README for: "Since You're So Rich, You Must Be Really Smart": Talent, Rent Sharing, and the Finance Wage Premium

Data availability and provenance

The main data used in our paper "Since You're So Rich, You Must Be Really Smart": Talent, Rent Sharing, and the Finance Wage Premium is from confidential register records provided by Statistics Sweden (SCB). The sources of specific variables are explained in our paper and summarized further below.

There is a standardized procedure to apply for data access with SCB. An application includes a detailed research plan, a list of variables from the different registers, and an approval of the ethical review board. The official instructions can be found at https://www.scb.se/en/services/guidance-for-researchers-and-universities/. The agency's microdata unit can be contacted at mikrodata@scb.se.

SCB performs a judicial clearance of the order and quotes a price. Once the data has been processed, it can be accessed via Statistics Sweden's access servers (the system is called Microdata Online Access – MONA). MONA is currently only accessible from EU countries or countries meeting the GDPR requirements of the EU.

The replication scripts, including detailed explanations of data construction, etc. are available at https://doi.org/10.5281/zenodo.6929238.

Source data list

LISA (SCB administrative data): Statistics Sweden's "Longitudinal Integration Database for Health Insurance and Labour Market Studies" – LISA. We use data from 1990 to 2017. Information about the data and variables can be found at https://www.scb.se/en_/Services/Guidance-for-researchers-and-universities/SCB-Data/Longitudinal-integration-database-for-health-insurance-and-labour-market-studies-LISA-by-Swedish-acronym/.

LINDA (SCB administrative data): Statistics Sweden's "Longitudinal Individual Data Base" – LINDA. We use data from 1978 to 1990. Information about the data and variables can be found at https://www.scb.se/hitta-statistik/statistik-efter-amne/hushallens-ekonomi/inkomster-och-inkomstfordelning/longitudinell-individdatabas-linda/produktrelaterat/Fordjupad-information/mikrodata-for-longitudinell-individdatabas-linda/.

Krigsarkivet and Rekryteringsmyndigheten (SCB administrative data): Data from Military Archives and Swedish Defence Recruitment Agency. We use this for talent measures of cohorts enlisted from 1969 to 1983 and 1983 to 2010, respectively. Linked to the other data within MONA via the individual's unique person number. Documentation of this data can be obtained directly from the respective institutions. The data is also described in detail in Lindqvist and Vestman (2011).

High-School Register (SCB administrative data): Information about this data can be found at https://www.scb.se/vara-tjanster/bestall-data-och-statistik/bestalla-mikrodata/vilka-mikrodata-finns/individregister/ (see under "Utbildning").

Multi-Generation Register (SCB administrative data): We use data on biological parent-child links from Statistics Sweden's multi-generation register. Linked to the other data within MONA via the individual's unique person number. Information about this register can be found at https://www.scb.se/vara-tjanster/bestall-data-och-statistik/bestalla-mikrodata/vilka-mikrodata-finns/individregister/flergenerationsregistret/.

Swedish and US Industry Accounts (public data): We use this data from Statistics Sweden (SCB) and US Bureau of Economic Analysis (BEA) to measure relative employment and value added in the Swedish financial sector. We also use BEA data and follow Philippon and Reshef (2012) to extend their US relative wage series in finance to 2007–2018. The series up to 2006 was provided to us by Ariell Reshef directly. The Swedish industry accounts can be accessed at https://www.scb.se/en/finding-statistics/. The US industry accounts can be accessed at https://www.bea.gov/data/.

Serrano and UC (proprietary data): The Serrano dataset provides accounting data for limited liability firms in the nonfinancial private sector (Aktiebolagets (ABs)). ABs are required to file annual financial statements (balance sheet and income statement) with the Swedish Companies Registration Office (Bolagsverket). (Electronic) copies of those statements can be obtained from Bolagsverket. Bisnode AB (now owned by Dun & Bradstreet), a commercial vendor, has collected and processed that data for all ABs from 1998 onward in the Serrano database. The Serrano database also contains information on business groups, allowing the link of different subsidiaries to the corresponding business group. We use Serrano data from 1998 onward. Before 1998, we use corresponding data collected and sold by credit bureau Upplysningscentralen AB (UC). We process the data ourselves following Serrano's procedures. Serrano and UC data are linked to the other data within MONA via the firms' unique organization numbers. More information about Serrano and UC can be obtained directly from the respective institutions.

Finansinspektionen and Finansiella Företag (proprietary data): Data on financial sector firms' annual accounts from the Swedish financial supervisory authority – Finansinspektionen – and available from 1996 onward. Before 1996, we hand-collect data from financial companies' yearbooks – Finansiella Företag – published in print by Statistics Sweden. Finansinspektionen and Finansiella Företag are linked to the other data within MONA via the firm's unique organization number. Information about these data can be obtained directly from the respective institutions.

Description of intermediate and analysis datasets

workdata LISAnew.dta

Population definition:

- All individuals in LISA (i.e., all residents of Sweden from age 16 onward) who work as non-selfemployed in the non-primary private sector and earn above the basic taxation value (prisbasbelopp) in the respective calendar year.

Panel structure:

- Annual panel data during 1990–2017.

Construction:

- Start with LISA and link with military test scores from Krigsarkivet / Rekryteringsmyndigheten and high school grades from High-School Register. Also link with business group information from Serrano.
- Drop observations with missings in any of: sex, potential experience, broad industry sector. Also drop observations when declared labor income (deklon) below the prisbasbelopp, when self-employed, or when industry of employment is primary or public sector.

network prep.dta

Population definition:

- All individuals in LISA (i.e., all residents of Sweden from age 16 onward).

Panel structure:

- Annual panel data during 1990–2017.

Construction:

- Start with LISA and link with multi-generational register.
- For each municipality and each year, calculate share of workers employed in different sectors (broad sector level).
- For each municipality and each year, calculate share of individuals moving to a different municipality.
- Obtain sector of employment (broad sector level) of biological father in every year.
- Obtain municipality (and state) information of residence at age 16.

linda_prep.dta

Population definition:

- All individuals in LINDA in the private sector.

Panel structure:

- Annual panel data during 1978–1991.

Construction:

- Processed similar to main dataset LISA.

relwage US.dta

Population definition:

- U.S. relative wages in the financial sector.

Panel structure:

- Annual time series during 1978–2018.

Construction:

- Period 1978–2006 directly obtained from Ariell Reshef.
- For the remainder of the period, processed industry data from the Bureau of Economic Analysis (BEA) following Philippon and Reshef (2012).

bankperform3 workdata.dta (intermediate dataset)

Population definition:

- Financial firms' accounts where those are available.

Panel structure:

- Annual panel data during 1991–2017.

Construction:

- Append Finansinspektionen raw data with Finansiella Företag for the years before 1996.
- Apply variable definitions for value added, total assets, operating profits, and equity. Interpolate missing values when non-missing values available in a prior and a subsequent year.

ucSer_workdataNew.dta (intermediate dataset)

Population definition:

- Non-financial firms' accounts where those are available.

Panel structure:

- Annual panel data during 1991–2017.

Construction:

- Append Serrano data with UC for the years before 1998.
- Apply variable definitions for value added, total assets, operating profits, sales, equity, depreciation, and personnel costs.

LISA firmaccounts.dta

Population definition:

- LISA data matched with financial and non-financial firms' accounts.

Panel structure:

- Annual panel data during 1991–2017.

Construction:

- Start with workdata_LISAnew.dta and link with ucSer_workdataNew.dta and bankperform3_workdata.dta according to the individual's employer's unique organization number.

Computational details

The code for the analysis of the administrative data was run on Statistics Sweden's secure server MONA, which is a virtual server in VMware with 40 threads, 500 GB of RAM, 500 GB of fast storage.

The industry accounts data for Sweden and the US were last processed on an Intel(R) Core(TM) i7-8565U CPU @ 1.80GHz 1.99 GHz Laptop with 16GB of ram and Windows 11.

The software Stata 17MP was used in both cases.

References

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Philippon, Thomas, and Ariell Reshef. "Wages and human capital in the US finance industry: 1909–2006." The Quarterly Journal of Economics 127.4 (2012): 1551-1609.

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UC (2022). "Annual Reports 1989-1998 [database]." Upplysningscentralen (UC), accessed (2022).

U.S. Bureau of Economic Analysis. "*National Income and Product Accounts*." https://apps.bea.gov/iTable/iTable.cfm?reqid=19&step=2&isuri=1&1921=survey (accessed 23 November 2020).

Do-files	Input	Output
Figure_1.do	Figure 1 - Finance share of GDP and labor -	Figure 1xlsx sheet "Graphs"
	replication file.xlsx sheets "Sweden" and "US", Figure 1.do	Fig1A_swe_va_empl.pdf, Fig1B usa va empl.pdf
	rigure_1.do	rigib_usa_va_empi.pui
Figure_2A.do	linda_prep.dta	Fig2A_relwage_LisaLindaUS.pdf
	workdata_LISAnew.dta	
	relwage_US.dta	
Figure_2BC.do Figure 3.do	workdata_LISAnew.dta	Fig2B_relwage_Qreg.pdf
	workdata LISAnew.dta	Fig2C relwage Qreg99.pdf Fig3 reltalent.pdf
rigure_5.do	workdata_LisAnew.dta	Fig3_reitalent.pdf
Figure_4.do	workdata_LISAnew.dta	Fig4A_distr_ratio_cog.pdf
	_	Fig4B_distr_ratio_noncog.pdf
Figure_5.do	workdata_LISAnew.dta	Fig5A_talentcontrol.pdf
		Fig5B_FEcontrol.pdf
		Fig5C_educcontrol.pdf
		Fig5D_interactcontrol.pdf
Figure_6.do	workdata_LISAnew.dta	Fig6A_deklon_ratio_cog.pdf
		Fig6B deklon ratio noncog.pdf
Figure_7.do	LISA_firmaccounts.dta	Fig7_rel_VA_wage_perworker.pdf
		Figure 7.log
Figure_8A.do	workdata_LISAnew.dta	Fig8A_entry_young_old.pdf
Figure_8B.do	workdata_LISAnew.dta	Fig8B_wagegrowth_3045.pdf
Table_1.do	workdata LISAnew.dta	Table_1.log (lines 84-100, 121-
	_	137, 160-176, 199-257)
Table_2.do	workdata_LISAnew.dta	Table_2.log (lines 77-88, 114-125, 151-162)
Table_3.do	workdata_LISAnew.dta	Table 3.log (lines 415-630),
	_	Table_3.xlsx
Table_4.do	LISA_firmaccounts.dta	Table_4.log (lines 205-217)
N/A	Values copied into excel from Table_4.log (lines 95-	Table_5.xlsx
	199) and Figure_7.log (lines 118-140)	
Table_6.do	workdata_LISAnew.dta	Table_6.log (lines 160-192)
	network_prep.dta	