, 2.1.C, B.1.A, and B.1.B.	Yes
data/raw/lehd/employment_by_education.csv	LEHD	Serves as input for Figure B.10.A and B.10.B	Yes
data/raw/lehd/flows_by_education.csv	LEHD	Serves as input for Figure B.10.A and B.10.B	Yes
data/processed/figure_1_1_A.csv	BAR, FRED, JOLTS	Combines barnichon_vacancy, fred_employment, jolts_level, and CPI, serves as input for Figure 1.1.A.	Yes
data/processed/figure_1_1_B.csv	ATL, FRED	Combines atl_fed_wage and CPI, serves as input for Figure 1.1.B.	Yes
data/processed/figure_2_1.csv	JOLTS	Uses jolts_rates, serves as input for Figure 2.1.A, Figure 2.1.B, and Figure 2.1.C.	Yes
data/processed/figure_2_2_A.csv	FMP	Uses fmp_ee_flow, serves as input for Figure 2.2.A.	Yes
data/processed/figure_2_2_B.csv	FRED	Uses fred_employment and UE, serves as input for Figure 2.2.B.	Yes
data/processed/figure_2_3.csv	ADP, FRED	Combines adp_pay_history and CPI, serves as input for Figure 2.3.A and 2.3.B.	Yes
data/processed/figure_2_4_temp1.csv	ATL,	Combine atl_wage_data_raw and	Yes

data/processed/figure_2_4_temp2.csv	WFH	onet_wfh_code, serves as input for figure_2_4	
data/processed/figure_2_4.csv	ATL, WFH, CPI	Combines figure_2_4_temp1, figure_2_4_temp2, and CPI, serves as input for Figure 2.4.A, 2.4.B, and 2.4.C	Yes
data/processed/figure_6_1.csv	BAR, FRED, JOLTS	Combines barnichon_vacancy, fred_employment, jolts_level, and CPI, serves as input for Figure 6.1.A and 6.1.B.	Yes
data/processed/figure_B_1.csv	JOLTS, FRED	Combines jolts_rates and CPI, serves as input for Figure B.1.A and Figure B.1.B	Yes
data/processed/figure_B_2.csv	FRED	Combines fred_employment, UE, fred_urate, and fred_emp2pop, serves as input for Figure B.2.A, B.2.B, and B.2.C	Yes
data/processed/figure_B_3.csv	FRED	Combines NE and NU, serves as input for Figure B.3.A and Figure B.3.B.	Yes
data/processed/figure_B_4.csv	FRED	Combines fred_employment, EU, and UE, serves as input for Figure B.4.	Yes
data/processed/figure_B_5_A.csv	ATL	Uses atl_fed_wage, serves as input for Figure B.5.A.	Yes
data/processed/figure_B_5_B_C.csv	ATL	Uses atl_fed_wage_raw, serves as input for Figure B.5.B and Figure B.5.C.	Yes
data/processed/figure_B_6.csv	ATL, FRED	Combines atl_fed_wage and CPI, serves as input for Figure B.6.A, B.6.B, B.6.C and B.6.D.	Yes
data/processed/figure_B_7.csv	ATL, FRED	Combines atl_fed_wage and CPI, serves as input for Figure B.7.A, B.7.B and B.7.C.	Yes
data/processed/figure_B_8_temp1.csv data/processed/figure_B_8_temp2.csv	ATL	Uses atl_fed_wage_raw, serves as input for figure_B_8	Yes
data/processed/figure_B_8.csv	ATL, FRED	Combines figure_B_8_temp1,	Yes

		figure_B_8_temp2, and CPI, serves as input for Figure B.8.A, B.8.B, B.8.C.	
data/processed/figure_B_9.csv	BLS, JOLTS	Combines hours_employed_industry, jolts_industry_level, and jolts_industry_rates, serves as input for Figure B.9.	Yes
data/processed/figure_B_10.csv	LEHD	Combines flows_by_education and employment_by_education, serves as input for Figure B.10.	Yes
data/processed/figure_B_12.csv	GALL	Uses gallup_data, serves as input for Figure B.12.	Yes
data/processed/figure_B_13.csv	JOLTS, FRED	Combines jolts_level and fred_employment, serves as input for Figure B.13.	Yes
data/processed/figure_B_14_A.csv	FRED, BAR, JOLTS	Combines CPI, profit_share and figure_1_1_A, serves as input for Figure B.14.A.	Yes
data/processed/figure_B_14_B.csv	FRED, BAR, JOLTS	Combines CPI, profit_share and figure_1_1_A, serves as input for Figure B.14.B.	Yes
data/processed/figure_B_15.csv	FRED, BAR, JOLTS	Combines CPI, profit_share and figure_1_1_A, serves as input for Figure B.15 and Table B.4.	Yes
data/moments/raw/CPI.xls	FRED	Same data as CPI.csv	
data/moments/raw/cps_00108.dat	CPS	Serves as input for flow_moments.csv	
data/moments/raw/cps_00110.dat	CPS	Serves as input for flow_moments.csv and wkly_earn_moments.dta	
data/moments/raw/ee_monthly.csv	FMP	Same data as figure_2_2_A	
data/moments/raw/shimer_decomposition_data.csv	FRED	Same data as figure_B_4	
data/moments/output/flow_moments.csv	FRED, CPS, FMP		
data/moments/output/wkly_earn_moments.dta	FRED, CPS, FMP		

Computational requirements

Software Requirements

- ☐ The replication package contains one or more programs to install all dependencies and set up the necessary directory structure.
- Stata (code was last run with version 19)
- Python (code was last run with version 3.13.5 with the installed dependencies listed below.)
 - pandas 2.3.1
 - numpy 2.3.1.
 - matplotlib 3.10.3
 - scikit-learn 1.7.0
 - statsmodels 0.14.5
 - openpyxl 3.1.5
- Julia (code was last run with version 1.11 with the installed dependencies listed below.)
 - Binscatters v0.4.0
 - CSV v0.10.15
 - CategoricalArrays v0.10.8
 - DataFrames v1.7.0
 - DataFramesMeta v0.15.4
 - DelimitedFiles v1.9.1
 - FileIO v1.17.0
 - LaTeXStrings v1.4.0
 - PGFPlotsX v1.6.2
 - PanelDataTools v0.3.0
 - PeriodicalDates v2.0.0
 - Plots v1.40.16
 - Revise v3.8.0
 - Dates v1.11.0
- R
 - ipumsr 0.9.0
 - tidyverse 2.0.0
 - ggplot2 3.5.2

- writexl 1.5.4
 - haven 2.5.5
- STATA
 - esttab
 - egenmore

Controlled Randomness

- ☐ Random seed is set at line ____ of program ____
- ☐ No Pseudo random generator is used in the analysis described here.

Memory, Runtime, Storage Requirements

Summary

Approximate time needed to reproduce the analyses on a standard (2025) desktop machine:

- ☐ <10 minutes
- ☐ 10-60 minutes
- ☐ 1-2 hours
- ☐ 2-8 hours
- ☐ 8-24 hours
- ☐ 1-3 days
- ☐ 3-14 days
- ☐ > 14 days

Approximate storage space needed:

- ☐ < 25 MBytes
- ☐ 25 MB - 250 MB
- ☐ 250 MB - 2 GB
- ☐ 2 GB - 25 GB
- ☐ 25 GB - 250 GB
- ☐ > 250 GB

- ❑ Not feasible to run on a desktop machine, as described below.

Details

The code was last run on a 14-inch MacBook Pro (2021) with an Apple M1 Pro chip, 16 GB of unified memory, macOS Sequoia 15.5, and 1 TB of free space.

Description of programs/code

- code/run_all.py will run all the dependencies described below. The default paths will be automatically adjusted for replicators.
- Programs in code/1_process will process the primitive data in data/raw and save the processed data in data/processed.
- Programs in code/1_figures will use the processed data in data/processed and generate the outputs in output/figures and output/tables.
- Programs in code/2_moments will calculate the model moments using the primitive data in data/moments/raw and save the output in data/moments/output.

Instructions to Replicators

- Download the data files referenced above. Each data must be stored in the prepared subdirectories inside data folder. Unzip the data files and rename them as referenced above. [Dropbox?]
- Run files in 0_setup to ensure that the required packages are installed for all programming languages.
- Edit the lines at the top of run_all.py to adjust the executable paths for Stata, Julia and R.
- Run run_all.py.

Details

- Replicators can also manually install the required packages in this document's "Software Requirements" section.
- Each code file includes scripts that identify replicators' OS and automatically adjust the working directories.

List of tables and programs

Figure/Table #	Program	Line Number	Output file	Note
Figure 1.1, Panel A	0_process/0_1_process_main.py		figure_1_1_A.csv	
	1_figures/1_0_figures_main.jl		figure_1_1_A.pdf	
Figure 1.1, Panel B	0_process/0_1_process_main.py		figure_1_1_B.csv	
	1_figures/1_0_figures_main.jl		figure_1_1_B.pdf	

Figure 2.1, Panel A	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_1.csv figure_2_1_A.pdf
Figure 2.1, Panel B	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_1.csv figure_2_1_B.pdf
Figure 2.1, Panel C	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_1.csv figure_2_1_C.pdf
Figure 2.2, Panel A	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_2_A.csv figure_2_2_A.pdf
Figure 2.2, Panel B	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_2_B.csv figure_2_2_B.pdf
Figure 2.3, Panel A	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_3.csv figure_2_3_A.pdf
Figure 2.3, Panel B	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_3.csv figure_2_3_B.pdf
Figure 2.4, Panel A	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_4.csv figure_2_4_A.pdf
Figure 2.4, Panel B	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_4.csv figure_2_4_B.pdf
Figure 2.5, Panel A	0_process/0_0_process_main.do 0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_5_temp1.csv figure_2_5_temp2.csv figure_2_5.csv figure_2_5_A.pdf
Figure 2.5, Panel B	0_process/0_0_process_main.do 0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_5_temp1.csv figure_2_5_temp2.csv figure_2_5.csv figure_2_5_B.pdf
Figure 2.5, Panel C	0_process/0_0_process_main.do 0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_2_5_temp1.csv figure_2_5_temp2.csv figure_2_5.csv figure_2_5_C.pdf
Figure 6.1, Panel A	0_process/0_1_process_main.py 1_figures/1_0_figures_main.jl	figure_6_1.csv figure_6_1_A.pdf
Figure 6.1, Panel B	0_process/0_1_process_main.py 1_figures/1_1_figures_main.py	figure_6_1.csv figure_6_1_B.pdf
Figure B.1, Panel A	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_1.csv figure_B_1_A.pdf
Figure B.1, Panel B	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_1.csv figure_B_1_B.pdf
Figure B.2, Panel A	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_2.csv figure_B_2_A.pdf
Figure B.2, Panel B	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_2.csv figure_B_2_B.pdf

Figure B.2, Panel C	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_2.csv figure_B_2_C.pdf
Figure B.3, Panel A	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_3.csv figure_B_3_A.pdf
Figure B.3, Panel B	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_3.csv figure_B_3_B.pdf
Figure B.4	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_4.csv figure_B_4.pdf
Figure B.5, Panel A	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_5_A.csv figure_B_5_A.pdf
Figure B.5, Panel B	0_process/0_2_process_appendix.do 1_figures/1_3_figures_appendix.py	figure_B_5_B_C.csv figure_B_5_B.pdf
Figure B.5, Panel C	0_process/0_2_process_appendix.do 1_figures/1_3_figures_appendix.py	figure_B_5_B_C.csv figure_B_5_C.pdf
Figure B.6, Panel A	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.jl	figure_B_6.csv figure_B_6_A.pdf
Figure B.6, Panel B	0_process/0_3_process_appendix.py 1_figures/1_2_figures_appendix.jl	figure_B_6.csv figure_B_6_B.pdf
Figure B.7, Panel A	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_7.csv figure_B_7_A.pdf
Figure B.7, Panel B	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_7.csv figure_B_7_B.pdf
Figure B.7, Panel C	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_7.csv figure_B_7_C.pdf
Figure B.8, Panel A	0_process/0_2_process_appendix.do 0_process/0_3_process_appendix.py 1_figures/1_2_figures_appendix.jl	figure_B_8_temp1.csv figure_B_8_temp2.csv figure_B_8.csv figure_B_8_A.pdf
Figure B.8, Panel B	0_process/0_2_process_appendix.do 0_process/0_3_process_appendix.py 1_figures/1_2_figures_appendix.jl	figure_B_8_temp1.csv figure_B_8_temp2.csv figure_B_8.csv figure_B_8_B.pdf
Figure B.8, Panel C	0_process/0_2_process_appendix.do 0_process/0_3_process_appendix.py 1_figures/1_2_figures_appendix.jl	figure_B_8_temp1.csv figure_B_8_temp2.csv figure_B_8.csv figure_B_8_C.pdf
Figure B.9	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_9.csv figure_B_9.pdf
Figure B.10, Panel A	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_10.csv figure_B_10_A.pdf
Figure B.10, Panel B	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_10.csv figure_B_10_B.pdf

Figure B.12	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_12.csv figure_B_12.pdf
Figure B.13	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_13.csv figure_B_13.pdf
Figure B.14, Panel A	0_process/0_3_process_appendix.py 1_figures/1_2_figures_appendix.jl	figure_B_14_A.csv figure_B_14_A.pdf
Figure B.14, Panel B	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_14_B.csv figure_B_14_B.pdf
Figure B.15	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_15.csv figure_B_15.pdf
Table 4	0_process/0_1_process_main.py 1_process/1_1_figures_main.py	figure_6_1.csv table_4.tex
Table B.1		table_B_1.tex
Table B.2		table_B_2.tex
Table B.3		table_B_3.tex
Table B.4	0_process/0_3_process_appendix.py 1_figures/1_3_figures_appendix.py	figure_B_14_B.csv table_B_4.tex

References

ADP Research Institute. (2025, June). *ADP® Pay Insights*. Retrieved July 21, 2025.

Barnichon, R. (2010): “Building a composite Help-Wanted Index,” *Economics Letters*, 109(3), 175–178.

Bureau of Labor Statistics, Office of Productivity and Technology. Annual Hours Worked and Employment: Detailed Industries. Data released April 24, 2025. Retrieved July 21, 2025.

Dingel, J. I., and B. Neiman (2020): “How many jobs can be done at home?,” *Journal of public economics*, 189, 104235.

Federal Reserve Bank of Atlanta, Wage Growth Tracker, <https://www.atlantafed.org/chcs/wage-growth-tracker> (accessed July 21, 2025)

Federal Reserve Bank of Philadelphia, 3-Month Moving Average of Average Probability of U.S. Workers Making Employer to Employer Transitions [FMPSA3MA], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/FMPSA3MA>, July 21, 2025.

Gallup Poll Social Series (2025). Gallup Analytics Campus Portal. <https://analyticscampus-gallup-com.proxy.uchicago.edu/Tables>.

Organization for Economic Co-operation and Development, Infra-Annual Labor Statistics: Employment Rate Total: From 15 to 64 Years for United States [LREM64TTUSM156S],

retrieved from FRED, Federal Reserve Bank of St. Louis;
<https://fred.stlouisfed.org/series/LREM64TTUSM156S>, July 21, 2025.

Sarah Flood, Miriam King, Renae Rodgers, Steven Ruggles, J. Robert Warren, Daniel Backman, Annie Chen, Grace Cooper, Stephanie Richards, Megan Schouweiler, and Michael Westberry. IPUMS CPS: Version 12.0 [dataset]. Minneapolis, MN: IPUMS, 2024.
<https://doi.org/10.18128/D030.V12.0>

U.S. Bureau of Labor Statistics, U.S. Department of Labor, Job Openings and Labor Turnover Survey (JOLTS), Retrieved July 21, 2025

U.S. Bureau of Labor Statistics, Not in Labor Force [LNS15000000], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/LNS15000000>, July 21, 2025.

U.S. Bureau of Labor Statistics, Labor Force Flows Unemployed to Employed [LNS17100000], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/LNS17100000>, July 21, 2025.

U.S. Bureau of Labor Statistics, Labor Force Flows Not in Labor Force to Employed [LNS17200000], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/LNS17200000>, July 21, 2025.

U.S. Bureau of Labor Statistics, Labor Force Flows Employed to Unemployed [LNS17400000], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/LNS17400000>, July 21, 2025.

U.S. Bureau of Labor Statistics, Labor Force Flows Not in Labor Force to Unemployed [LNS17600000], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/LNS17600000>, July 21, 2025.

U.S. Bureau of Labor Statistics, Consumer Price Index for All Urban Consumers: All Items in U.S. City Average [CPIAUCSL], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/CPIAUCSL>, July 21, 2025.

U.S. Bureau of Labor Statistics, Unemployment Rate [UNRATE], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/UNRATE>, July 21, 2025.

U.S. Bureau of Labor Statistics, Employment Level [CE16OV], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/CE16OV>, July 21, 2025.

U.S. Bureau of Labor Statistics, Unemployment Level [UNEMPLOY], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/UNEMPLOY>, July 21, 2025.

U.S. Bureau of Labor Statistics, U.S. Department of Labor, Industry Hours and Employment: Technical Notes, <https://www.bls.gov/productivity/technical-notes/industry-hours-and-employment.htm> (accessed July 21, 2025)

U.S. Bureau of Economic Analysis, Corporate Profits After Tax (without IVA and CCAdj) [CP], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/CP>, July 21, 2025.

U.S. Bureau of Economic Analysis, Gross Domestic Product [GDP], retrieved from FRED, Federal Reserve Bank of St. Louis; <https://fred.stlouisfed.org/series/GDP>, July 21, 2025.

U.S. Census Bureau, Center for Economic Studies, LEHD, <https://ledextract.ces.census.gov/>, accessed on July 21, 2025

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