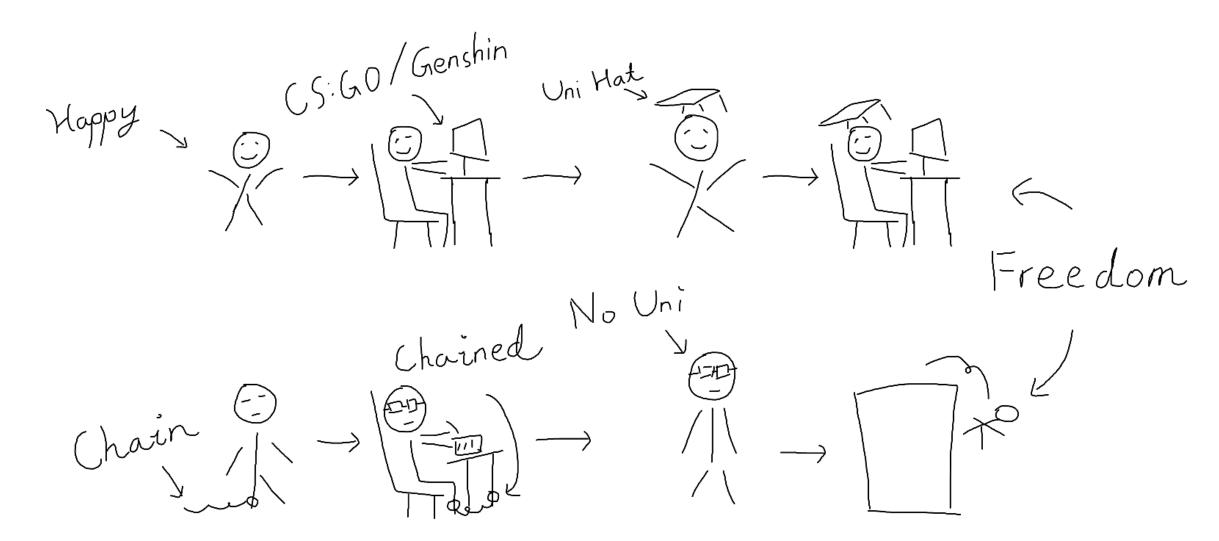
Educational Inequality

Step by Step

Know the Difference





Interesting fact: One of my classmates jumped and died in this July.

Know the why

$Enrollment\ rate = \frac{number\ of\ winner}{number\ of\ dreamer} \times 100\%$





Uni Winner: 631,267 Uni Dreamer: 673,844

Enrollment rate: 94%

Source (2019): 高等学校卒業者数・大学(学部) 志願者数・大学(学部) 入学定員の推移, 文部科学省





Uni Winner: 4,679,358 Uni Dreamer: 12,910,000

Enrollment rate: 36%



China 36% Ukraine 54%

Country

Russia

Thailand

Japan

Brazil

South Korea

Finland

Italy

Indonisia

Malaysia

India

Enrollment rate

150%

112%

94%

73%

71%

66%

62%

54%

46%

41%

Source 1 (2023): <u>今年全国高考报名1291万人</u>, 中华人民共和国教育部 Source 2 (2023): 各级各类学历教育学生情况, 中华人民共和国教育部



"Why >100%?": Because there are many foreign enrollments. i.e. >14% of the Tajik students study in a Russian university.



Interesting fact: There is only one university in Mauritania (a country in Africa), while its population is over 4 million.

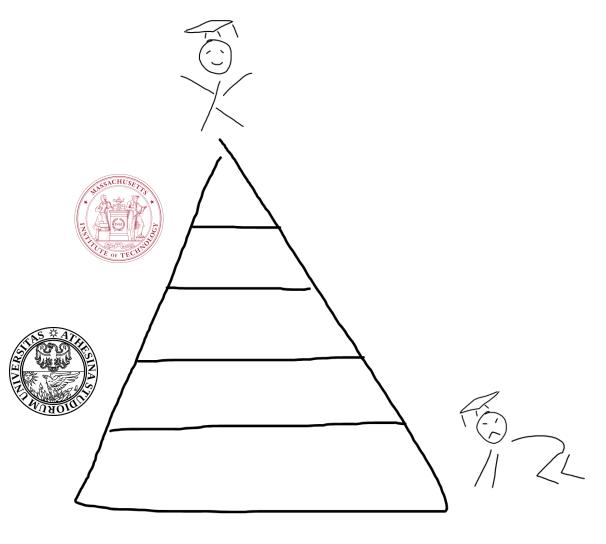
... And more ...

We know that

50 ...







We can build a paramid!

Meet the Paramid

This pyramid is built based on "Spend per Student" and "Student per Teacher"

		1					
Country	University	Year	€/Student	Student/Ac.Stuff	Total Income, €	Ac.Staff	Student
IT	Sant'Anna School of Advanced Studies of Pisa (SSSA)	2022	93533	2.1	€ 76,603,690	393	819
IT	Scuola Normale Superiore (SNS)	2022	99722	2.9	€ 64,021,570	218	642
IT	University of Padova (UNIPD)	2022	56128	5.6	€ 715,010,067	2268	12739
IT	Bocconi University	2023	19269	21.9	€ 291,098,453	689	15107
IT	University of Genova	2022	13685	19.4	€ 360,460,467	1355	26339
IT	University of Trento (UNITN)	2023	12764	19.9	€ 209,455,095	824	16410
IT	University of Modena and Reggio Emilia (UNIMORE)	2022	12598	21.3	€ 253,060,701	944	20087
IT	University of Rome Tor Vergata	2022	11271	22.4	€ 330,933,638	1310	29362
IT	University of Milan (UNIMI)	2022	10721	23.6	€ 640,822,754	2538	59773
IT	Polytechnic University of Milan	2022	12152	29.5	€ 582,806,128	1627	47959
IT	University of Pavia (UNIPV)	2021	10452	26.8	€ 251,080,695	896	24023
IT	University of Trieste (UNITS)	2022	10063	26.7	€ 173,093,242	644	17201
IT	University of Naples Federico II (UNINA)	2022	9262	25.7	€ 681,246,368	2867	73553
IT	University of Florence (UNIFI)	2022	9009	28.3	€ 459,478,287	1800	51000
IT	University of Bologna (UNIBO)	2022	9072	28.7	€ 879,831,965	3382	96984
IT	University of Milano-Bicocca (UNIMIB)	2022	9378	36.5	€ 307,976,956	900	32841
IT	Polytechnic University of Turin	2021	7460	32.6	€ 296,151,444	1217	39700
IT	University of Pisa (UNIPI)	2023	7712	34.6	€ 405,512,751	1518	52583
IT	University of Parma (UNIPR)	2022	7413	33.3	€ 237,228,536	960	32000
IT	University of Turin (UNITO)	2022	7369	34.1	€ 596,878,425	2377	81000
IT	Sapienza University of Rome	2022	7207	34.2	€ 880,317,965	3576	122143
IT	University of Roma Tre	2021	6194	36.4	€ 201,622,056	893	32549

By the way, in France they have some unis with the S:T ratio more than 100:1:

	,							
Country		University	Year	€/Student	Student/Ac.Stuff	Total Income, €	Ac.Staff	Student
FR		University of Nantes	2020	9635	164.4	€ 356,500,000	225	37000

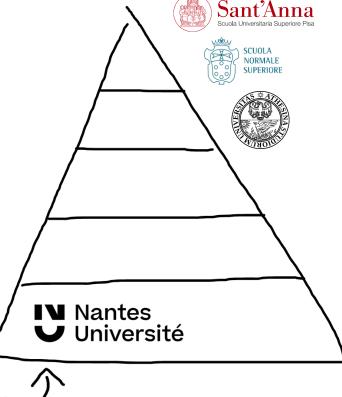


Complete list: https://github.com/clareClaymore2001/EU.UniRanks



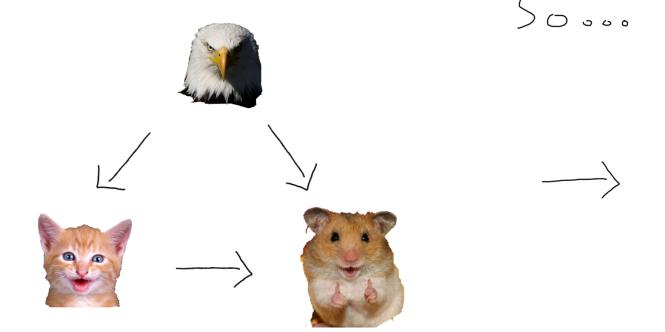
Interesting fact: In a ranch, the "Cow per Worker" ratio is around 100.

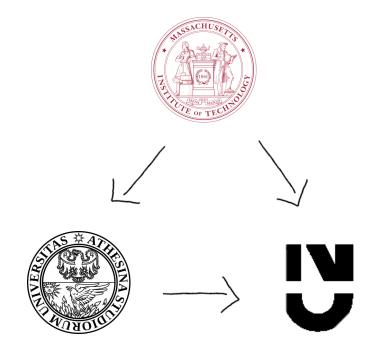




Improve the Pyramid

Pyramid based on foodchain





A multi-dimensional pyramid!

Idea

The construction principle of the pyramid

We know:

All the universities tend to hire the PhD who graduated from a better university as their professor

So we know:

An university which only receives PhD from other universities but not produces PhD to other universities is at a lower position, so as the contrary

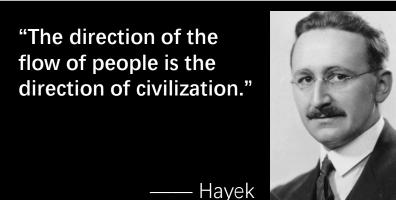
And then we know:

Based on the "PhD -> Position" hiring flow,

we can build the pyramid!



More over: The same principle for "Bachelor -> Master" flow, all the bachelor students tend to apply for a better university to study their master



Article: Quantifying hierarchy and dynamics in US faculty hiring and retention

DOI: 10.1038/s41586-022-05222-x

nature

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nature > articles > article

Article Open access Published: 21 September 2022

Quantifying hierarchy and dynamics in US faculty hiring and retention

K. Hunter Wapman , Sam Zhang, Aaron Clauset & Daniel B. Larremore

Nature 610, 120–127 (2022) | Cite this article

168k Accesses | 97 Citations | 1180 Altmetric | Metrics

Database

Step by step tutorial to get a clear hiring flow

Step 1: Meet ORCID

Choose the database from ORCID, which includes profiles from more than 14m scholars | See: Wikipedia

Step 2: Obtain a clear dataset

2.1: Extract the data | See: personal_data_all.csv

2.2: Using the database from ROR to pair the unis and use some keywords to pair their titles (we know that many people didn't fill their profiles accurately)

| See: personal_data_raw_paired.csv, personal_data_raw_paired.csv | Keyworks: ROR_data.csv, role_title.csv

Step 3: Get the flows

3.1: Now we sort the experience of every person by time, and we select the ones who were studying PhD in an university with a professor position in an university later on

3.2: Count for all the flows | See: organization_flow_all.csv

Now we have a clear hiring flow

Count OriDisOrgID DesDisOrgID OriCou DesCou OriCity DesCity OriOrgName DesOrgName OriOrgType DesOrgType 4394 https://ror.org/00pjdza24 https://ror.org/00pjdza24 US US Oakland Oakland University of California System University of California System education education 4326 https://ror.org/04cw6st05 https://ror.org/04cw6st05 GB GB London London University of London University of London education education 2953 https://ror.org/034t30j35 https://ror.org/034t30i35 CN CN Beiiina Chinese Academy of Sciences Chinese Academy of Sciences Beijing government aovernment 2546 https://ror.org/05sqd3t97 https://ror.org/05sqd3t97 US US Tallahassee Tallahassee State University System of Florida State University System of Florida education education 2289 https://ror.org/057zh3v96 https://ror.org/057zh3v96 JP JP Tokyo Tokyo The University of Tokyo The University of Tokyo education education US US Columbus 2159 https://ror.org/0561zqn56 https://ror.org/0561zqn56 Columbus University System of Ohio University System of Ohio education education KR 2129 https://ror.org/04h9pn542 https://ror.org/04h9pn542 KR Seoul Seoul Seoul National University Seoul National University education education 1952 https://ror.org/01gek1696 https://ror.org/01gek1696 US US Austin Austin The University of Texas System The University of Texas System education education 1902 https://ror.org/035b05819 https://ror.org/035b05819 DK DK Copenhagen Copenhagen University of Copenhagen University of Copenhagen education education 1867 https://ror.org/0566a8c54 https://ror.org/0566a8c54 US US Chapel Hill Chapel Hill University of North Carolina System University of North Carolina System education education 1811 https://ror.org/05f950310 https://ror.org/05f950310 BE BE Leuven KU Leuven KU Leuven education Leuven education AU ΑU Melbourne University of Melbourne 1806 https://ror.org/01ej9dk98 https://ror.org/01ej9dk98 Melbourne University of Melbourne education education JP 1792 https://ror.org/02kpegv85 https://ror.org/02kpeqv85 Kyoto Kyoto **Kyoto University Kyoto University** education education 1717 https://ror.org/013meh722 GB GB University of Cambridge https://ror.org/013meh722 Cambridge Cambridge University of Cambridge education education

And now, something hardcore

Original database Link:

https://orcid.figshare.com/articles/dataset/ORCID Public Data File 2023/24204912



Opensource code Link:

https://github.com/clareClaymore2001/ORCID.DataExplained



I use Python by the way

Clear dataset Link:

https://www.kaggle.com/datasets/leeantoyf/orcid-hiring-flow

ORCID Hiring Flow

Add a subtitle Edit

Article: A physical model for efficient ranking in networks

DOI: 10.1126/sciadv.aar8260

Science Advances Curren

HOME A COICHOE ADVANCES A VOL 4 NO 7 A RUVERAL MODEL FOR EFFICIENT BANKING IN NETWORKS

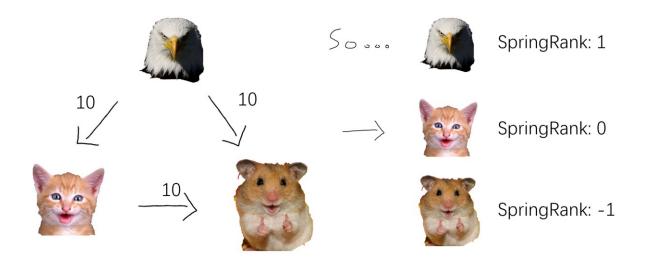
RESEARCH ARTICLE | NETWORK SCIENCE

A physical model for efficient ranking in networks

SpringRank in Italy

OrgSpring +			OrgCity ~		OrgType	
	https://ror.org/03aydme https://ror.org/0031wrj9		Florence	Scuola Normale Superiore European University Institute	education education	487 997
	https://ror.org/01tevnk		Siena	University of Siena	education	472
	https://ror.org/004fze38		Trieste	Scuola Internazionale Superiore di Studi Avanzati	education	672
	https://ror.org/025602r8		Pisa	Sant'Anna School of Advanced Studies	education	421
	https://ror.org/035gh3a			IMT School for Advanced Studies Lucca	education	104
	https://ror.org/01e6ksd	_	Venice	Università luav di Venezia	education	98
	https://ror.org/05290cv		Naples	University of Naples Federico II	education	927
	https://ror.org/03ad39j1		Pisa	University of Pisa	education	1206
	https://ror.org/01q9h8k			University of Naples - L'Orientale	education	126
1.121350541	https://ror.org/02be6w2	209 IT	Rome	Sapienza University of Rome	education	1626
1.110604506	https://ror.org/0005w8d	169 IT	Camerino	Università di Camerino	education	99
1.068214885	https://ror.org/03c44v4i	65 IT	Bari	Polytechnic University of Bari	education	223
1.063977322	https://ror.org/00bgk95	08 IT	Turin	Polytechnic University of Turin	education	1364
1.061616153	https://ror.org/01nffqt8	8 IT	Milan	Politecnico di Milano	education	2646
1.046511218	https://ror.org/04jr1s76	3 IT	Florence	University of Florence	education	973
1.042489899	https://ror.org/05ctdxz1	.9 IT	Messina	University of Messina	education	199
1.039084059	https://ror.org/0107c5v	14 IT	Genoa	University of Genoa	education	674
1.034646213	https://ror.org/02p77k6	26 IT	Rome	University of Rome Tor Vergata	education	1059
1.004533799	https://ror.org/01gmqr2	98 IT	Milan	Vita-Salute San Raffaele University	education	95
0.994694008	https://ror.org/00wjc7c4	18 IT	Milan	University of Milan	education	1045
0.990486268	https://ror.org/02kqnpp	86 IT	Caserta	University of Campania "Luigi Vanvitelli"	education	119
0.980609178	https://ror.org/01ynf489	91 IT	Milan	University of Milano-Bicocca	education	1082
).975454897	https://ror.org/00s6t1f8	1 IT	Pavia	University of Pavia	education	725
0.960850472	https://ror.org/02n742c	10 IT	Trieste	University of Trieste	education	476
0.954129737	https://ror.org/01111rn3	36 IT	Bologna	University of Bologna	education	2055
0.948031375	https://ror.org/0192m2l	<53 IT	Fisciano	University of Salerno	education	395
).941910737	https://ror.org/00240q9	80 IT	Padua	University of Padua	education	1420
).937884295	https://ror.org/05ht0mh	31 IT	Udine	University of Udine	education	258
).929769642	https://ror.org/05crjpb2	7 IT	Milan	Bocconi University	education	173
).919934235	https://ror.org/041zkgm	14 IT	Ferrara	University of Ferrara	education	401
	https://ror.org/00x27da		Perugia	University of Perugia	education	413
	https://ror.org/048tbm3			University of Turin	education	887
0.90465766	https://ror.org/00qjgza0)5 IT	Chieti	University of Chieti-Pescara	education	142
	https://ror.org/01j9p1r2		L'Aquila	University of L'Aquila	education	239
	https://ror.org/05trd4x2		Trento	University of Trento	education	823
	https://ror.org/02k7wn1			University of Parma	education	440
	https://ror.org/044k9ta0		Palermo	University of Palermo	education	342
	https://ror.org/03a64bh			University of Catania	education	399
	https://ror.org/03fc1k06		Lecce	University of Salento	education	172
	https://ror.org/003109y		Cagliari	University of Cagliari	education	319
	https://ror.org/02rc97e9		Rende	University of Calabria	education	291
	https://ror.org/02mbd5		-	University of Bergamo	education	115
	https://ror.org/05vf0dg2		Rome	Roma Tre University	education	243
	https://ror.org/027ynra		Bari	University of Bari Aldo Moro	education	297
	https://ror.org/00s4092		Varese	University of Insubria	education	160
	https://ror.org/02d4c4y		Modena	University of Modena and Reggio Emilia	education	266
	https://ror.org/02q2d26			University of Brescia	education	160
	https://ror.org/0530bdk		Catanzaro	Magna Graecia University	education	96
	https://ror.org/01q8b6q			Libera Università Internazionale degli Studi Social		123
	https://ror.org/03h7r5v0		Milan	Università Cattolica del Sacro Cuore	education	384
	https://ror.org/04yzxz56		Venice	Ca' Foscari University of Venice	education	165
0.607676622					education	486
0.607676622 0.60044391	https://ror.org/039bp8j4		Verona	University of Verona		
0.607676622 0.60044391 0.377090338		91 IT	Verona Sassari Bolzano	University of Verona University of Sassari Free University of Bozen-Bolzano	education	127

SpringRank: to calculate the relative position in the pyramid



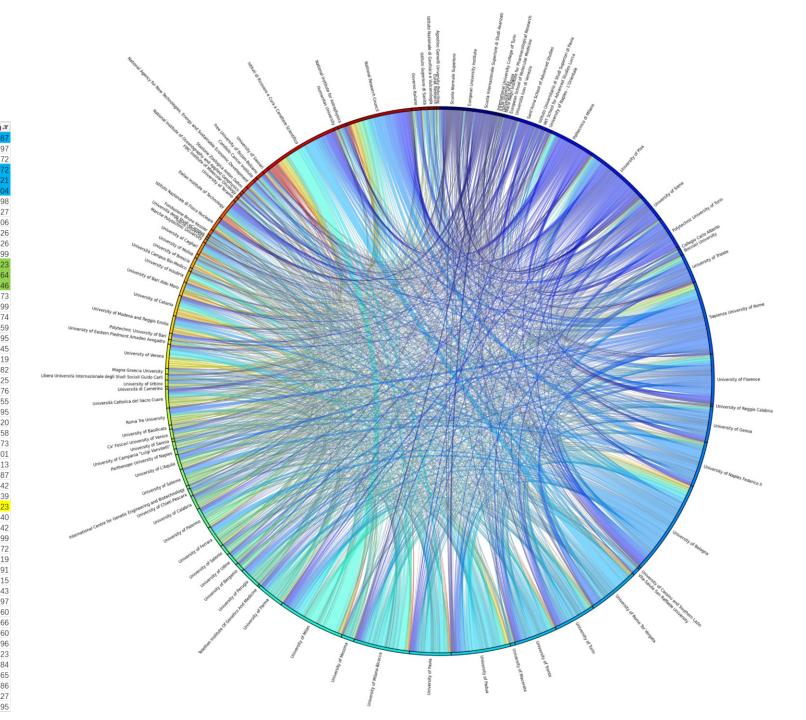
Now we can get the SpringRank based on the hiring flow

OrgSpringRank OrgID	OrgCou	OrgCity	OrgName	OrgType	Count
0.738026181 https://ror.org/00pjdza24	US	Oakland	University of California System	education	34670
0.946990224 https://ror.org/04cw6st05	GB	London	University of London	education	24932
0.950162053 https://ror.org/034t30j35	CN	Beijing	Chinese Academy of Sciences	government	15531
0.679572097 https://ror.org/05sqd3t97	US	Tallahassee	State University System of Florida	education	14899
0.614629855 https://ror.org/01gek1696	US	Austin	The University of Texas System	education	14572
0.715365969 https://ror.org/0561zqn56	US	Columbus	University System of Ohio	education	14063
0.995074155 https://ror.org/013meh722	GB	Cambridge	University of Cambridge	education	13160
0.607585952 https://ror.org/0566a8c54	US	Chapel Hill	University of North Carolina System	education	11578
0.821525124 https://ror.org/03ydkyb10	US	Madison	University of Wisconsin System	education	10122
0.899516976 https://ror.org/05e94g991	US	Urbana	University of Illinois System	education	9652
1.121707311 https://ror.org/057zh3y96	JP	Tokyo	The University of Tokyo	education	9651
0.731637676 https://ror.org/017wcm924	US	Atlanta	University System of Georgia	education	9225
0.81801534 https://ror.org/00f54p054	US	Stanford	Stanford University	education	8791
0.939849555 https://ror.org/027m9bs27	GB	Manchester	University of Manchester	education	8439
0.838406387 https://ror.org/03dbr7087	CA	Toronto	University of Toronto	education	8313

Visualization

SpringRank in Italy

OrgSpring → OrgID		OrgCity ~		OrgType	
1.449340202 https://ror.org/03a	_		Scuola Normale Superiore	education	48
1.307399286 https://ror.org/003		Florence	European University Institute	education	99
1.290831965 https://ror.org/01t		Siena	University of Siena	education	47
1.272933289 https://ror.org/004		Trieste	Scuola Internazionale Superiore di Studi Avanzati	education	67
1.220368889 https://ror.org/025		Pisa	Sant'Anna School of Advanced Studies	education	42
1.19335893 https://ror.org/035			IMT School for Advanced Studies Lucca	education	10
1.177600814 https://ror.org/01e		Venice	Università luav di Venezia	education	9
1.167061132 https://ror.org/052		Naples	University of Naples Federico II	education	92
1.126373268 https://ror.org/03a		Pisa	University of Pisa	education	120
1.125997094 https://ror.org/01d			University of Naples - L'Orientale	education	12
1.121350541 https://ror.org/02b	be6w209 IT	Rome	Sapienza University of Rome	education	162
1.110604506 https://ror.org/000	05w8d69 IT	Camerino	Università di Camerino	education	9
1.068214885 https://ror.org/03d	c44v465 IT	Bari	Polytechnic University of Bari	education	22
1.063977322 https://ror.org/00b	bgk9508 IT	Turin	Polytechnic University of Turin	education	136
1.061616153 https://ror.org/01r	nffqt88 IT	Milan	Politecnico di Milano	education	264
1.046511218 https://ror.org/04j	r1s763 IT	Florence	University of Florence	education	97
1.042489899 https://ror.org/050	ctdxz19 IT	Messina	University of Messina	education	19
1.039084059 https://ror.org/010	07c5v14 IT	Genoa	University of Genoa	education	67
1.034646213 https://ror.org/02p		Rome	University of Rome Tor Vergata	education	105
1.004533799 https://ror.org/01g		Milan	Vita-Salute San Raffaele University	education	9
0.994694008 https://ror.org/00v		Milan	University of Milan	education	104
0.990486268 https://ror.org/02l			University of Campania "Luigi Vanvitelli"	education	11
0.980609178 https://ror.org/01y		Milan	University of Milano-Bicocca	education	108
0.975454897 https://ror.org/00s		Pavia	University of Pavia	education	72
0.960850472 https://ror.org/02r		Trieste	University of Trieste	education	47
0.954129737 https://ror.org/011		Bologna	University of Bologna	education	205
0.948031375 https://ror.org/019		-	University of Salerno	education	39
0.941910737 https://ror.org/002		Padua	University of Padua	education	142
0.937884295 https://ror.org/05h			University of Udine	education	25
		Milan	,	education	17
0.929769642 https://ror.org/050			Bocconi University	education	40
0.919934235 https://ror.org/041			University of Ferrara	education	
0.918586172 https://ror.org/00x		Perugia	University of Perugia		41
0.907853038 https://ror.org/048			University of Turin	education	88
0.90465766 https://ror.org/00d		Chieti	University of Chieti-Pescara	education	14
0.886852102 https://ror.org/01j		L'Aquila	University of L'Aquila	education	23
0.884122325 https://ror.org/05t		Trento	University of Trento	education	82
0.883001411 https://ror.org/02l			University of Parma	education	44
0.852377463 https://ror.org/044		Palermo	University of Palermo	education	34
0.837986366 https://ror.org/03a			University of Catania	education	39
0.823374781 https://ror.org/03f		Lecce	University of Salento	education	17
0.821992538 https://ror.org/003		Cagliari	University of Cagliari	education	31
0.812765899 https://ror.org/02r		Rende	University of Calabria	education	29
0.789190759 https://ror.org/02r		Bergamo	University of Bergamo	education	11
0.783750223 https://ror.org/05\	vf0dg29 IT	Rome	Roma Tre University	education	24
0.747600209 https://ror.org/027	7ynra39 IT	Bari	University of Bari Aldo Moro	education	29
0.730110997 https://ror.org/00s	s409261 IT	Varese	University of Insubria	education	16
0.684078093 https://ror.org/02d	d4c4y02 IT	Modena	University of Modena and Reggio Emilia	education	26
0.681074093 https://ror.org/02d	q2d2610 IT	Brescia	University of Brescia	education	16
0.637075379 https://ror.org/053		Catanzaro	Magna Graecia University	education	9
0.634578665 https://ror.org/01d			Libera Università Internazionale degli Studi Sociali		12
0.625940032 https://ror.org/03h		Milan	Università Cattolica del Sacro Cuore	education	38
0.607676622 https://ror.org/04y		Venice	Ca' Foscari University of Venice	education	16
0.60044391 https://ror.org/039		Verona	University of Verona	education	48
0.377090338 https://ror.org/018	. ,	Sassari	University of Sassari	education	12
0.275812348 https://ror.org/012		Bolzano	Free University of Bozen-Bolzano	education	19



One last step

Step by step to calculate the inequality in a country

Step 1: Calculate the adjusted count and the adjusted SpringRank

Simply just the sum of the flow count and the sum of the SpringRank of all the universities in a country

Step 2: Calculate the adjusted average in every country

$$Adjusted \ Average = rac{Adjusted \ SpringRank}{Adjusted \ Count}$$

Step 3: Calculate the adjusted variance in every country

In every university
$$Adjusted\ Variance = rac{\sum (Unadjusted\ Count imes (Unadjusted\ SpringRank - Adjusted\ Average)^2)}{Adjusted\ Count}$$

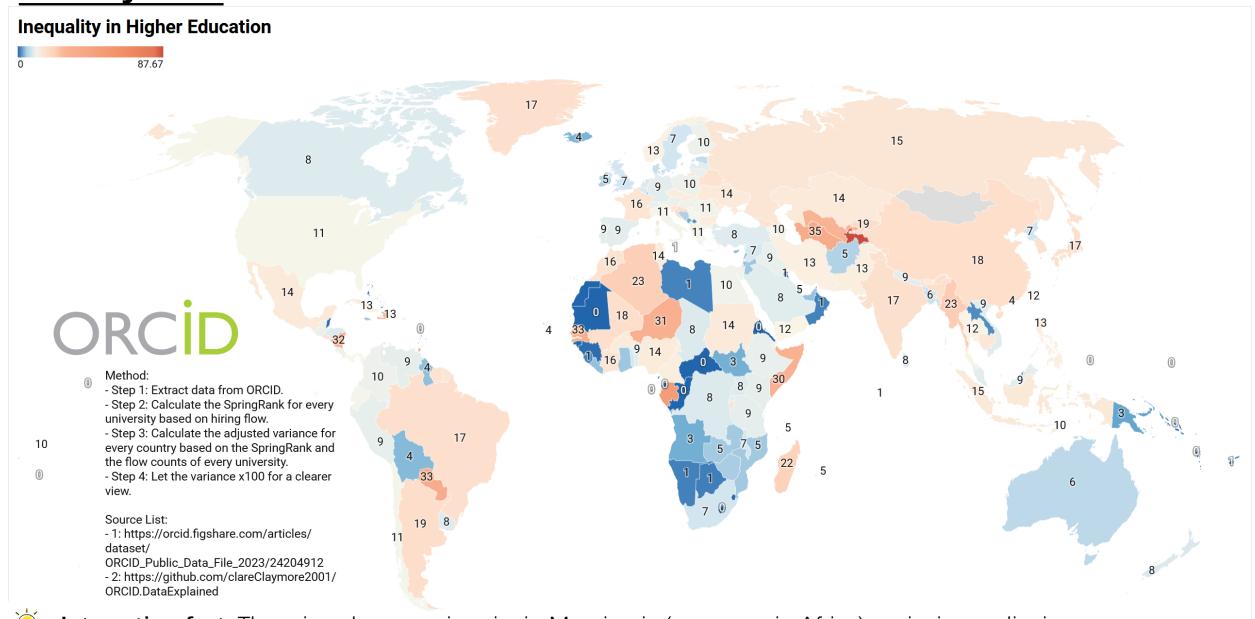
Step 4: Times the variance 100 to get a better view

Benefit of the adjusted variance

We know that different university has different sizes, so adjusted variance is better than unadjusted variance

Country	SpringRankAdjusted	CountAdjusted	AverageAdjusted	VarianceAdjusted
AT	6974.32967	11297	0.617361217	9.832069508
AU	45088.9728	70903	0.635924754	5.742801929
BD	-2963.75783	10570	-0.280393361	6.330579985
BE	12885.55196	16100	0.800344842	7.682975085
BR	32558.32468	58248	0.558960388	17.11398481
CA	44297.39237	73971	0.598848094	7.749851915
CH	14770.22457	23461	0.629565004	9.398283303
CN	60412.4816	149208	0.404887684	18.04297129
DE	41970.34554	58749	0.71440102	8.679324446
DK	10334.49975	19512	0.529648409	6.045662777
ES	73926.66305	77303	0.956323339	8.659951845
FI	10539.97014	15701	0.67129292	10.23457294
FR	36691.847	39488	0.929189804	15.55202969
GB	157848.7506	209167	0.754654179	6.643162391
GR	5654.049936	12820	0.441033536	10.75634304
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IE	7235.182877	13122	0.551378058	5.174783316
IL	5845.736245	9776	0.59796811	9.221868617
IN	83433.79004	113105	0.737666682	17.04940423
IR	11799.45355	34512	0.341894227	13.17630485
IT	32727.77261	37073	0.882792669	11.06319026
JP	51017.50501	70657	0.722044596	16.53891123
KR	19916.64147	43503	0.457822253	16.41135407
MX	3643.454201	11292	0.322658006	14.30759824
MY	8010.579944	17026	0.47049101	8.694011102
NG	-2234.2306	17378	-0.128566613	14.09769863
NL	26770.09632	31299	0.855301969	7.59262038
NO	3208.991873	10915	0.293998339	12.82812362
NZ	6798.299387	9968	0.682012378	7.50929953
PK	-554.4364237	13144	-0.042181712	13.47744186
PL	14077.38671	19943	0.705881097	10.19026264
PT	8627.100564	16216	0.532011628	8.759872227
RU	15090.01065	17149	0.879935311	15.25601103
SE	15532.68237	25911	0.599462868	6.659560325
SG	5021.347431	12223	0.410811375	10.19837305
TR	11328.35246	40413	0.280314564	8.106608823
TW	3199.146402	23670	0.135156164	11.85711857
US	311323.2183	559842	0.556091215	11.28058941
ZA	8239.661376	22540	0.365557293	6.75957089

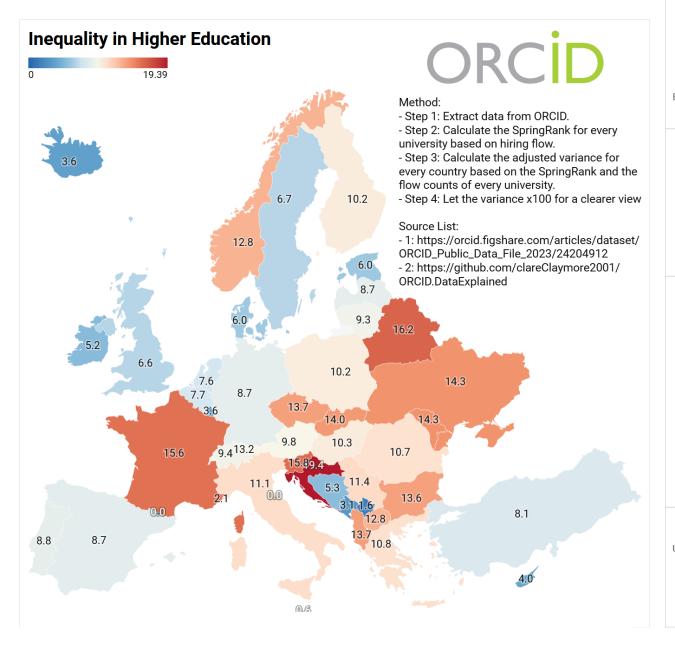
Finally ·····



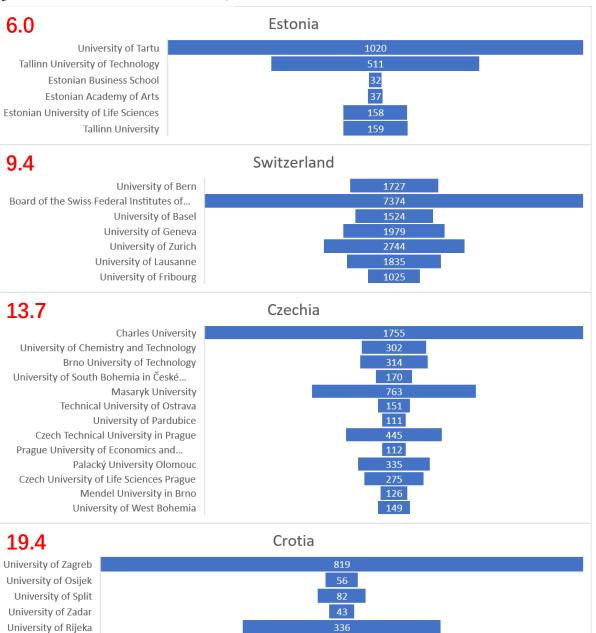


Interesting fact: There is only one university in Mauritania (a country in Africa), so its inequality is zero.

Understand the data

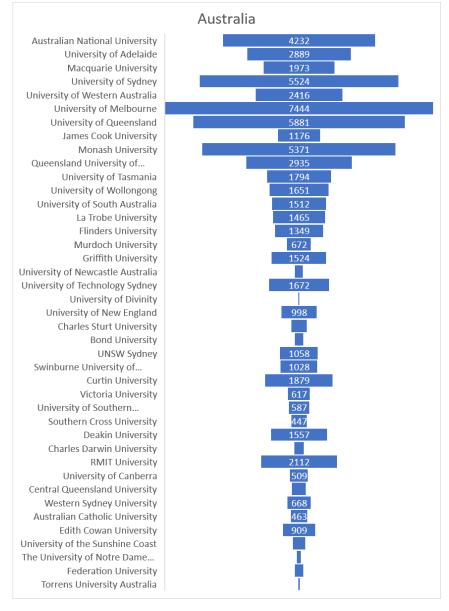


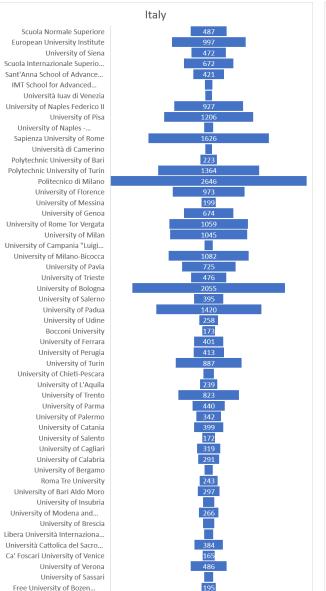
Know the Difference

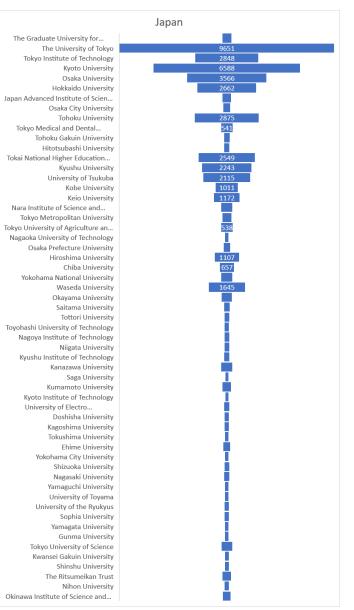


Understand the data 2

6 11







17

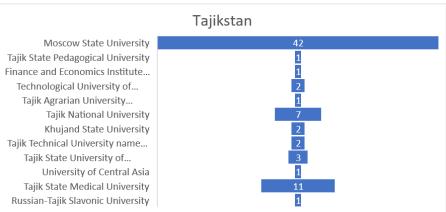
Understand the data 3



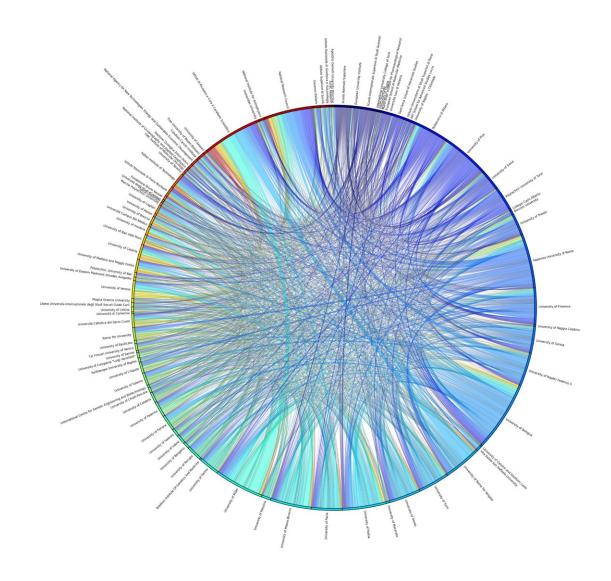
In Tajikstan, their only good university is a branch university from Russia

Inequality: 88

OrgSpringRank	OrgID	Cou	City	OrgName	OrgType	Count
1.758882309	https://ror.org/050a13t43	TJ	Dushanbe	Moscow State University	education	42
1.101515055	https://ror.org/015dapv07	TJ	Dushanbe	Tajik State Pedagogical University	education	1
1.051230972	https://ror.org/01k1ffv36	TJ	Dushanbe	Finance and Economics Institute of Tajikistan	education	1
0.057469313	https://ror.org/00y792711	TJ	Dushanbe	Technological University of Tajikistan	education	2
0.041113226	https://ror.org/045cv1381	TJ	Dushanbe	Tajik Agrarian University Shirinsho Shotemur	education	1
0.018130158	https://ror.org/04bccg972	TJ	Dushanbe	Tajik National University	education	7
0	https://ror.org/02r6cx512	TJ	Khŭjand	Khujand State University	education	2
-0.049735456	https://ror.org/01c1kpg39	TJ	Dushanbe	Tajik Technical University named after academic M.S.Osimi	education	2
-0.127098367	https://ror.org/00v76vw28	TJ	Dushanbe	Tajik State University of Commerce	education	3
-0.257941493	https://ror.org/05hphhy26	TJ	Khorugh	University of Central Asia	education	1
-0.342689371	https://ror.org/02emvsg33	TJ	Dushanbe	Tajik State Medical University	education	11
-0.358419848	https://ror.org/00sk4kx55	TJ	Dushanbe	Russian-Tajik Slavonic University	education	1



Thanks for listening!



George Orwell



"All animals are equal, but some animals are more equal than others."