



World
University
Rankings 2024

THE 2024 World University Rankings Data Masterclass – Latin America

David Watkins
Managing Director of Data Science



World University Rankings 2024 Data Masterclass Agenda

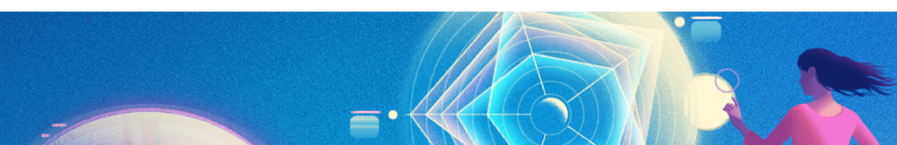
Methodology Review

LatAm Trends and Analyses

How to participate

Solutions

Q&A



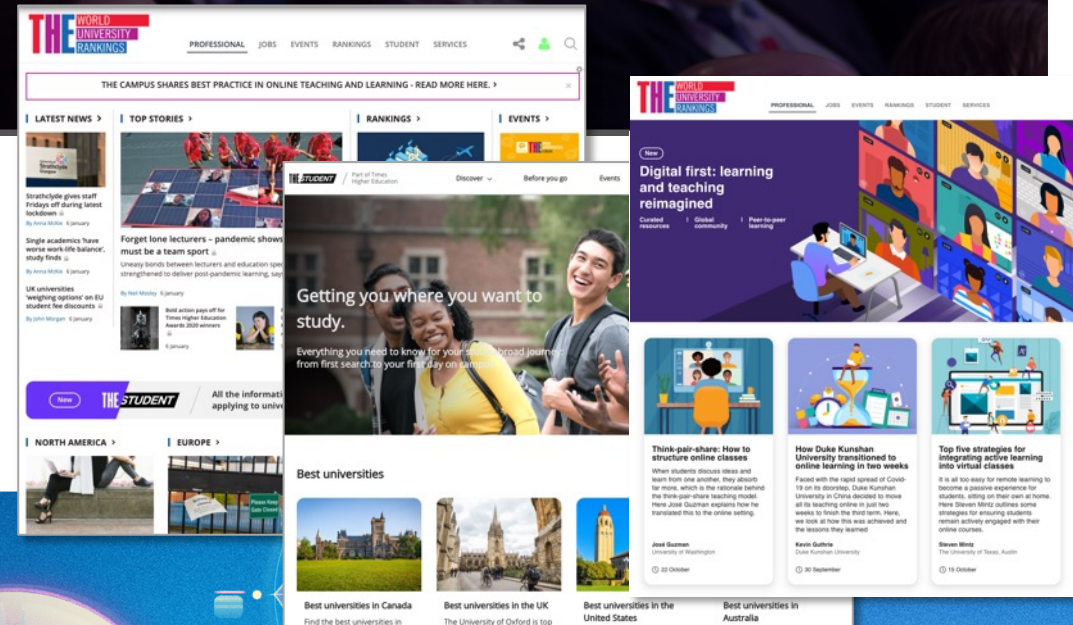
50+ Years of Insights

To help **universities** understand their position against their mission.
To help **students** find and access the university best suited to their abilities and aspirations.
To help **higher education** deliver transformational teaching, research and innovation.

1971



2023



Our Rankings

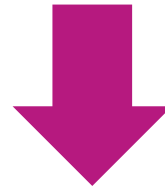
TEACHING



Focus: student satisfaction, employer reputation, graduation rate + more

Participation rules: country specific

RESEARCH



Focus: research output, research quality, research collaboration, reputation + more

Participation rules: 1,000+ publications over 5 years, teach undergraduates across a range of subjects

IMPACT & SUSTAINABILITY

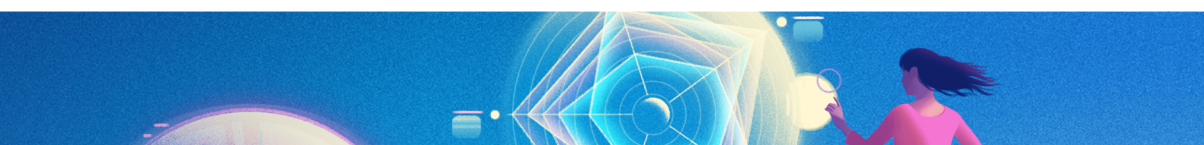
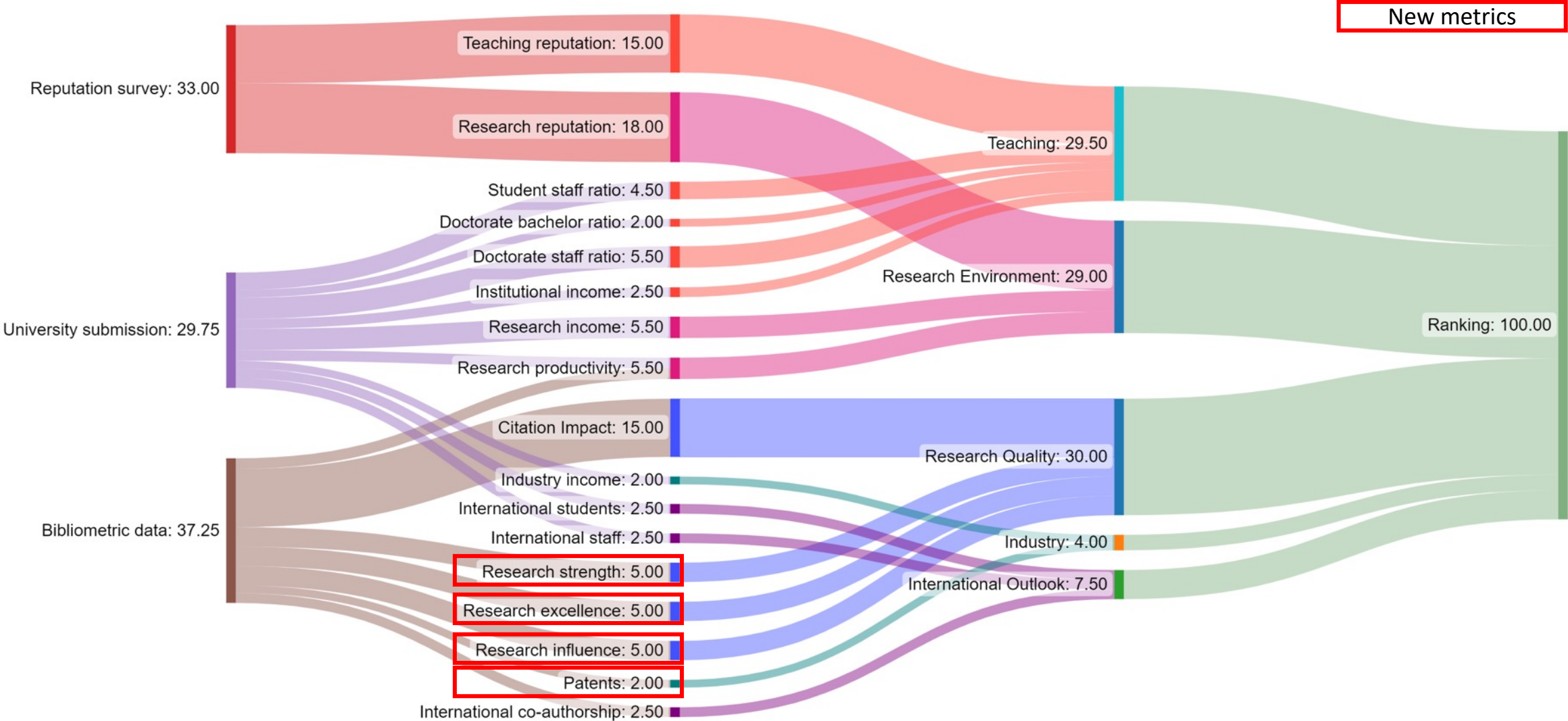


Focus: research, teaching, stewardship and outreach against the UN's 17 Sustainable Development Goals

Participation rules: all UG or PG higher education institutions



Methodology



The world's biggest university ranking

Universities

The world's biggest university ranking

Universities submitted data

2,673

Number of countries represented

127

Bibliometrics

In partnership with **ELSEVIER**

Research papers

16.5m

Citations

134m

Universities Data

The world's largest data gathering exercise from universities

Data values

411,789

Data queries resolved

34,455

Academic Survey

The world's largest academic survey

Respondents

68,402

Votes

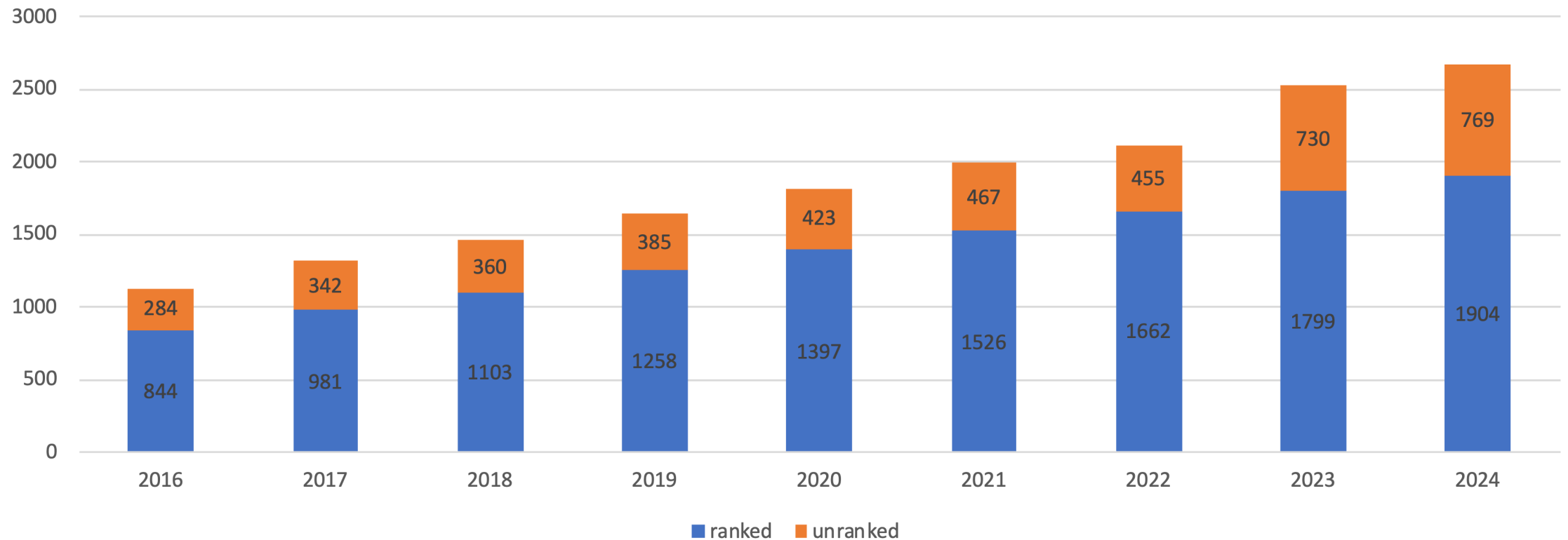
944,509

Countries

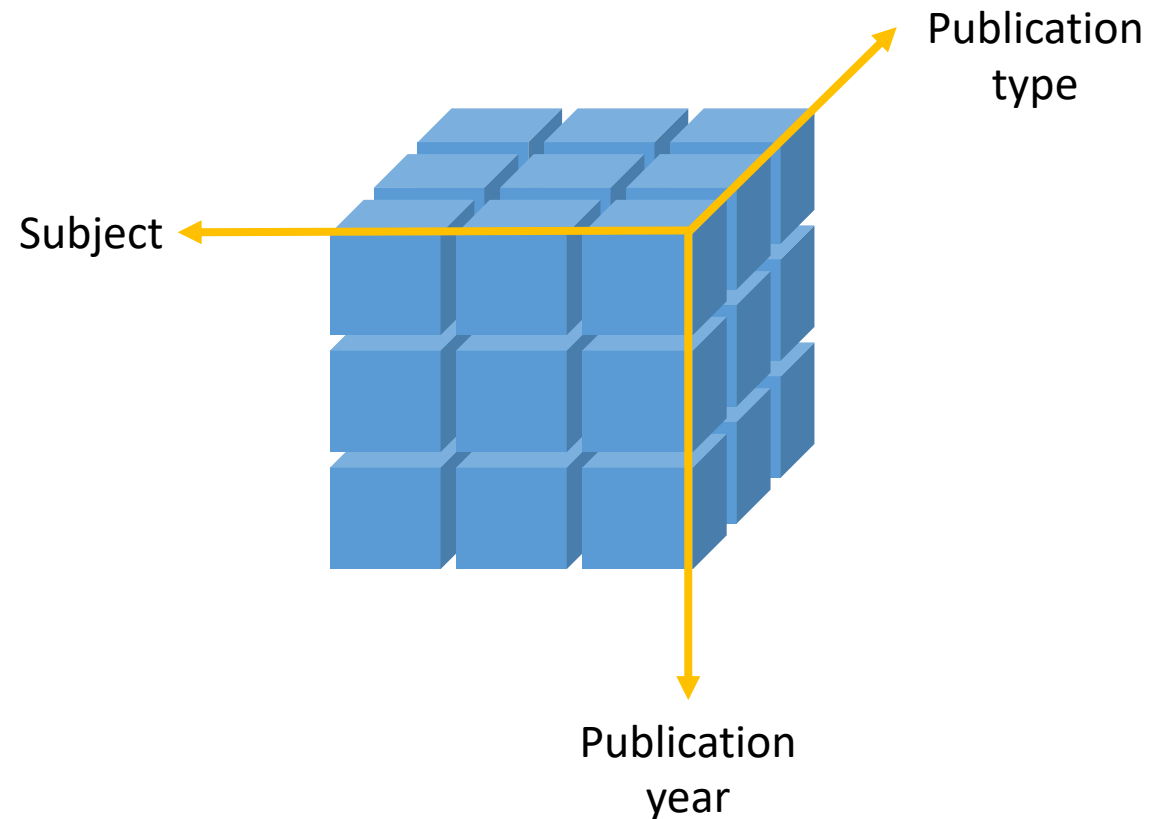
166

20th Anniversary of THE World University Rankings

Number of universities which submitted data to THE World University Rankings



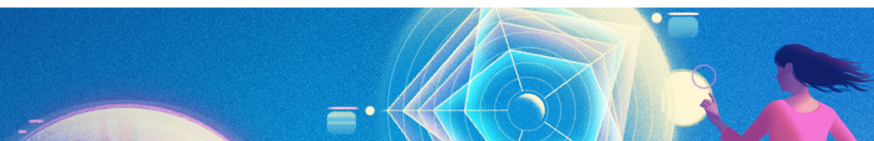
What is Field Weighted Citation Impact?



Let's say I published a journal article in 2019 on artificial intelligence, and it received 6 citations so far...

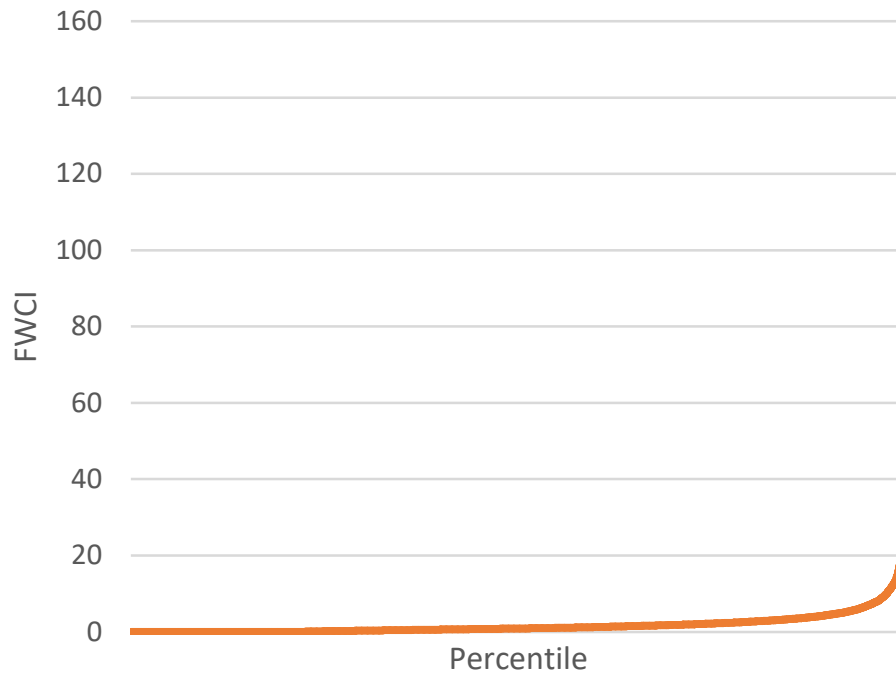
...and the average number of citations received by publications of the same type, same year and same subject is 2...

...then the FWCI of this publication is $6/2 = 3$

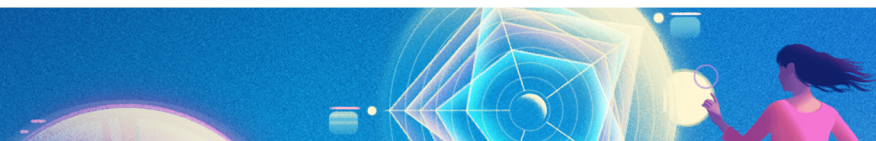
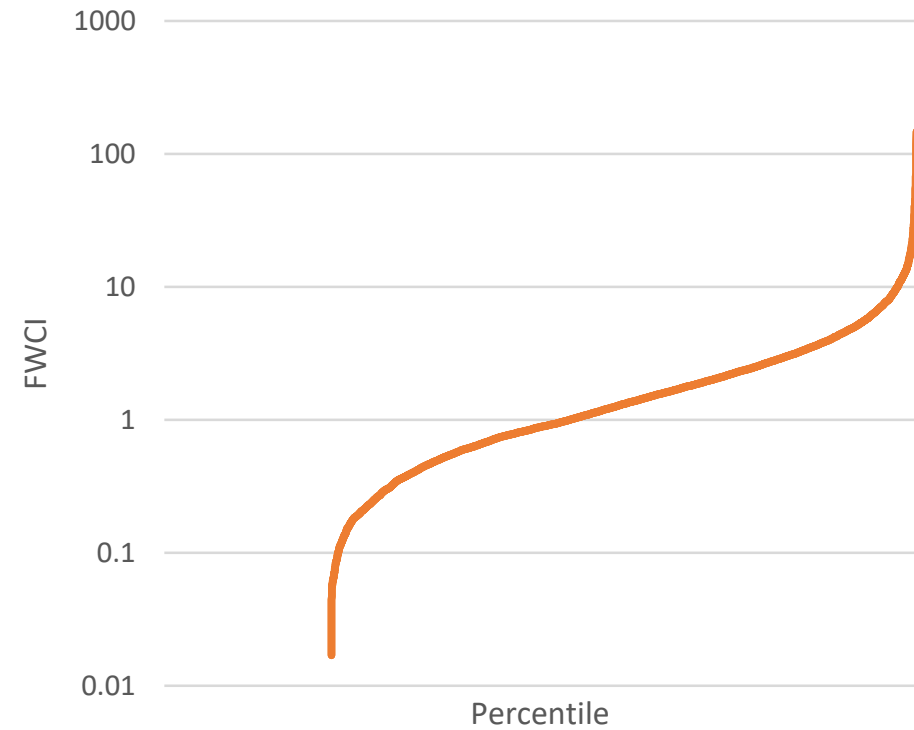


What about FWCI of an author or an institution?

FWCI of a tech oriented university in East Asia

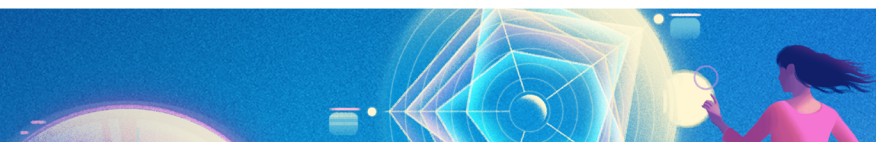
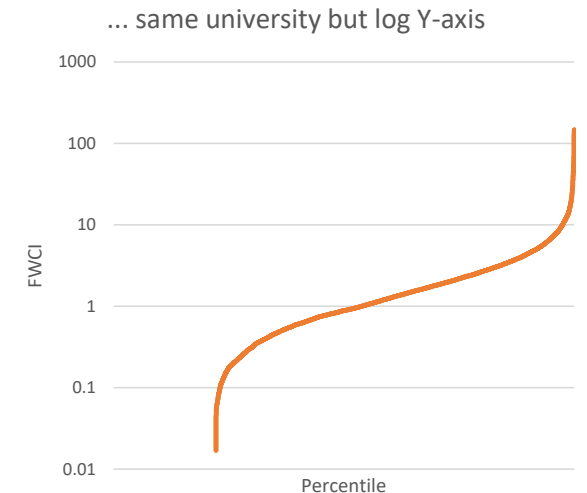


... same university but log Y-axis



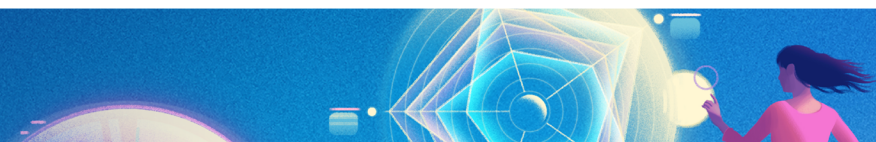
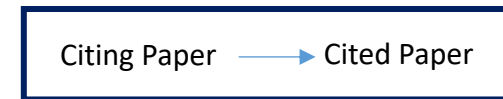
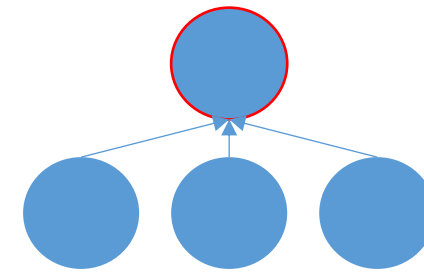
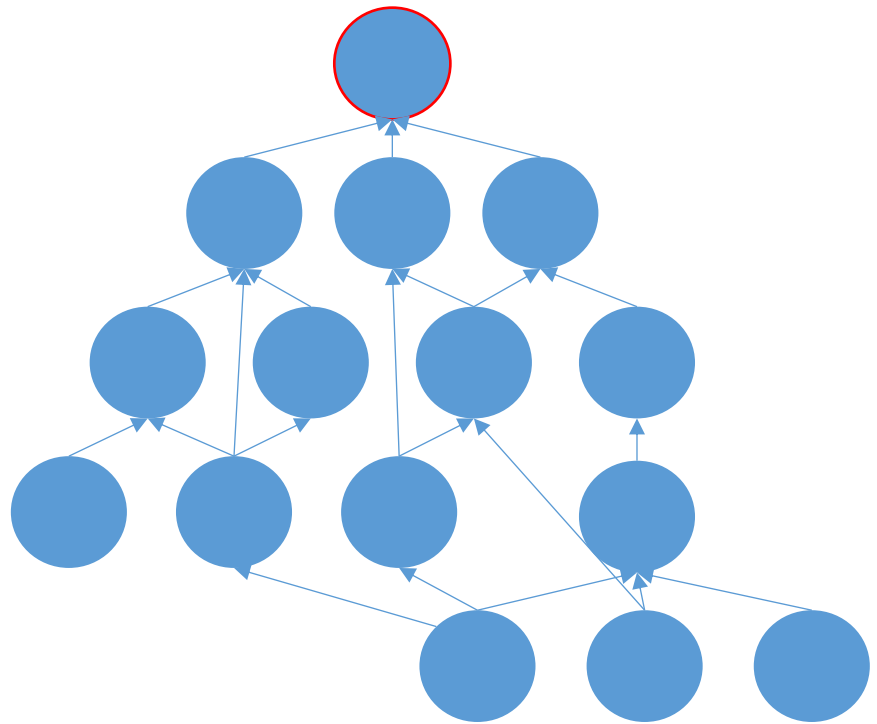
THE World University Rankings Research Quality Metrics

- Citation Impact – Mean FWCI of an institution’s output, but with tweaks
 - Kilo-author papers
 - Country normalisation
- Research Strength – 75th percentile FWCI of an institution’s output
- Research Excellence – Number of papers in top 10 percent by FWCI
- Research Influence – Different from others research quality metrics
 - Not all citations are created equal
 - Citations from important papers counts more
 - How to define “important papers”?



Research Influence - Papers

Both papers have 3 citations. Which one is likely to be more “influential”?

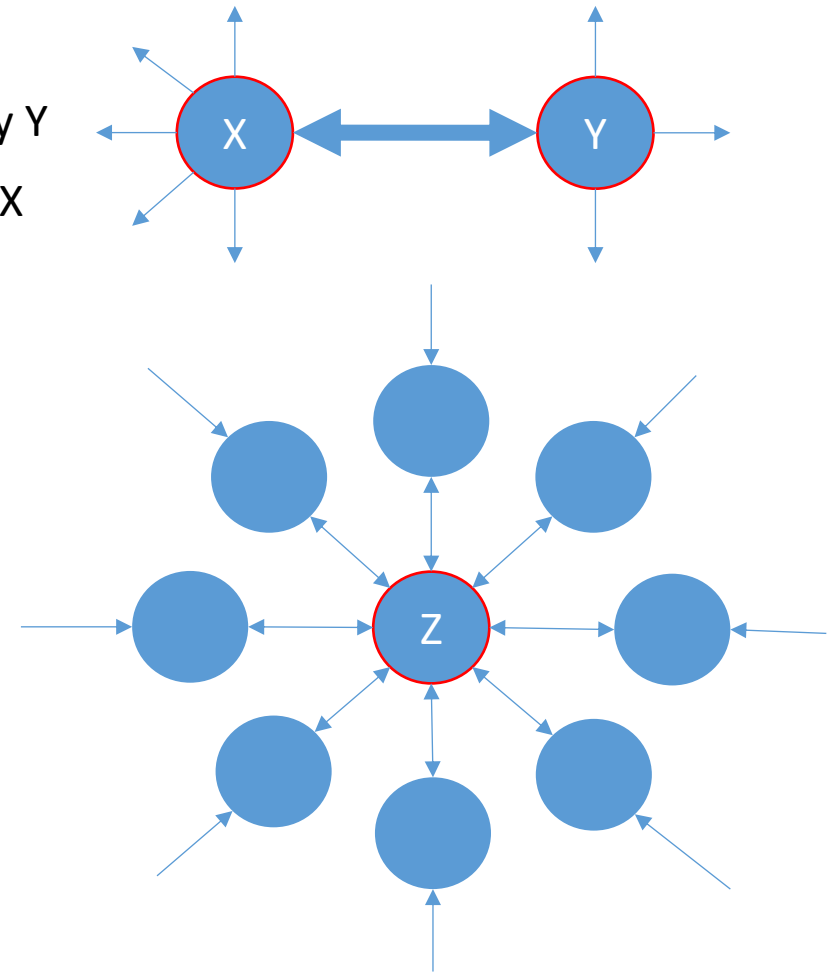


Research Influence - Universities

In Computer Science in 2022:

- University X has a set of papers with 1000 citations, all from University Y
- University Y has a set of papers with 900 citations, all from University X
- Papers from X & Y universities do cite other universities papers
- University Z has a set of papers with 800 citations, from universities around the world, including universities who receive over 10000 citations for all their papers

Papers from University Z had the least citations, but it is the most influential university of these 3.



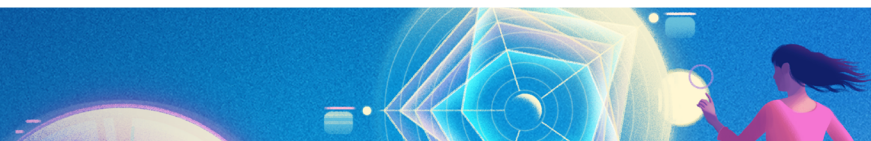
Research Influence – What is it?

Research Influence looks at the network of citations around papers to understand what impact they are having around the world.

In essence, it works like a popularity contest for papers. It's not just about the quantity of citations but also the quality, with citations from reputable papers carrying more weight.

Each paper gets an influence score based on how many other papers cite it and how influential those citing papers are. If a lot of influential papers cite a paper, it gets a higher influence score.

The calculation for Research Influence is based on Google's "[Page Rank](#)" algorithm.



Research Influence – How it works

Papers start with the same influence

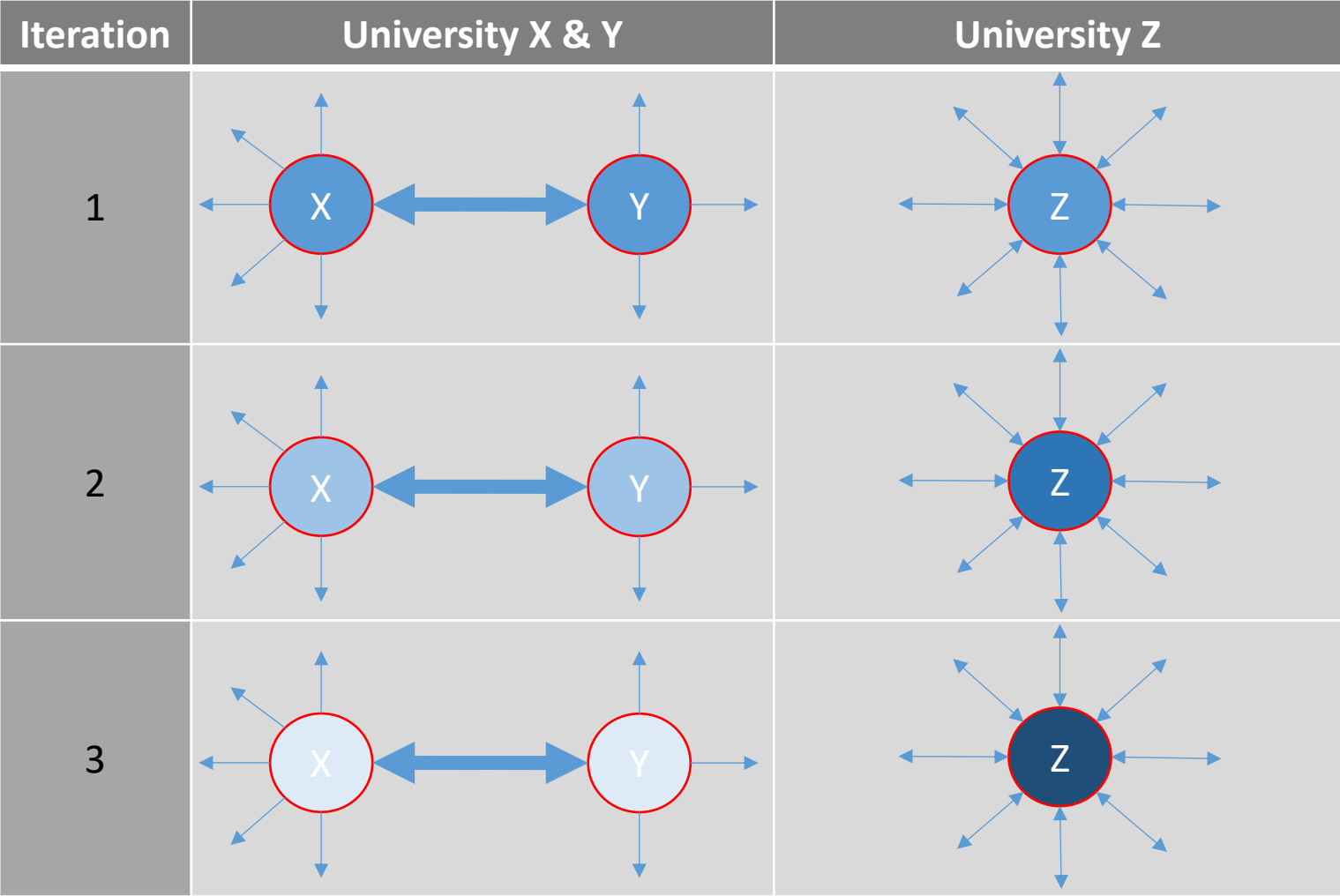
We can then think of some of a papers influence being shared amongst the papers it cites

This process is repeated multiple times through a number of iterations (page rank is an iterative algorithm)

The effect is that papers that are well connected receive more influence scores than from papers that aren't

This is then rolled up to the university level to calculate university influence

The diagram shows the effect at university level which is an aggregation of the papers produced by the university; this is done to aid understanding. The algorithm works at the paper level.

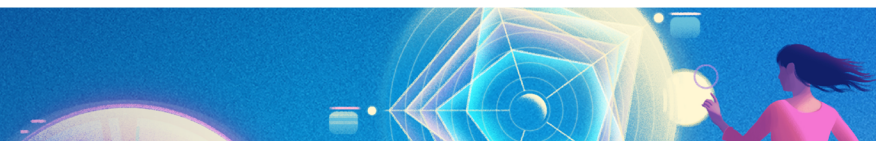


Deeper Blue indicates more Research Influence



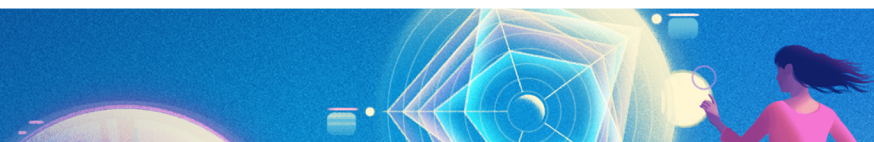
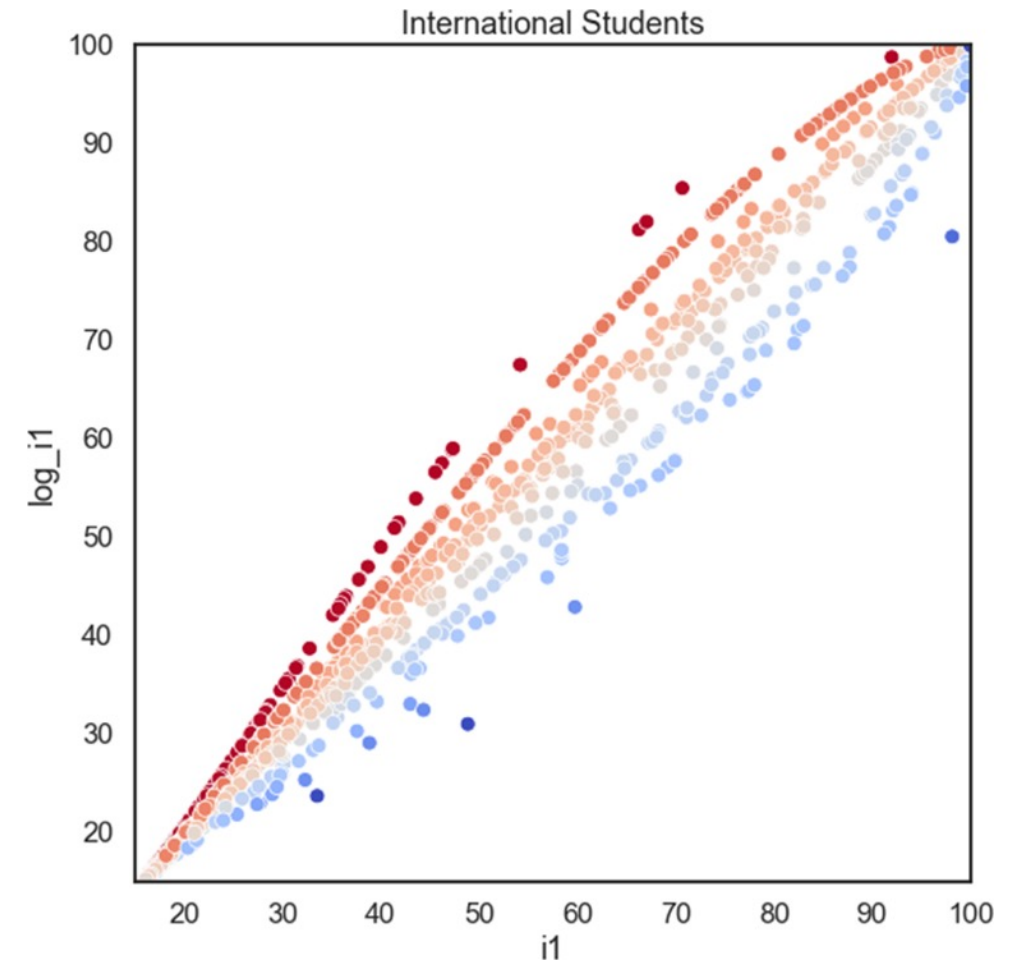
Industry: Patents

- The extent to which universities are supporting their national economies through technology transfer is an area that deserves greater recognition. We will be introducing an additional measure.
- Directly measures research output, specifically how much an institution's research is cited by patents. This is similar to one that we already use within the THE Impact Rankings (in SDG 9: Industry, Innovation and Infrastructure).
- This measure is subject weighted to avoid penalising universities producing research in fields low in patents.
- This is a count of patents, normalised by staff numbers.



International Outlook

- Large countries had been disadvantaged compared to small countries in our international metrics, in that it is “easier” for staff and students in small countries to work/study abroad.
- The existing metrics is now normalised to account for the populations size:
 - Proportion of international students
 - Proportion of international staff
 - Proportion of publications with at least one co-author from an international institution
- New Studying abroad metric at zero weight

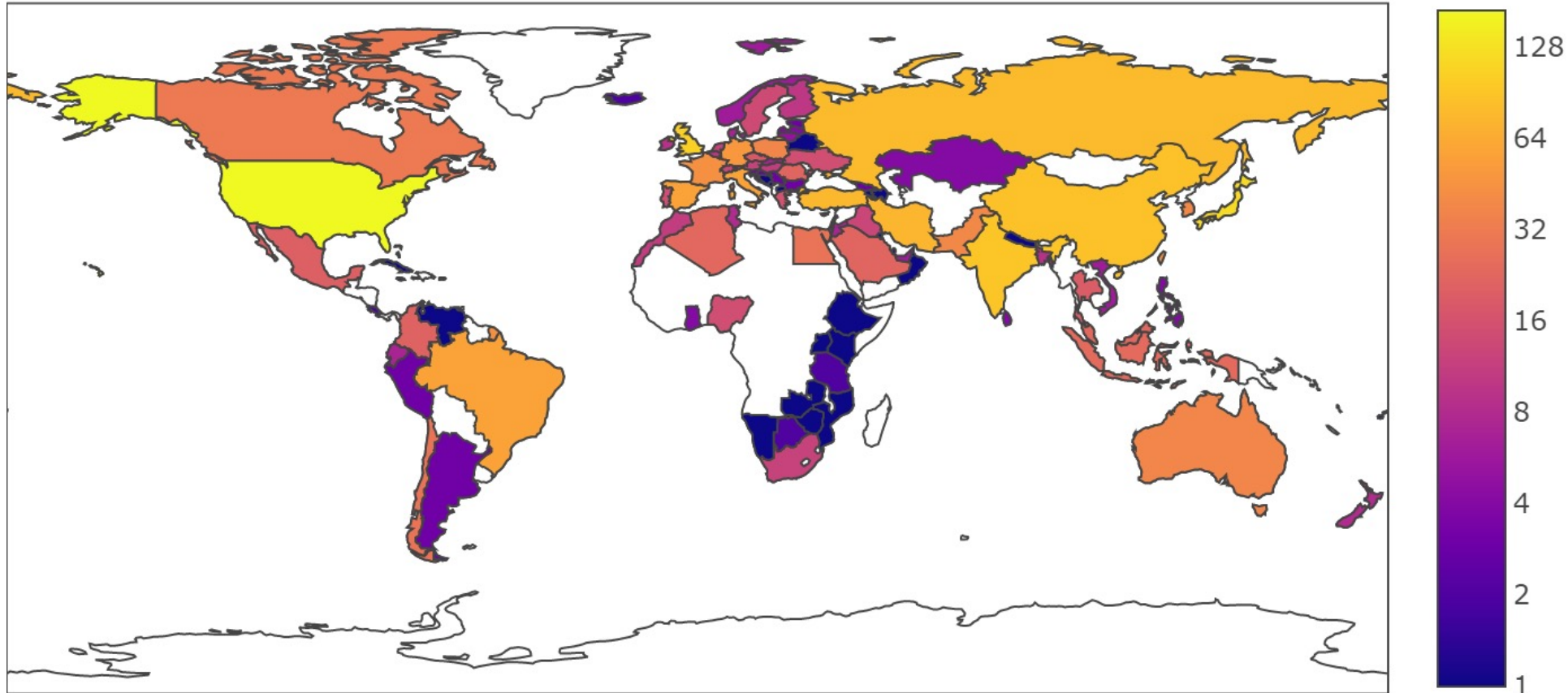


LatAm Trends and Analyses



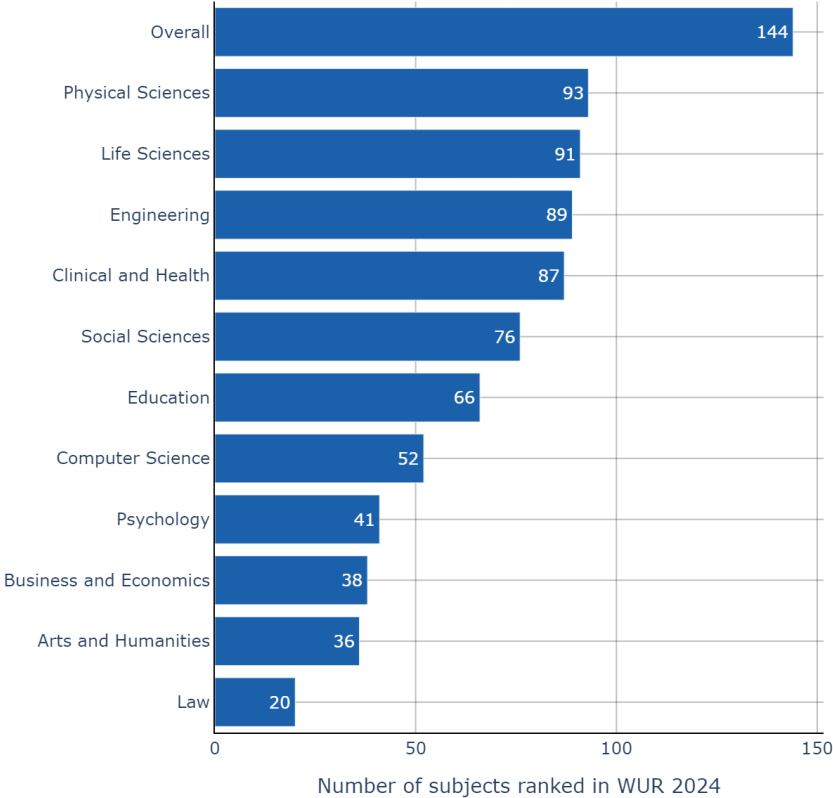
Universities per country/region in the World in WUR 2024

There are a total of 1904 institutions in The World ranked in the World University Rankings 2024, from 108 countries
144 institutions from LatAm were ranked.

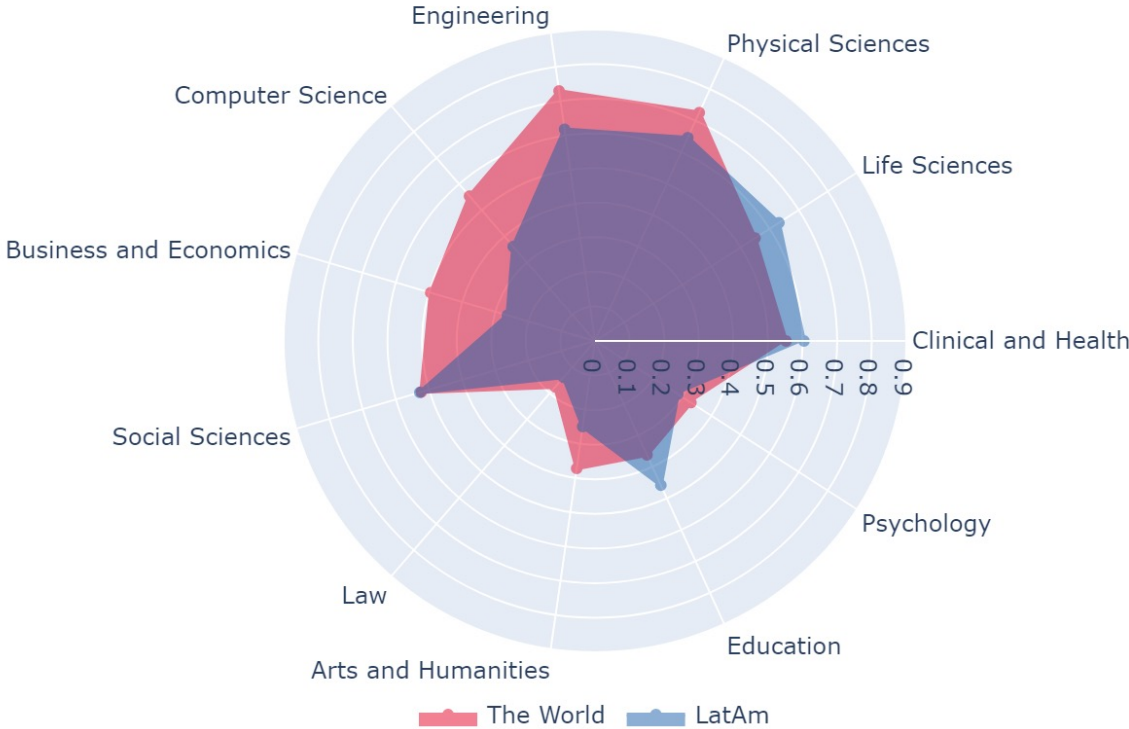


LatAm vs the World WUR 2024 subjects analysis

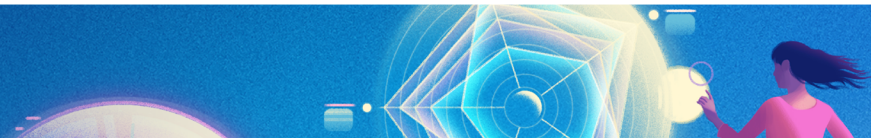
LatAm subjects ranked in WUR 2024



Percentage of universities with subjects ranked in WUR 2024

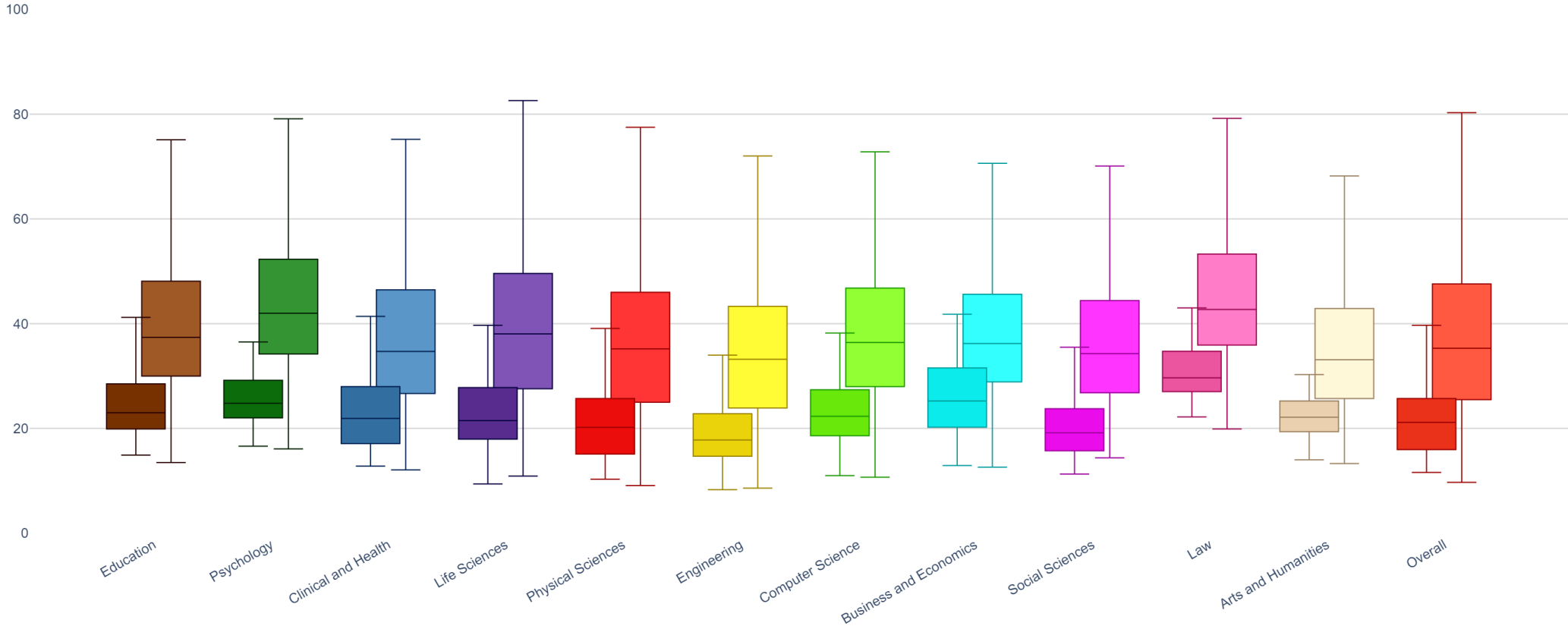


Across LatAm, Physical Sciences was the most frequently ranked subject in 2024 where it was ranked for 93 universities. Law was the least frequently ranked subject in 2024 with just 20 universities ranked.



LatAm vs the World WUR 2024 subjects comparison

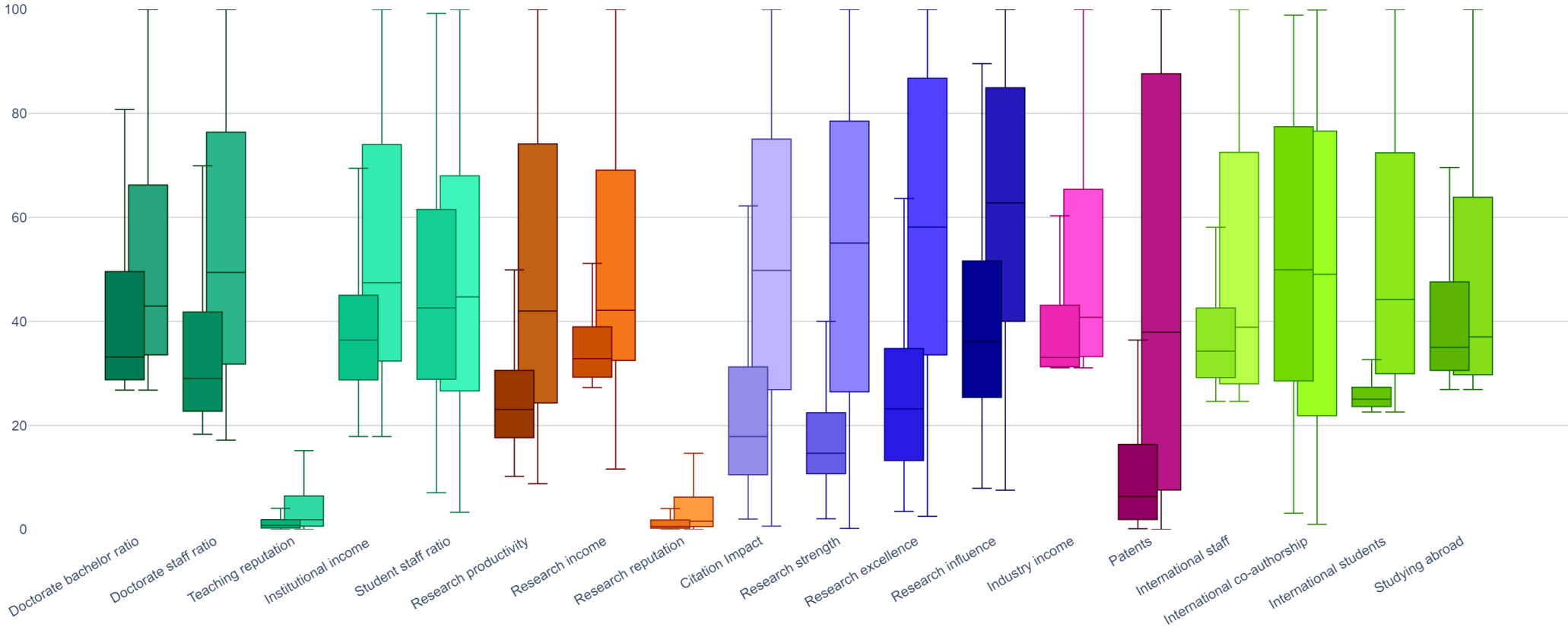
LatAm vs The World World University Rankings 2024 subjects boxplot



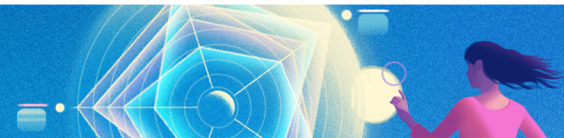
The boxes for LatAm are on the left, the boxes for The World are on the right

LatAm vs the World WUR 2024 metrics comparison

LatAm vs The World World University Rankings 2024 metrics boxplot

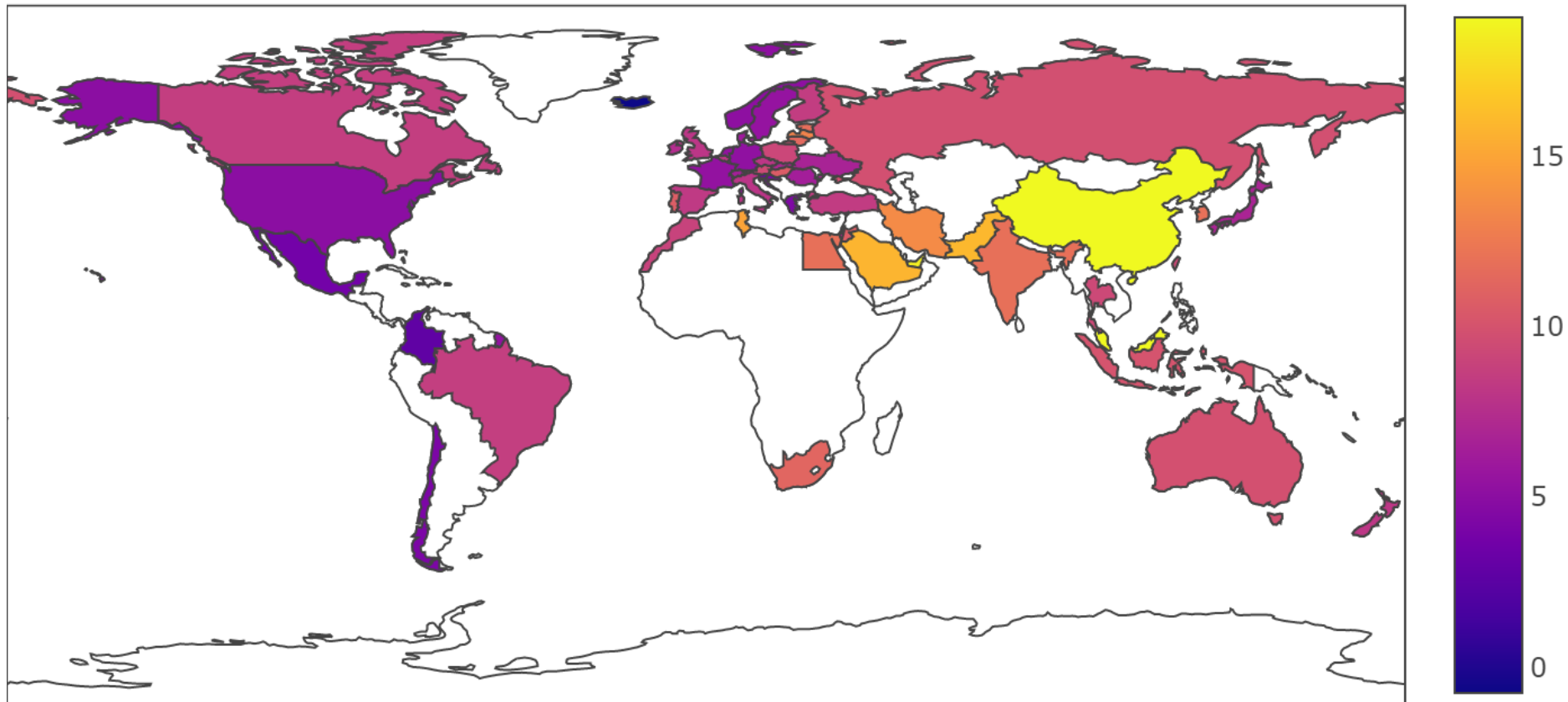


The boxes for LatAm are on the left, the boxes for The World are on the right

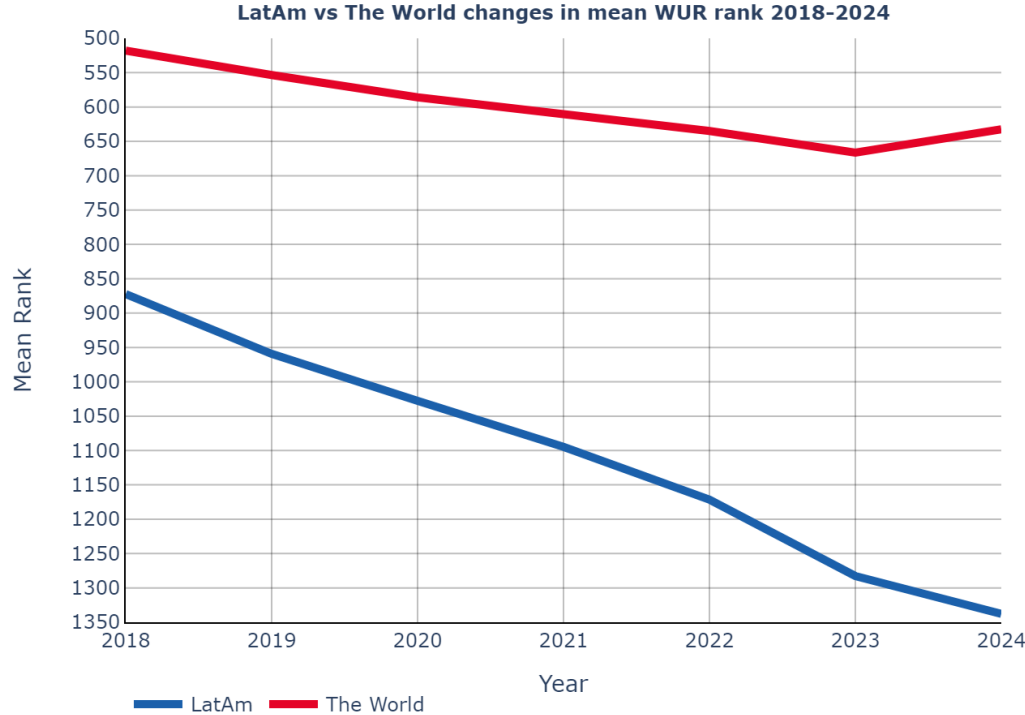


Countries average WUR score changes 2018-2024

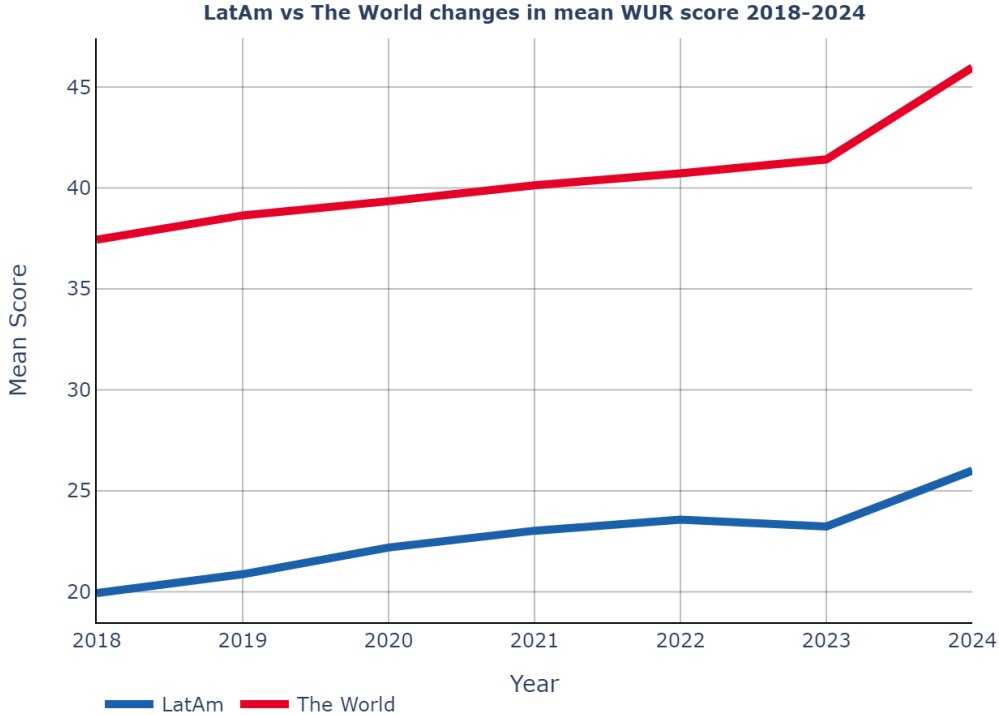
The WUR Score for LatAm has increased by an average of **6.1** between 2018 and 2024, World has increased by an average of **8.1** during the same period.



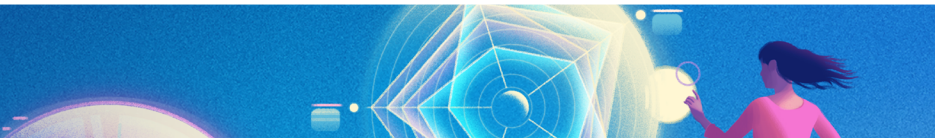
LatAm changes in WUR scores 2018-2024



The WUR rank for LatAm has decreased by an average of 465 between 2018 and 2024, The World decreased by an average of 114. Note that the number of universities in WUR has risen from 1103 in 2018 to 1904 in 2024.

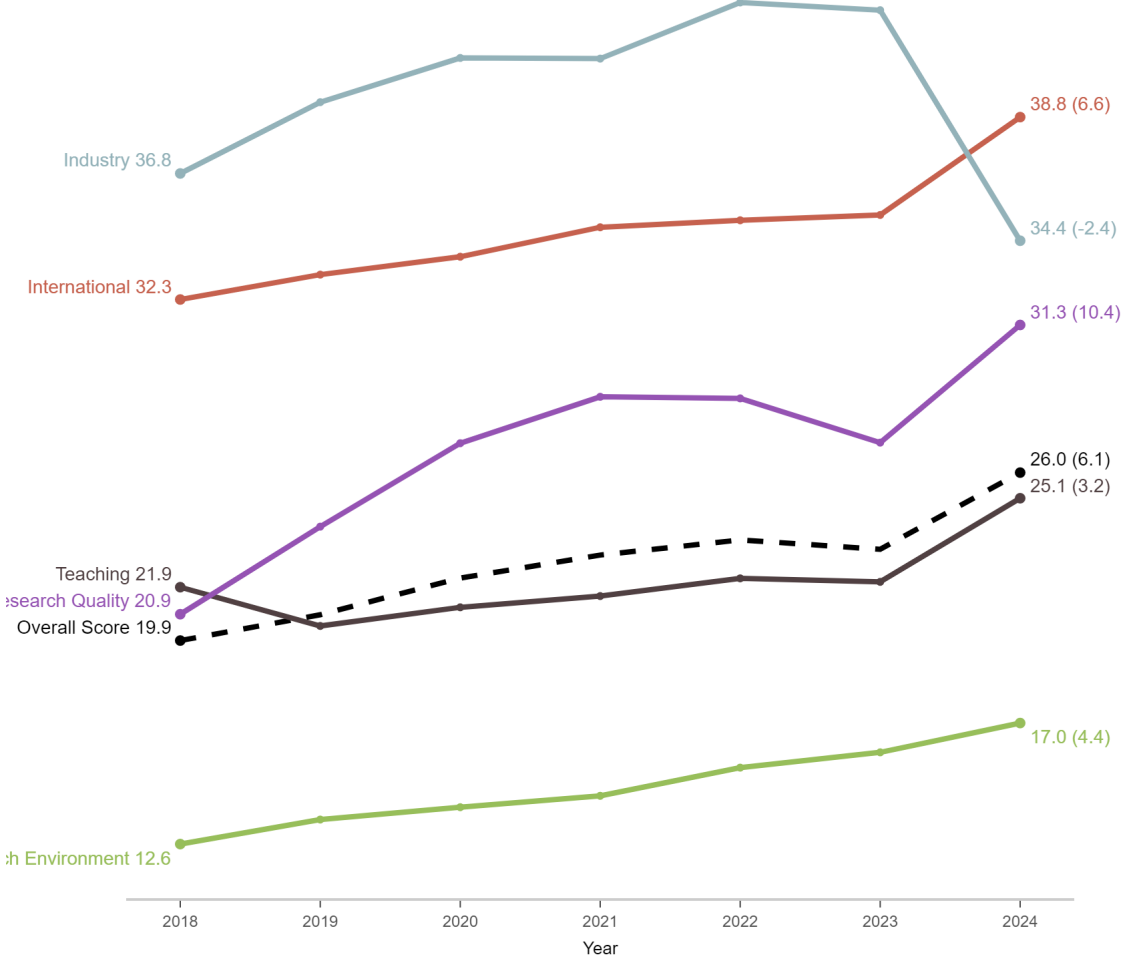


The WUR Score for LatAm has increased by an average of 6.1 between 2018 and 2024, The World has increased by an average of 8.5 during the same period.



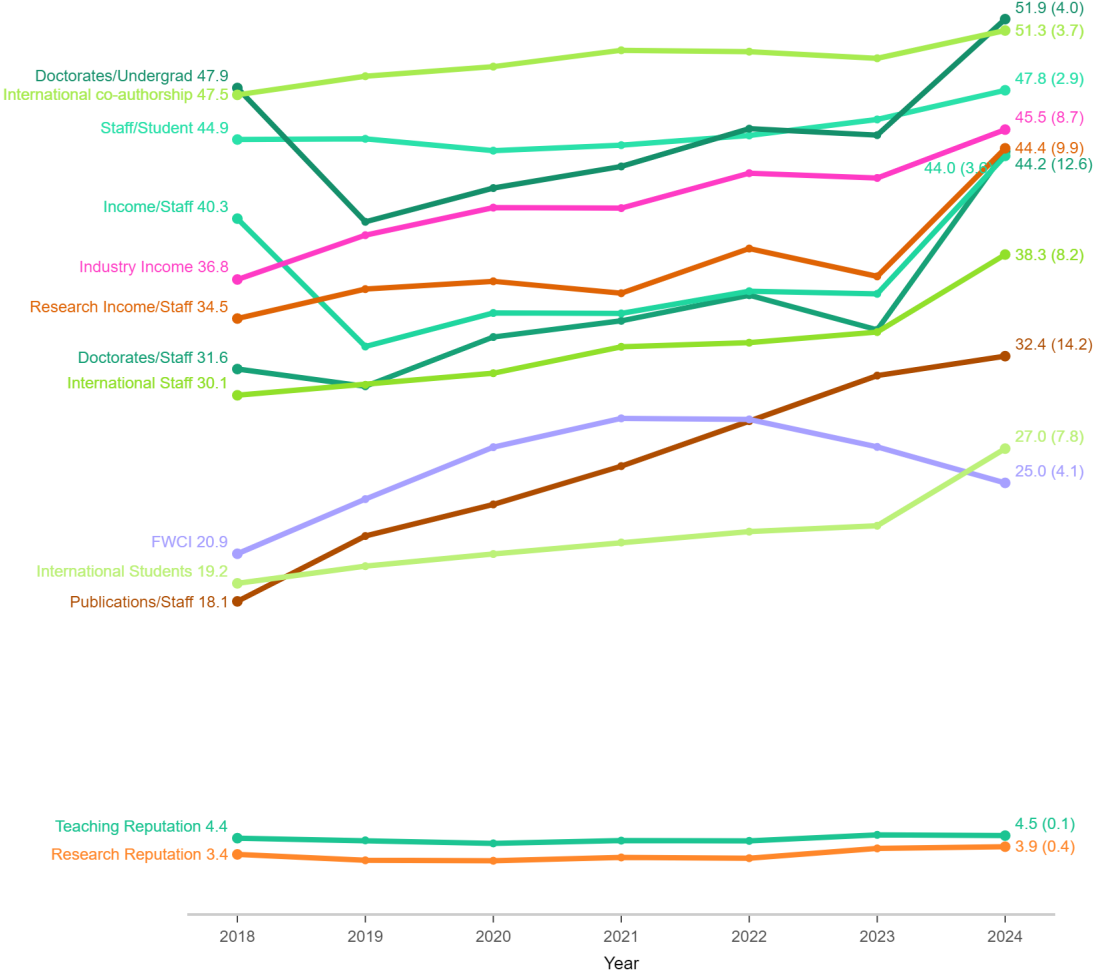
LatAm changes in WUR scores 2018-2024

LatAm in The World: Changes in WUR pillar scores 2018-2024



Between 2018 and 2024, the Research Quality score has increased by an average of 10.4. The Industry score has decreased by an average of 2.4

LatAm in The World: Changes in WUR metric scores 2018-2024

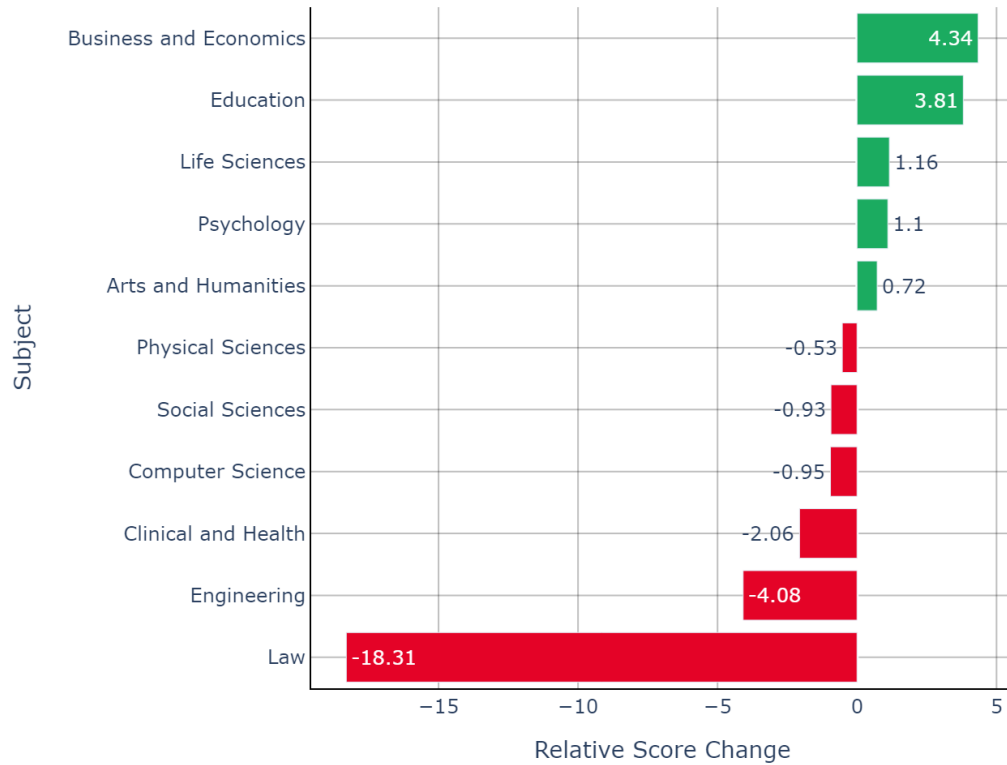


Between 2018 and 2024, the Publications/Staff score has increased by an average of 14.2.

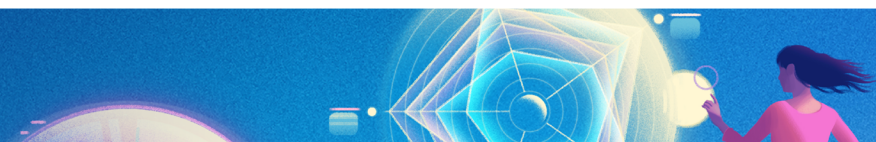
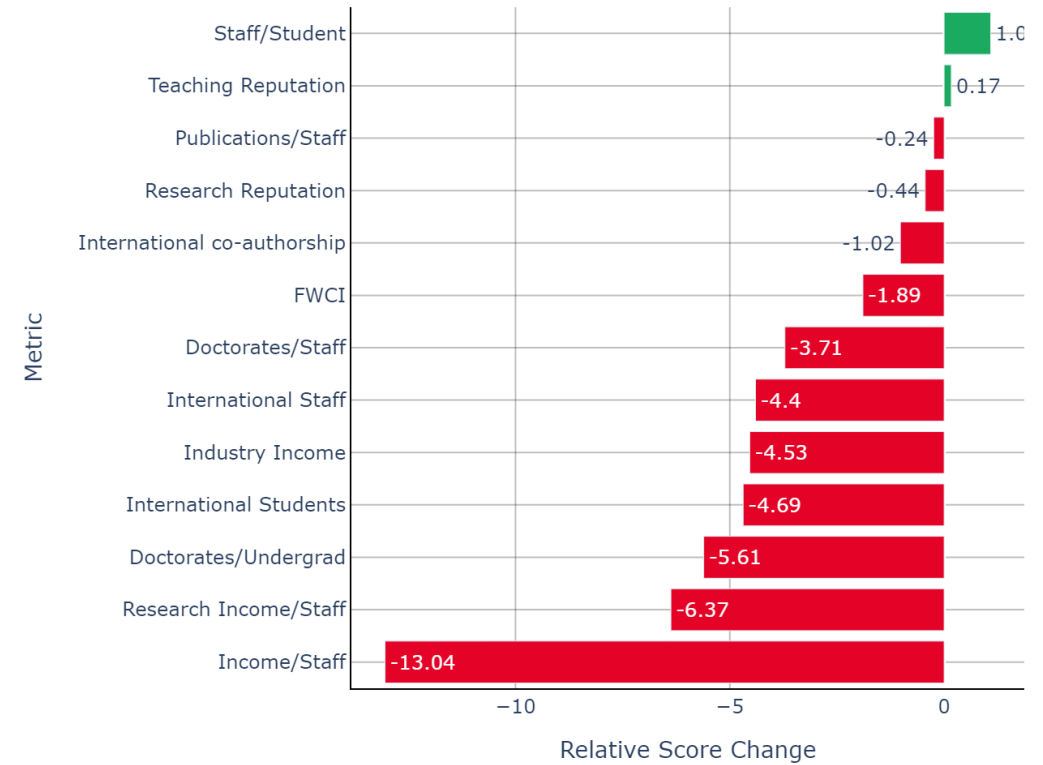


Subject and Metric Trend Analysis 2018-2024

LatAm vs The World Subject Relative Score Change 2018-2024

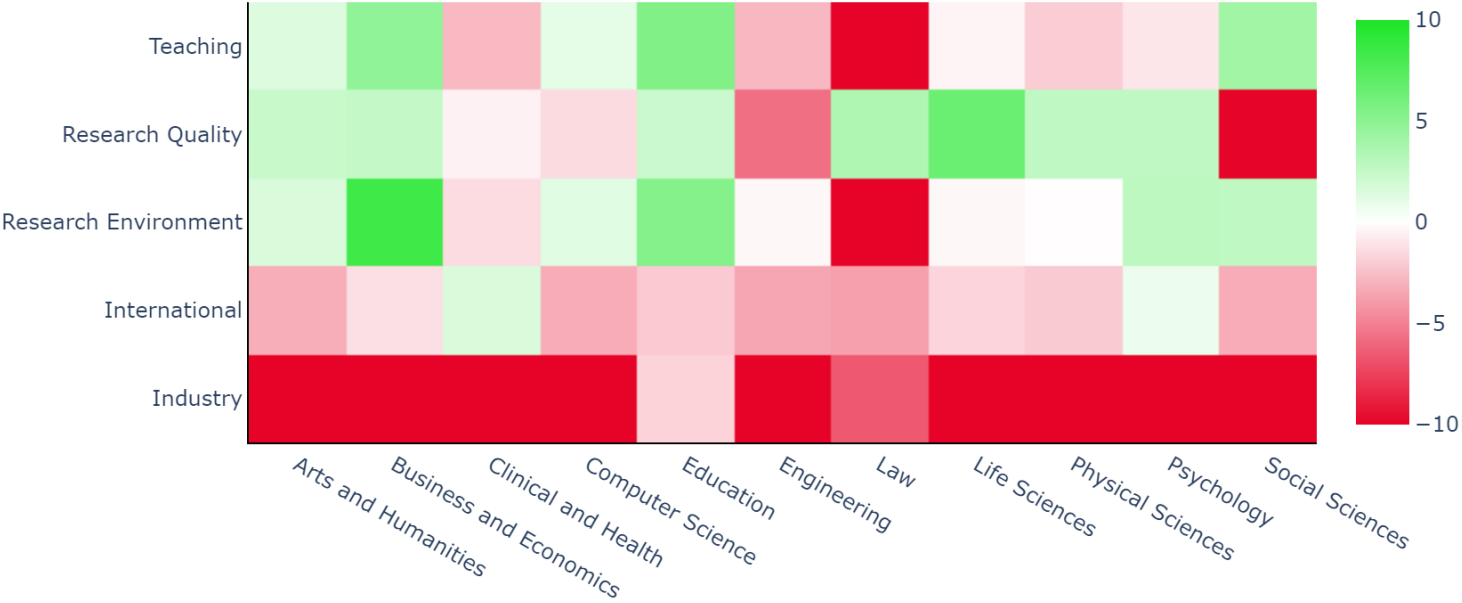


LatAm vs The World Metric Relative Score Change 2018-2024



LatAM vs The World 2018-2024 Heatmap of changes

LatAm vs The World pillar comparison 2018-2024



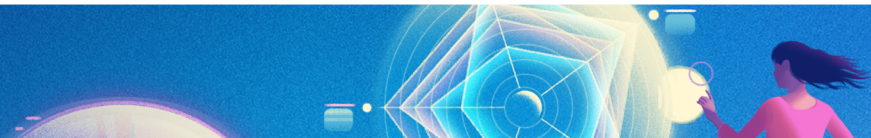
High Growth Areas

- Business and Economics - Research Environment
- Life Sciences - Research Quality
- Education - Teaching
- Education - Research Environment
- Business and Economics - Teaching

Low Growth Areas

- Law - Teaching
- Clinical and Health - Industry
- Physical Sciences - Industry
- Law - Research Environment
- Arts and Humanities - Industry

The heatmap shows the relative change in scores from 2018 to 2024 for LatAm compared to The World. Green squares represent a relative increase in score for LatAm



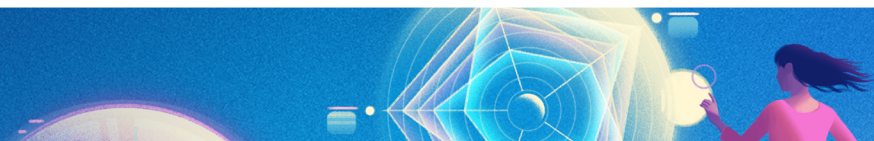
How to participate?



Eligibility Criteria

Participation in THE World University Rankings (or any other THE rankings) is always free of charge. However, there is a set of eligibility criteria

- Must teach at undergraduate level
- Publication requirements
 - At least 1000 publications in 5 years
 - At least 150 publications each year
 - Separate publication requirements for the subject rankings
- Must not be a subject specialist



How to take part

We need your help for the **institutional data**

1. Nominate a Data Provider

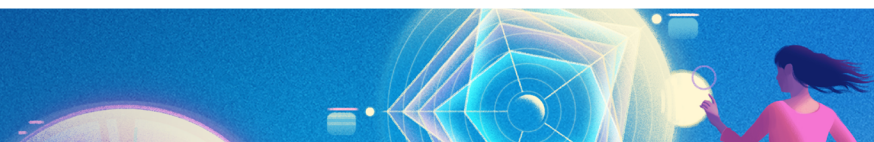
A Data Provider for your institution will need to be nominated.

Please email us at profilerankings@timeshighereducation.com

2. Connect to the Portal

Your Data Provider will receive login details to connect to the Data Collection Portal

The Portal will be open between 8 January and 30 March



Data Collection Portal 1/3



World University Ranking 2022

Complete the stages of the data collection process

THE- Times Higher Education World

Introduction

Institution Profile

Data

Notes

Review, print & submit

Welcome to the *Times Higher Education (THE)* World University Rankings data collection portal.

The secure portal is structured to collect accurate and detailed information to enable us to develop a detailed, multifaceted performance profile of your institution to create the *THE* World University Rankings and related specialist rankings.

Please note that this portal is directly managed by Times Higher Education and is the only source of institutional data for the THE World University Rankings. The information that you submit will be combined with other sources of data and used to create a comprehensive and representative picture of your institution and of others around the world.

Only by submitting data via this portal can your institution be considered for inclusion in the *THE* World University Rankings and multiple related publications and products.

Thank you for taking the time to participate in this important global research project.

Please download our quick-start guide which explains the key aspects of the data collection process and how to navigate your institution's data collection portal account. We recommend that you read the information before you begin your data submission and refer to it during completion of the data collection process.

English user guide

Arabic user guide

Mandarin user guide

German user guide

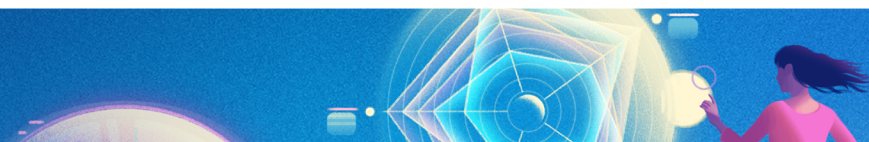
French user guide

Italian user guide

Japanese user guide

Korean user guide

Data collection materials are available for download in 12 languages



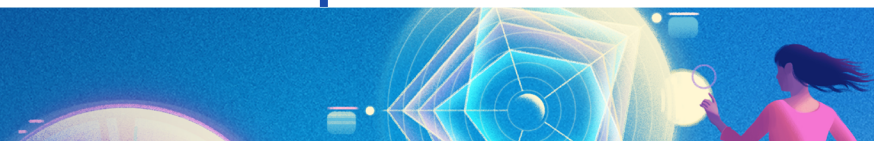
Data Collection Portal 2/3

We collect **data** at the institution level and in our 11 subjects

- Staff and international staff
- Students and international students
- Undergraduate degrees awarded and doctorates awarded
- Income data

New field for this year: outbound exchange students

Art and Humanities
Business and Economics
Clinical and Health
Computer Science
Education
Engineering
Law
Life Sciences
Physical Sciences
Psychology
Social Sciences



Data Collection Portal 3/3

Once you are done with data entry, please go to this tab to submit your data

THE TIMES Higher Education World

Introduction > Institution Profile > **Data** > Notes > **Review, print & submit**

Please provide information about the teaching and research activities of your institution. The more data that you share, the more meaningful your profile will be.

Please note that all information should be entered in English. Click on each of the sections below and complete your data.

Important notes

- Please provide data about people as full-time equivalents (FTE), with no commas or thousand separators (e.g. 18742.5).
- Please note that the income data we request at the subject level (total institutional income, research income, research income from industry and commerce) needs to be broken down by subject. Please DO NOT replicate the income data from the overall level into the subject level. Ideally, any data at the subject level should add up to the data at the overall level.
- Please provide monetary data in the currency selected and report in whole numbers (i.e. 17865456) with no punctuation. Thousands separators and decimal points are not permitted.
- If you are finding it difficult to complete the mandatory fields or in completing the form in English, please do not hesitate to contact us at profilerankings@timeshighereducation.com

Enter the data

All fields marked with a † are required in order to participate in the Overall Rankings. Note that this includes some subject fields. Additionally, fields marked with a * are also required in order to be eligible for the Subject Rankings.

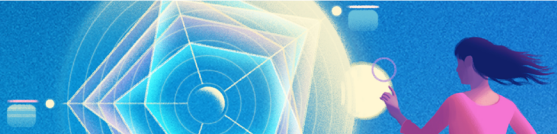
Overall - This section is mandatory for all universities to complete 61%

In this section you should submit data about your institution as a whole. This is not an automatically calculated sum of categories. You are required to enter data manually.

[IPEDS subject mapping](#)

| | 2020 | 2019 |
|---|------|---|
| Number of academic staff (FTE) † | 562 | Data unavailable |
| | | We do not record this type of information |
| Number of academic staff of international/overseas origin (FTE) † | 230 | Data unavailable |
| | | data unavailable |

[Help](#)



Explore more of THE's datasets

Would you like to assess the impact of WUR 3.0 on your ranking performance?

THE Consulting provides in-depth knowledge and bespoke analyses to help you navigate the changing world of global higher education

Contact THE Consulting

Join THE Membership to receive these reports on an annual basis

THE members receive exclusive access to a variety of THE resources, events and data to support with training and development. THE Membership is available to universities, organisations and governments for a low annual cost, and includes access to THE's Country Insights Reports (which are updated regularly).

THE Membership

Get direct access to the data via THE DataPoints - THE's data benchmarking platform

Comprehensive country insights data is available in THE DataPoints via an interactive dashboard where you can access all datasets for all countries and territories.

Explore THE DataPoints

Q&A



Participate in the Impact Rankings

Scan today:



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Impact Rankings

