WORLD UNIVERSITY RANKINGS PREVIEW 2021

Dr. Andrew MacFarlane
Rankings Manager
WHICH CONTINENT HAS THE GREATEST REPRESENTATION IN WUR 2021?

- EUROPE
- NORTH AMERICA
- ASIA
1,002 UNIVERSITIES

80 LOCATIONS COVERED (TOP 1000)

1,002 INSTITUTIONS RANKED (TOP 1000)

47 NEW INSTITUTIONS (TOP 1000)

NEW ENTRANTS BY REGION

- East Asia: 11
- Eastern Europe: 11
- Southern Europe: 7
- Latin America: 6
- Middle East: 5
- Western Europe: 5
- Central Asia: 1
- South Asia: 1

DISTRIBUTION BY REGION

- QS World University Rankings 2021
- University Rankings
- World University Rankings

PROPORTION OF INSTITUTIONS BY REGION BY RANGE

- Europe: 408
- Asia Pacific: 277
- US & Canada: 177
- Middle East & Africa: 60
- Latin America: 80
- US & Canada: 177
- Middle East & Africa: 60
- Latin America: 80

39.8% - 15.6% - 10.8% - 7.0% - 26.7%
THE TOP 10 INSTITUTIONS FOR ACADEMIC REPUTATION ARE ALL FROM THE UK AND US EXCEPT FOR 1 – CAN YOU GUESS THE LOCATION?

- AUSTRALIA
- CHINA
- JAPAN
<table>
<thead>
<tr>
<th>Rank</th>
<th>University Name</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HARVARD UNIVERSITY</td>
<td>US</td>
</tr>
<tr>
<td>2</td>
<td>UNIVERSITY OF CAMBRIDGE</td>
<td>UK</td>
</tr>
<tr>
<td>3</td>
<td>UNIVERSITY OF OXFORD</td>
<td>UK</td>
</tr>
<tr>
<td>4</td>
<td>STANFORD UNIVERSITY</td>
<td>US</td>
</tr>
<tr>
<td>5</td>
<td>MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)</td>
<td>US</td>
</tr>
<tr>
<td>6</td>
<td>UNIVERSITY OF CALIFORNIA, BERKELEY (UCB)</td>
<td>US</td>
</tr>
<tr>
<td>7</td>
<td>THE UNIVERSITY OF TOKYO</td>
<td>JP</td>
</tr>
<tr>
<td>8</td>
<td>UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)</td>
<td>US</td>
</tr>
<tr>
<td>9</td>
<td>YALE UNIVERSITY</td>
<td>US</td>
</tr>
<tr>
<td>10</td>
<td>PRINCETON UNIVERSITY</td>
<td>US</td>
</tr>
<tr>
<td>11</td>
<td>COLUMBIA UNIVERSITY</td>
<td>US</td>
</tr>
<tr>
<td>12</td>
<td>NATIONAL UNIVERSITY OF SINGAPORE (NUS)</td>
<td>SG</td>
</tr>
<tr>
<td>13</td>
<td>UCL (UNIVERSITY COLLEGE LONDON)</td>
<td>UK</td>
</tr>
<tr>
<td>14</td>
<td>UNIVERSITY OF CHICAGO</td>
<td>US</td>
</tr>
<tr>
<td>15</td>
<td>UNIVERSITY OF TORONTO</td>
<td>CA</td>
</tr>
</tbody>
</table>

- The ‘cornerstone’ of the QS approach. Reputation matters

- US and UK dominating the field here, but strong entries from Japan (7) and Singapore (12).
US and UK again dominate the field, but we see entries from France, Japan and China

QS Skills Gap Report 2019 – data skills are key!
Research Metrics

For the 2021 edition of the QS World University Rankings over 18 million papers and 138 million citations indexed by Scopus were analysed. Globally, the research output is increasing, with the average institution producing nearly 5,400 publications, 4.3% more than in the previous edition. This increase has been more intensively felt in citations, with an average positive shift of almost 10% year on year.

**PAPERS AND CITATIONS COUNT**

<table>
<thead>
<tr>
<th></th>
<th>Data</th>
<th>% Difference</th>
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</thead>
<tbody>
<tr>
<td>Papers</td>
<td>18,580,368</td>
<td>37.9%</td>
</tr>
<tr>
<td>Citations</td>
<td>138,397,765</td>
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</tr>
<tr>
<td>Citations (SCE)</td>
<td>109,730,158</td>
<td>48.3%</td>
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</tbody>
</table>

**AVERAGE SHIFT IN THE RESEARCH METRICS**

<table>
<thead>
<tr>
<th></th>
<th>Average</th>
<th>% Difference</th>
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<tbody>
<tr>
<td>Papers</td>
<td>5,381</td>
<td>4.3%</td>
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<tr>
<td>Citations</td>
<td>57,268</td>
<td>9.2%</td>
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<tr>
<td>CitationsSCE</td>
<td>44,676</td>
<td>9.8%</td>
</tr>
<tr>
<td>Impact</td>
<td>5</td>
<td>7.2%</td>
</tr>
</tbody>
</table>

**5,381**
AVERAGE RECORDS PER INSTITUTION
4.3%
YEAR ON YEAR INCREASE

**57,268**
AVERAGE CITATIONS PER INSTITUTION
9.2%
YEAR ON YEAR INCREASE
AVERAGE PAPERS AND CITATIONS BY LOCATION - EVOLUTION
Research: The competition heats up
INTERNATIONAL FACULTY

120,647 IN TOP 100

YEAR ON YEAR INCREASE 1.9%

274,261 IN TOP 500

YEAR ON YEAR INCREASE 3.6%

INTERNATIONAL FACULTY TOP 10 LOCATIONS

- United Arab Emirates
- Macau
- Qatar
- Singapore
- Switzerland
- Hong Kong
- Oman
- Saudi Arabia
- Brunei
- Australia

120,647 AT TOP 100 UNIVERSITIES

1.9% YEAR ON YEAR INCREASE

274,261 AT TOP 500 UNIVERSITIES

3.6% YEAR ON YEAR INCREASE
<table>
<thead>
<tr>
<th></th>
<th>INTERNATIONAL FACULTY</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>AMERICAN UNIVERSITY OF SHARJAH</td>
</tr>
<tr>
<td>2</td>
<td>AMERICAN UNIVERSITY IN DUBAI</td>
</tr>
<tr>
<td>3</td>
<td>ABU DHABI UNIVERSITY</td>
</tr>
<tr>
<td>4</td>
<td>KING ABDULLAH UNIVERSITY OF SCIENCE &amp; TECHNOLOGY (KAUST)</td>
</tr>
<tr>
<td>5</td>
<td>AJMAN UNIVERSITY</td>
</tr>
<tr>
<td>6</td>
<td>UNIVERSITY OF SHARJAH</td>
</tr>
<tr>
<td>7</td>
<td>ZAYED UNIVERSITY</td>
</tr>
<tr>
<td>8</td>
<td>PRINCE MOHAMMAD BIN FAHD UNIVERSITY</td>
</tr>
<tr>
<td>9</td>
<td>KHALIFA UNIVERSITY</td>
</tr>
<tr>
<td>10</td>
<td>UNIVERSITY OF MACAU</td>
</tr>
<tr>
<td>11</td>
<td>UNITED ARAB EMIRATES UNIVERSITY</td>
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<tr>
<td>12</td>
<td>MACAU UNIVERSITY OF SCIENCE AND TECHNOLOGY</td>
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<tr>
<td>13</td>
<td>QATAR UNIVERSITY</td>
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<tr>
<td>14</td>
<td>CITY UNIVERSITY OF HONG KONG</td>
</tr>
<tr>
<td>15</td>
<td>ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)</td>
</tr>
</tbody>
</table>
776,767
AT Top 100 Universities
6.1%
YEAR ON YEAR INCREASE

2,127,589
AT Top 500 Universities
5.6%
YEAR ON YEAR INCREASE

INTERNATIONAL STUDENTS

776,767
IN Top 100

2,127,589
IN Top 500

INTERNATIONAL STUDENTS - TOP 10 LOCATIONS

YEAR ON YEAR INCREASE

6.1%

5.6%

INTERNATIONAL STUDENTS RATIO - TOP 500 INSTITUTIONS

The histogram presents the number of institutions falling into each ratio range.
<table>
<thead>
<tr>
<th>Rank</th>
<th>University Name</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LONDON BUSINESS SCHOOL</td>
<td>UK</td>
</tr>
<tr>
<td>2</td>
<td>MACAU UNIVERSITY OF SCIENCE AND TECHNOLOGY</td>
<td>MO</td>
</tr>
<tr>
<td>3</td>
<td>AJMAN UNIVERSITY</td>
<td>AE</td>
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<tr>
<td>4</td>
<td>AMERICAN UNIVERSITY IN DUBAI</td>
<td>AE</td>
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<tr>
<td>5</td>
<td>IE UNIVERSITY</td>
<td>ES</td>
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<tr>
<td>6</td>
<td>AMERICAN UNIVERSITY OF SHARJAH</td>
<td>AE</td>
</tr>
<tr>
<td>7</td>
<td>LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE (LSE)</td>
<td>UK</td>
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<tr>
<td>8</td>
<td>UNIVERSITÖ DELLA SVIZZERA ITALIANA</td>
<td>CH</td>
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<tr>
<td>9</td>
<td>CRANFIELD UNIVERSITY</td>
<td>UK</td>
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<tr>
<td>10</td>
<td>KING ABDULLAH UNIVERSITY OF SCIENCE &amp; TECHNOLOGY (KAUST)</td>
<td>SA</td>
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<td>ABU DHABI UNIVERSITY</td>
<td>AE</td>
</tr>
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<td>12</td>
<td>ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)</td>
<td>CH</td>
</tr>
<tr>
<td>13</td>
<td>THE UNIVERSITY OF SYDNEY</td>
<td>AU</td>
</tr>
<tr>
<td>14</td>
<td>IMPERIAL COLLEGE LONDON</td>
<td>UK</td>
</tr>
<tr>
<td>15</td>
<td>UNIVERSITY OF SHARJAH</td>
<td>AE</td>
</tr>
</tbody>
</table>
TO ACHIEVE THE TOP SCORE IN FACULTY:STUDENT RATIO, HOW MANY STUDENTS SHOULD AN INSTITUTION HAVE PER FACULTY MEMBER?

- AROUND 1
- AROUND 2
- AROUND 3
FACULTY STUDENT RATIO

- What does it take to get top marks?

- University of Copenhagen: 4
- University of Cambridge: 3.4
- Vanderbilt University: 3
- Wake Forest University: 3.6
- CALTECH: 2.1
Regional Comparisons
Spain, France and Italy

QS World University Rankings
Regional Rivals - Strengths and Weaknesses
Average Scores of Top 200 Institutions
Spain | Italy | France

Gaps by Indicator (Average Scores)

- Academic Reputation
- Employer Reputation
- Faculty Student
- Citations per Faculty
- International Faculty
- International Students

Number of Institutions Considered — # of institutions in Top 200 / Total Ranked (Overall Rank)

Spain: 2 / 26
Italy: 3 / 36
France: 5 / 28
QS World University Rankings
Regional Rivals - Strengths and Weaknesses
Average Scores of Top 200 Institutions
United States | United Kingdom

Gaps by Indicator (Average Scores)
- Academic Reputation: 62.8 vs. 73.9
- Employer Reputation: 62.7 vs. 72.3
- Faculty Student: 65.3 vs. 67.9
- Citations per Faculty: 53.3 vs. 56.3
- International Faculty: 55.0 vs. 50.0
- International Students: 78.8 vs. 77.0

Number of Institutions Considered — # of Institution in Top 200 / Total Ranked (Overall Rank)
- United States: 45 / 151
- United Kingdom: 26 / 84

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BRIC: A Snapshot

QS World University Rankings
Regional Rivals - Strengths and Weaknesses
Average Scores of Top 200 Institutions
Brazil | Russia | India | China (mainland)

Gaps by Indicator (Average Scores)

- Academic Reputation
- Employer Reputation
- Faculty Student
- Citations per Faculty
- International Faculty
- International Students

Number of Institutions Considered —— # of institution in Top 200 / Total Ranked (Overall Rank)

- Brazil: 1 / 14
- Russia: 1 / 28
- India: 3 / 21
- China (mainland): 7 / 51
East-Asia: A Snapshot
WHICH LOCATION IS MOST IMPROVED IN THIS YEAR’S RANKINGS?

· INDONESIA
· MALAYSIA
· THAILAND
Best Improvement

Top 3 Improvers:
- Malaysia
- Russia
- Austria