Replication Files for "Immigration and Redistribution"

by Alberto Alesina, Armando Miano, and Stefanie Stantcheva

Date: February 2022
Author: Armando Miano
For questions and comments please write to amiano@g.harvard.edu

This replication package reproduces all the figures and tables in the main text of "Immigration and Redistribution." To generate a figure or table you should run the relevant dofile (or dofile + R script, for Figures 2 to 7 and 9), following the instructions below.

Content of the Folders

Data:

– survey_analysis.dta: dataset containing the cleaned data from the main survey wave plus local statistics on immigrants and non-immigrants

Sources:

– Database_US.xlsx: excel file containing the national statistics on immigrants and non-immigrants for the U.S. used in the analysis, as well as details on how we computed the statistics, and the sources we used

– Database_EU.xlsx: excel file containing the national statistics on immigrants and non-immigrants for Italy, France, Germany, Sweden, and the U.K., as well as details on how we computed the statistics and the sources we used

– Database_local_EU.xlsx: excel file containing the local statistics on immigrants and non-immigrants for Italy, France, Germany, Sweden, and the U.K., together with their sources

Do:

– misperceptions.do: adds the national statistics on immigrants and non-immigrants (natives) to the survey data and generates the misperceptions variables. This file is recalled in multiple dofiles

Do/Figures:

– Fig2to7_9_data.do computes the data plotted in Figures 2 to 7 and Figure 9, and exports them in .csv in the folder Out/Figures_data

– Fig2to7.Rmd generates Figures 2 to 7 in R in png format using the data exported by Fig2to7_9_data.do. You should run Fig2to7_9_data.do before running this script

– Fig8.do generates Figure 8 in eps format

– Fig9.Rmd generates Figures 9 in R in png format using the data exported by Fig2to7_9_data.do. You should run Fig2to7_9_data.do before running this script. See instructions below

– Fig10.do generates Figure 10 in eps format

Do/Tables:

– Tab1.do generates Table 1

– Tab2_3.do generates Tables 2 and 3

  – Tab4to6.do generates Tables 4 to 6

Out

  – Collects the figures, figures data and tables produced by the scripts in *Do*

Data Availability Statement

Survey data   All our survey data needed to replicate the results in the paper are available in the folder Data.

National statistics on immigrants and non-immigrants   Table 1 provides a summary of the sources we used for the statistics on immigrants and non-immigrants at the national level. Information on the calculations we performed is available in Section A-2 of the Online Appendix. The excel files Database_US and Database_EU in the folder *Sources* of this replication package also report these calculations, and show how we get to the statistics we use in the analysis from the raw data.

Local statistics on immigrants and non-immigrants   Table 2 lists the sources we used for the statistics on immigrants and non-immigrants at the local level. The details on the calculations we performed are available in Section A-2 of the Online Appendix.

The local-level statistics on immigrants, non-immigrants and minorities in the U.S., with the exception of unemployment, are computed at the county level from the 5-year 2017 American Community Survey (ACS) and then aggregated at the commuting zone level using the county-cz crosswalk in Autor and Dorn (2013). Because of lack of county-level data on employment by country of birth, the unemployment rate for immigrants and non-immigrants is computed at the state level from the 5-year 2017 ACS.

Unless otherwise noted, all the local statistics for Italy, Sweden and France are at the NUTS2 level; for Germany and the U.K at the NUTS1 level. The excel file Database_local_EU in the folder *Sources* of this replication package shows how we computed the local statistics from the raw data for these countries.

Software requirements

Stata: we run the dofiles on Stata 17 but they should work with older versions as well. You should install the command frmttable before running Tab1.do – type "search frmttable" and select the package sg97_5. You should install the command appendfile (available through ssc install) to run Tab2_3.do and Tab4to6.do. winsor2 (available through ssc install) is also required to run Tab4to6.do.

R: we run the scripts on R 4.1.2 using Rstudio. Before running the R scripts you should install the package Cairo following these steps:

  – install.packages("devtools")

  – require(devtools)

  – install_github("s-u/Cairo")

You should also install the font LM Roman 10 and load the following packages: tidyverse, extrafont, gtable, ggplot2, gridExtra, grid, cowplot, grDevices.

Instructions to run the scripts

Stata: at the beginning of each dofile you should specify the directory (dir) where this replication package is located on your computer. The default directory for the output produced by each do file is Out and its subfolders, but it can be changed by modifying the global outdir.

R: you should specify the directory where this replication package is located on your computer in lines 27 and 58 of Fig2to7.Rmd, and 27 and 36 of Fig9.Rmd.

TABLE 1: NATIONAL STATISTICS ON IMMIGRANTS AND NON-IMMIGRANTS – DATA SOURCES

Statistic	Country	Source
Share of documented immigrants	U.S.	Own calculations on Pew Research Center (2017b) and Pew Research Center (2017a)
Origins of documented immigrants	U.S.	Own calculations on Pew Research Center (2017b) and Pew Research Center (2017a)
Share of second-generation immigrants	U.S.	Pew Research Center (2018)
Religion of documented immigrants	U.S.	Pew Research Center (2013)
Unemployment of documented immigrants	U.S.	Own calculations on Pew Research Center (2017b) and Center for Migration Studies (2017)
Poverty rate of documented immigrants	U.S.	Own calculations on Pew Research Center (2017b) and Center for Migration Studies (2017)
Education of documented immigrants	U.S.	Own calculations on U.S. Census Bureau (2015) and Center for Migration Studies (2017)
Unemployment of non-immigrants	U.S.	OECD (2017)
Education of non-immigrants	U.S.	U.S. Census Bureau (2017a)
Poverty rate of non-immigrants	U.S.	U.S. Census Bureau (2017e)
Share of immigrants	France, Germany, Italy, Sweden, U.K.	United Nations (2017)
Origins of immigrants	France, Germany, Italy, U.K.	Own calculations on United Nations (2017)
Origins of immigrants	Sweden	Own calculations on OECD (2015)
Share of second-generation immigrants	France	INSEE (2017)
Share of second-generation immigrants	Germany	Destatis (2017b)
Share of second-generation immigrants	Italy, U.K.	Eurostat (2014)
Share of second-generation immigrants	Sweden	Statistics Sweden (2017a)
Religion of immigrants	France, Germany, Italy, Sweden, U.K.	Pew Research Center (2012)
Unemployment of immigrants and non-immigrants	France, Germany, Italy, Sweden, U.K.	OECD (2017)
Education of immigrants and non-immigrants	France, Germany, Italy, Sweden, U.K.	Eurostat (2016b)
Poverty rate of immigrants and non-immigrants	France, Germany, Italy, Sweden, U.K.	Eurostat (2016a)

Table 2: Local Statistics on Immigrants and Non-immigrants – Data Sources

Statistic	Country	Source
Share and origins of immigrants, education of immigrants and non-immigrants, share of African American and Hispanic, poverty rate	U.S.	Own aggregation at the commuting zone level of county-level data from U.S. Census Bureau, 2017b, 2017c, 2017d, and 2017f, aggregated using the county-cz crosswalk in Autor and Dorn (2013)
Unemployment of immigrants and non-immigrants	U.S.	State-level data from U.S. Census Bureau (2017f)
Share of immigrants	France	Own aggregation at the NUTS2 level from INSEE (2016b)
Share of immigrants	Germany	Integrationsministerkonferenz (2017)
Share of immigrants	Italy	ISTAT (2018a)
Share and Origins of immigrants	Sweden	Statistics Sweden (2017b)
Share and origins of immigrants	U.K.	ONS (2017)
Origins of immigrants	France	Own calculations at the NUTS1 level from microdata from INSEE (2016c)
Origins of immigrants	Germany	Destatis (2020)
Origins of immigrants	Italy	ISTAT (2018b)
Unemployment of immigrants and non-immigrants	France, Germany, Italy, Sweden, U.K.	Eurostat (2017c)
Education of immigrants and non-immigrants	France, Germany, Italy, Sweden, U.K.	Eurostat (2017b)
Poverty rate	France	Own aggregation at the NUTS2 level from INSEE (2016a)
Poverty rate	Germany	Destatis (2017a)
Poverty rate	Italy, Sweden	Eurostat (2017a)
Poverty rate	U.K.	Department of Work and Pensions (2019)

References

Autor, D. and D. Dorn (2013). The Growth of Low-skill Service Jobs and the Polarization of the U.S. Labor Market. *American Economic Review 103*(5), 1553–97.

Center for Migration Studies (2017). State-Level Unauthorized Population and Eligible-to-Naturalize Estimates, 2015. http://data.cmsny.org. Accessed June 27, 2018.

Department of Work and Pensions (2019). Households Below Average Income, 2017/18. https://www.gov.uk/government/statistics/households-below-average-income-199495-to-201718. Accessed March 24, 2020.

Destatis (2017a). Armutsgefährdung in den Bundesländern weiter unterschiedlich. https://www.destatis.de/DE/Presse/Pressemitteilungen/2017/08/PD17_298_122.html. Accessed March 16, 2020.

Destatis (2017b). Bevölkerung mit Migrationshintergrund 2017 um 4,4% gegenüber Vorjahr gestiegen. https://www.destatis.de/DE/PresseService/Presse/Pressemitteilungen/2018/08/PD18_282_12511.html. Accessed January 4, 2019.

Destatis (2020). Foreigners: Länder, Reference Date, Country Groups – 12521, Wiesbaden 2020. Retrieved from https://www-genesis.destatis.de/genesis/online on March 16, 2020.

Eurostat (2014). Proportion of Immigrant Population in Total Resident Population by Resident Country, LFS 2014 ad Hoc Module. https://ec.europa.eu/eurostat/statistics-explained/index.php?title=File:Proportion_of_immigrant_population_in_total_resident_population_by_resident_country,_2014,_%25_T1.png. Accessed January 4, 2019.

Eurostat (2016a). At-risk-of-poverty Rate by Broad Group of Country of Birth, Population Aged 18 and Over) [ilc_li32], Labor Force Survey 2016. http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=ilc_li32&lang=en. Accessed February 9, 2018.

Eurostat (2016b). Population 16-64 by educational attainment level, sex, age and country of birth (%) [edat_lfs_9912], Labor Force Survey 2016. http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=edat_lfs_9912&lang=en. Accessed February 9, 2018.

Eurostat (2017a). At-risk-of-poverty Rate by NUTS Regions [ilc_li41], Labor Force Survey 2017. https://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=ilc_li41&lang=en. Accessed March 19, 2020.

Eurostat (2017b). Population by Educational Attainment Level, Sex, Age, Country of Birth and NUTS2 Regions (%) [edat_lfs_9917], Labor Force Survey 2017. https://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=edat_lfs_9917&lang=en. Accessed March 19, 2020.

Eurostat (2017c). Population by Sex, Age, Country of birth, Labour Status and NUTS2 Regions [lfst_r_lfsd2pwc], Labor Force Survey 2017. https://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=lfst_r_lfsd2pwc&lang=en. Accessed March 19, 2020.

INSEE (2016a). Insee-DGFIP-Cnaf-Cnav-CCMSA, Fichier Localis Social et Fiscal, 2016. https://www.insee.fr/fr/statistiques/4190004. Accessed March 24, 2020.

INSEE (2016b). Population Immigrée Selon les Principaux Pays de Naissance en 2016: Comparaisons Départementales, RP2016 Exploitation Principale.

INSEE (2016c). Recensement de la Population 2016 : fichier détail - Individus (localisation région). Microdata obtained through Réseau Quetelet.

INSEE (2017). Born in France to an immigrant parent: A diverse population that reflects the history of migratory flows. INSEE PREMIÉRE No 1634. https://www.insee.fr/en/statistiques/2856476. Accessed January 4, 2019.

Integrationsministerkonferenz (2017). Table A1, Integrationsmonitoring der Länder 2017. https://www.integrationsmonitoring-laender.de/tabellen. Accessed March 16, 2020.

ISTAT (2018a). Stranieri Residenti al 1 Gennaio. Retrieved from http://dati.istat.it/Index.aspx?DataSetCode=DCIS_POPSTRRES1 on March 10, 2020.

ISTAT (2018b). Stranieri Residenti al 1 Gennaio – Cittadinanza. Retrieved from http://dati.istat.it/Index.aspx?DataSetCode=DCIS_POPSTRCIT1 on March 10, 2020.

OECD (2015). Stock of Foreign-Born Population by Country of Birth 2015, International Migration Database. https://stats.oecd.org/Index.aspx?DataSetCode=MIG. Accessed January 27, 2018.

OECD (2017). Figure 2.3, Unemployment Rates by Place of Birth, 2007, 2011 and 2016, International Migration Outlook 2017. https://doi.org/10.1787/migr_outlook-2017-en.

ONS (2017). Population in the United Kingdom, Excluding Some Residents in Communal Establishments, by Country of Birth, January to December 2017, Annual Population Survey. https://www.ons.gov.uk/file?uri=%2fpeoplepopulationandcommunity%2fpopulationandmigration%2finternationalmigration%2fdatasets%2fpopulationoftheunitedkingdombycountryofbirthandnationality%2fjanuarytodecember2017/populationbycountryofbirthandnationalityjan17todec17.xls. Accessed March 16, 2020.

Pew Research Center (2012). Global Religious Futures, 2010. http://www.globalreligiousfutures.org/explorer. Accessed June 15, 2018.

Pew Research Center (2013). The Religious Affiliation of U.S. Immigrants: Majority Christian, Rising Share of Other Faiths. https://www.pewforum.org/2013/05/17/the-religious-affiliation-of-us-immigrants/. Accessed June 15, 2018.

Pew Research Center (2017a). As Mexican Share Declined, U.S. Unauthorized Immigrant Population Fell in 2015 Below Recession Level. http://pewrsr.ch/2qavmFK. Accessed June 15, 2018.

Pew Research Center (2017b). Statistical Portrait of the Foreign-Born Population in the United States, 2015. https://www.pewresearch.org/hispanic/2017/05/03/2015-statistical-information-on-immigrants-in-united-states/. Accessed June 15, 2018.

Pew Research Center (2018). Facts on U.S. Immigrants, 2016. http://www.pewhispanic.org/2018/09/14/facts-on-u-s-immigrants/#fb-key-charts-first-second-gen. Accessed January 4, 2019.

Statistics Sweden (2017a). Number of persons with foreign or Swedish background (detailed division), 2017. http://www.statistikdatabasen.scb.se/pxweb/en/ssd/START__BE__BE0101__BE0101Q/UtlSvBakgFin/table/tableViewLayout1/?rxid=9fe4f639-b220-410d-aa27-498fa05679c4. Accessed January 4, 2019.

Statistics Sweden (2017b). Population by Region, Region of Birth and Year, 2017. Data obtained directly from the producer.

United Nations (2017). Trends in International Migrant Stock: The 2017 Revision. (United Nations database, POP/DB/MIG/Stock/Rev.2017).

U.S. Census Bureau (2015). Educational Attainment by Nativity, Age 18 and Older, Current Population Survey 2015. Retrieved from https://www.census.gov/cps/data/cpstablecreator.html on June 29, 2018.

U.S. Census Bureau (2017a). Educational Attainment by Nativity, Age 16 to 64, Current Population Survey 2017. Retrieved from https://www.census.gov/cps/data/cpstablecreator.html on June 29, 2018.

U.S. Census Bureau (2017b). Place of Birth by Educational Attainment in the United States – B06009, 2013-2017 American Community Survey 5-year Estimates. Retrieved from https://data.census.gov/cedsci/table?q=B06009&tid=ACSDT5Y2017.B06009 on March 28, 2020.

U.S. Census Bureau (2017c). Place of Birth by Nativity and Citizenship Status – B05002, 2013-2017 American Community Survey 5-year Estimates. Retrieved from https://data.census.gov/cedsci/table?q=B05002&tid=ACSDT5Y2017.B05002 on March 28, 2020.

U.S. Census Bureau (2017d). Place of Birth for the Foreign-born Population in the United States – B05006, 2013-2017 American Community Survey 5-year Estimates. Retrieved from https://data.census.gov/cedsci/table?q=B05006&tid=ACSDT5Y2017.B05006 on March 28, 2020.

U.S. Census Bureau (2017e). Poverty Status in 2016 by Nativity, Age 18 and Older, Current Population Survey 2017. Retrieved from https://www.census.gov/cps/data/cpstablecreator.html on June 29, 2018.

U.S. Census Bureau (2017f). Selected Characteristics of the Native and Foreign-Born Population – S0501, 2013-2017 American Community Survey 5-year Estimates. Retrieved from https://data.census.gov/cedsci/table?q=S0501&tid=ACSDT5Y2017.B06009 on March 28, 2020.