

ShanghaiRanking's University Subject Ranking in Hospitality and Tourism Management: A Critical Review

By

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Introduction

On 26th of June, 2019, ShanghaiRanking, also known as the Academic Ranking of World Universities (ARWU), released its 2019 Global University ranking of academic subjects. Hospitality and Tourism Management, for the third year, was ranked as a university subject and a total of 298 (claimed by ShanghaiRanking as 300) were ranked in this subject area based on available data. The ranking results can be checked out from the ShanghaiRanking's website (www.shanghairanking.com).

University ranking in general is not new. The Times Higher Education (THE) World University Rankings, the Qqacquarelli Symonds (QS) World University Rankings, the Academic Ranking of World Universities (ARWU; also known as ShanghaiRanking), and the US News World University Rankings, are the four mostly recognised world university rankings. While overall university ranking has been the intent of these ranking exercises since their start, rankings conducted at subject level have been relatively recent. So far, two of the four world university rankings, i.e., the QS ranking and the ShanghaiRanking, featured hospitality and tourism /leisure management as a university subject in their subject level rankings. Both started in 2017 and have published 3 rounds of annual ranking results.

Academic ranking exercises including those at different levels and aspects (e.g., research journal ranking, teaching ranking, research quality ranking etc.) represent a significant institutional scrutiny force that will forge the pathway of a certain academic field's development (Kuhn, 2012). As a relatively young academic field, hospitality and tourism management has attracted a huge number of students and faculty in universities. In China alone, it is believed that over 1000 universities are offering hospitality and tourism study programs and for the time being, around 500,000 students are studying hospitality and tourism or related subjects (e.g., event management) in the country's tertiary higher learning system (China Tourism Education Association, 2018). The fast development of tourism as an industry and its industry scale in many national economies have made tourism as a prominent field of study in the world's tertiary education system. This offers explanations why hospitality and tourism management is featured in two of the four global university ranking as an academic subject.

This paper aims to offer a critical review and analysis of the ShanghaiRanking's university subject ranking in hospitality and tourism management. I claim that while QS ranking in Hospitality and Leisure Management is referred to in the discussion, the focus of this paper is mainly on the ShanghaiRanking's exercise and ranking results in the subject area.

The Ranking Methodology

Any ranking may be questioned by its methodology for overstating or overweighing some criteria while underestimating some others. ShanghaiRanking published their methodology online. For the

subject ranking, the four indicators used are publications (PUB), research impact as demonstrated by Category Normalised Citation Impact (CNCI), international collaboration (IC), and Award (AWARD). PUB refers to the number of the articles authored by an institution in an academic subject field in the evaluation period. The 2018 ShanghaiRanking took 2012-2016 as the collection period while the 2019 ranking adopted the period of 2013-2017. In the subject of Hospitality and Tourism Management, the number of publication threshold is set as 25 for both 2018 and 2019. While the 2018 rankings had 200 universities ranked, the 2019 rankings included 298 (claimed as 300 on the website). It is however not clear how strictly/flexibly the ranking body hold the threshold value of 25 for inclusions of any universities. One question is, if 298 universities can pass the threshold to be listed in 2019, they may probably also be qualified for inclusion in the 2018 round as there is only one year shift in the publication collection. If the threshold is held strictly, the increase of nearly 100 universities in the list may mean that more universities are publishing more articles in this subject area, indicating a boom of publications in the field.

Shanghai Ranking has been using the Web of Science and its Incites database in locating publications. Therefore, the coverages and selection preferences of the Web of Science and Incites databases may play a certain role in the number of publications collected. Personally, I think Web of Science may cover the publications in other sciences areas better than the social sciences subjects. As a result, social sciences subject may be disadvantaged a bit comparing to subjects in other sciences. However, within the subject of Hospitality and Tourism Management, as long as the same database source is resorted to, methodologically, there will not be unfair treatment among the universities ranked.

CNCI shows the ratio of the citations of papers published by an institution in the subject area to the average citations of papers in the same category. A CNCI value of 1 represent the world-average citation impact. The data are collected from InCites database.

IC refers to international collaborations and is counted as the number of the publications with authors from at least two different countries.

The indicator of TOP is the number of publications in top journals in the academic subject. The top journals are selected based on a survey sent to some academics in the field. In the subject of Hospitality and Tourism Management, six journals are selected to be top journals in the subject based on votes of a number of academics in the field. These journals are: *Annals of Tourism Research*, *International Journal of Hospitality Management*, *International Journal of Contemporary Hospitality Management*, *Tourism Management*, *Journal of Travel Research*, *Journal of Hospitality and Tourism Research*. There are 7 survey participants listed on the website, 4 from Hong Kong, 2 from the United States, and one from Canada.

The only applicable Award in the AWARD indicator in Hospitality and Tourism Management is the UNWTO Ulysses Award. The score is dependent on the time of winning the award and number of winners in the Award. Currently the weight is 100% if the award was in 2011-2017, and 75% in 2001-2010, 50% in 1991-2000, and 25 in 1981-1990.

How the scores of the indicators were calculated does not seem to be straightforward. ShanghaiRanking states in its website:

“Different weights are allocated to the indicators for different subjects, as listed below. For each indicator, institutions are calculated as a percentage of the top scored institution, then the square root of the percentage is multiplied by the allocated weight. A final score is arrived by adding scores for all indicators and the final score is ranked in descending order.”

The weights for the five indicators in Hospitality and Tourism Management are 150 for PUB, 50 for CNCI, 10 for IC, 100 for TOP, and 20 for AWARD. By checking the scores of the indicators in the list, it was found that PUB, CNCI, and TOP have scores between 0-100, which would justify the claim “for each indicator, institutions are calculated as a percentage of the top scored institution...”. However, in IC, there is no university scoring 100. This questions the general application of the above claim. If the claim is true, there should be a highest performance institution as the benchmark and its score should be 100.

Another confusion is with CNCI. In the methodology statements, the calculation of CNCI scores is described as:

“In calculating the score of CNCI, the maximum value of CNCI in a subject is set as the lower value of: (1) the twice of the average CNCI for all institutions in this subject; (2) the maximum of the CNCI for all institutions in this subject. Institutions’ scores on CNCI are calculated as the proportion of their CNCI to the maximum value. If an institution’s CNCI is higher than the maximum value, its score on CNCI will be assigned as 100.”

This calculation is understandable but it conflicts with the aforementioned way of calculating the indicator scores: “for each indicator, institutions are calculated as a percentage of the top scored institution...”.

When getting the total score, the squared root calculation of the first quotation above is also confusing. Following this way, the calculation of the total score seems to follow the formula below:

Total score = Square root of (PUB)*150 + Square root of (CNCI)*50 + Square root of (IC)*10 + Square root of (TOP)* 100 + Square root of (AWARD) * 20.

Apparently, applying this formula will not get the correct scores in the Total Score column of the first 50 universities in the list. Instead, I found the correct calculation of the total score is as simple as: Total score = PUB*150%+CNCI*50/100+IC*10/100 + TOP*100/100 + AWARD*20/100

Some Critical Thoughts

- ShanghaiRankings only rely on the publications in the selected Web of Science and InCites databases and their derived indicators. As such, the ranking only focuses on the research performances of the universities included; teaching, which to a certain extent is part of the raison d'être of a university, is completely left out in this ranking exercise. As a consequence, ShanghaiRanking favours research-oriented universities over teaching focussed universities and institutions. This is why inconsistencies can be observed between the ShanghaiRanking's list of universities in Hospitality and Tourism Management and QS's subject ranking in Hospitality and Leisure Management. QS adopts more perception-based measures in its ranking exercises. Its four indicators are: 1) academic reputation; 2) employer reputation; 3) research citations per paper; 4) H-index. Both academic reputation and employer reputation are generated based on surveys of relevant stakeholders in the subject areas. The weightings were very much dominated by reputation perceptions. In 2018, the weightings for Hospitality and Leisure Management are 80% for academic reputation, 15% for employer reputation, and 5% for citations per paper, while in 2019 these weightings changed to 45% for academic reputation, 50% for employer reputation, and 5% for citations per paper. By increasing the weighting of the employer evaluation, the QS ranking is believed to value teaching performance more than research performance. Research is only weighted in 5% by the

indicator of citations per paper. This explains well why in the QS lists over the 3 years from 2017-2019, more teaching-focussed universities/institutions were found in the top ranks.

- ShanghaiRanking takes the number of research article publications as the core part of the ranking inputs and thus would favour universities hosting large research groups in hospitality and tourism and independent schools of hospitality and tourism management. It is not surprising to see such type of universities enjoy higher positions in the ranking list.
- Universities from mainland China are on a rise over the years. In 2017, 100 universities were ranked and only one mainland Chinese university (Sun Yat-sen University, ranked 17th) entered the list. In 2018, three mainland Chinese universities were listed; Sun Yat-sen University jumped to the 10th while Zhejiang University and Peking University entered into the 76-100 Zone and the 150-200 Zone respectively, among the 200 universities ranked. In 2019, four more mainland Chinese universities joined the ranking list when the total number of the ranked universities expanded to 298. They are: Sun Yat-sen University (8th), Zhejiang University (51-75), Harbin Institute of Technology (76-100), Beijing Union University (101-150), Nanjing University (101-150), Peking University (151-200), and Shanghai University of Sport (201-300). My personal speculation is as China is heavily funding its universities to strive for world class ranking and the funding resources are relatively rich in Chinese universities, more research outputs in hospitality and tourism management will be produced by universities in China. The ranking will see even more mainland China-based universities in the list in future.
- Like any other ranking exercises, even though ShanghaiRanking is relatively transparent in its stated methodology, there is no way that the whole data collection and calculation process can be made any more transparent. As such, the middle steps of the ranking process are mostly in the darkness and good faith needs to put into the ranking results.

The Exact Rank Positions

ShanghaiRanking only provided the exact ranking order for the top 50 universities in the list. For the rest of the universities in the list, they are grouped in different zones (e.g., 51-75; 201-300) and listed alphabetically in their respective zones. This makes it difficult for individual institution outside the top 50 accolades group to know exactly what its rank is. Following the same formula to rank the top 50 universities in the list ($\text{Total score} = \text{PUB} * 150\% + \text{CNCI} * 50/100 + \text{IC} * 10/100 + \text{TOP} * 100/100 + \text{AWARD} * 20/100$), one can easily get the total score for every university listed. Using the formula, I calculated the total scores for all the listed universities and obtained the exact rank for every institution listed. Table 1 below lists all the 298 universities in the 2019 ranking and Table 2 below gives exact rank information for the 200 universities in the 2018 ranking. Interested readers can see the moving-ups and moving-downs of specific institutions by comparing the two tables.

References

Kuhn, T.S. (2012). *The structure of scientific revolutions* (4th ed.). Chicago, IL: The University of Chicago Press.

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Beijing: China Tourism Press.

Table 1: ShanghaiRanking's University Subject Ranking in Hospitality and Tourism Management 2019

Rank1	Rank2	Institution	Country/Region	Total Score1	PUB	CNCI	IC	TOP	AWARD	Total Score2
1	1	The Hong Kong Polytechnic University	Hong Kong	325.7	100	96.2	76.3	100	100	325.73
2	2	Griffith University	Australia	255.8	94.4	75.6	83.1	68.1	0	255.81
3	3	Pennsylvania State University - University Park	USA	222.4	73.9	82.6	62	64	0	222.35
4	4	The University of Queensland	Australia	221.8	80.8	79.3	69.8	53.9	0	221.73
5	5	University of Central Florida	USA	207.1	62.1	91.2	61.5	62.2	0	207.1
6	6	University of Surrey	UK	206.8	51.4	98.6	94.9	53.5	86.6	206.71
7	7	Purdue University - West Lafayette	USA	205.6	61.3	86.8	62.9	64	0	205.64
8	8	Sun Yat-sen University	China	203.6	56.5	96.7	84.1	62.2	0	203.71
9	9	Temple University	USA	197.2	60.4	88.1	73.6	55.2	0	197.21
10	10	Bournemouth University	UK	195.2	58.7	100	71.1	50	0	195.16
11	11	Kyung Hee University	Korea	189.4	56.3	86.2	88.2	53.1	0	189.47
12	12	Sejong University	Korea	186.6	51	100	82.4	51.8	0	186.54
13	13	Virginia Polytechnic Institute and State University	USA	185.7	50.6	100	71.5	52.7	0	185.75
14	14	Washington State University	USA	181.1	48	100	82.5	50.9	0	181.15
15	15	University of South Carolina - Columbia	USA	179.5	54.9	90.7	65.2	45.2	0	179.42
16	16	Florida State University	USA	177.8	57	75.6	72.1	47.2	0	177.71
17	17	University of Florida	USA	177.5	55.5	83	60.5	46.7	0	177.5
18	18	University of Johannesburg	South Africa	172.6	54.9	85.3	88	38.7	0	172.5
19	19	University of Waterloo	Canada	171.8	53.1	82.4	75.7	23.4	100	171.82
20	20	University of Nevada-Las Vegas	USA	164.2	43.9	100	51.5	43.2	0	164.2
21	21	University of South Australia	Australia	162.1	56.1	67.8	77.1	36.3	0	162.06
22	22	Texas A&M University	USA	160	53.5	70.6	62.8	38.1	0	159.93
23	23	The University of Waikato	New Zealand	159.1	52.9	69.7	80.1	36.9	0	159.11
24	24	University of Otago	New Zealand	158.8	55.7	71.9	76.6	31.6	0	158.76
25	25	University of Massachusetts Amherst	USA	153.6	45.4	80.3	72.3	38.1	0	153.58
26	26	Oxford Brookes University	UK	152.3	34.2	80.5	76.9	35.7	86.6	152.26
27	27	Monash University	Australia	150.3	50.6	75.2	67.1	30.2	0	150.41

28	28	University of Houston	USA	150.1	39.8	81.9	58.3	43.7	0	150.18
29	29	Loughborough University	UK	148.6	66.4	71	68.2	6.7	0	148.62
30	30	Institute for Tourism Studies	Macao	147.7	41.7	82.3	59.5	38.1	0	147.75
31	31	James Cook University	Australia	147.6	50.6	69.5	76.2	29.4	0	147.67
32	32	The University of New South Wales	Australia	146.1	48	65.3	71.6	34.4	0	146.21
32	33	University of Strathclyde	UK	146.1	35.5	71.4	78.2	29.4	100	146.17
34	34	Southern Cross University	Australia	146	46.6	79.3	71.3	29.4	0	146.08
35	35	Universidad de Las Palmas de Gran Canaria	Spain	145.8	36.7	91.8	55.2	39.3	0	145.77
36	36	Michigan State University	USA	145.1	48.4	66.1	63.6	33	0	145.01
37	37	Victoria University	Australia	143.8	62.1	53.3	74.2	16.5	0	143.72
38	38	University of Illinois at Urbana-Champaign	USA	142.8	49.3	73.2	61.6	26.1	0	142.81
39	39	University of Alicante	Spain	141.4	33.9	99.5	57.8	35	0	141.38
40	40	Middlesex University	UK	140.9	35.5	94.3	82	32.3	0	140.9
41	41	Iowa State University	USA	138.7	39.5	81.3	71.3	31.6	0	138.63
42	42	Leeds Metropolitan University	UK	137.5	53.9	66.3	56.3	17.8	0	137.43
43	43	Oklahoma State University	USA	136.7	37	76.1	75	35.7	0	136.75
43	44	University of Technology Sydney	Australia	136.7	53.9	51.3	67.7	23.4	0	136.67
45	45	La Trobe University	Australia	135.8	48.8	63.2	47.5	26.1	0	135.65
46	46	Curtin University	Australia	133.9	45.4	71.1	78.9	22.4	0	133.94
47	47	University of Ottawa	Canada	133.2	53.5	69.8	64.2	11.7	0	133.27
48	48	Arizona State University	USA	132.9	42.2	64.3	65.8	30.9	0	132.93
48	49	Deakin University	Australia	132.9	43.9	73.9	67.2	23.4	0	132.92
50	50	Ben-Gurion University of the Negev	Israel	131.8	32.9	82	70.5	34.4	0	131.8
51-75	51	Zhejiang University	China		31.9	91.1	95.1	28.6	0	131.51
51-75	52	University of Birmingham	UK		48	82.2	65.1	11.7	0	131.31
51-75	53	University of Valencia	Spain		32.6	67.9	69.5	21.3	100	131.1
51-75	54	The University of Calgary	Canada		42.2	53.3	71	15.1	86.6	129.47
51-75	55	National Cheng Kung University	Taiwan		30.9	98.1	73.3	26.1	0	128.83
51-75	56	Cardiff Metropolitan University	UK		43.4	70	62.8	22.4	0	128.78
51-75	57	University of Wageningen	Netherlands		36.1	84	81.8	24.3	0	128.63
51-75	58	The University of Georgia	USA		41.9	69.5	72.5	23.4	0	128.25

51-75	59	University of Alberta	Canada		52.9	62	59.8	11.7	0	128.03
51-75	60	Ming Chuan University	Taiwan		35.5	71.6	53.4	32.3	0	126.69
51-75	61	National Chiayi University	Taiwan		34.2	74.7	46.8	33	0	126.33
51-75	62	The Ohio State University - Columbus	USA		36.1	81	50.6	26.1	0	125.81
51-75	63	Sheffield Hallam University	UK		47.5	59.3	68.3	17.8	0	125.53
51-75	64	Manchester Metropolitan University	UK		45.6	63.7	56.6	19.1	0	125.01
51-75	65	University of Canterbury	New Zealand		39.2	74.2	86.5	20.2	0	124.75
51-75	66	Hanyang University	Korea		29.5	99.1	70.9	23.4	0	124.29
51-75	67	Macau University of Science and Technology	Macao		29.5	94.7	70.9	25.2	0	123.89
51-75	68	University of Science, Malaysia	Malaysia		31.2	94.2	74.3	22.4	0	123.73
51-75	69	AUT University	Australia		41.9	62.4	83.7	21.3	0	123.72
51-75	70	University of Tromso	Norway		39.8	70.6	72	21.3	0	123.5
51-75	71	East Carolina University	USA		34.9	75.2	50.3	27.8	0	122.78
51-75	72	University of Macau	Macao		31.6	79.2	55.5	29.4	0	121.95
51-75	73	Indiana University Bloomington	USA		43.4	61.6	58.3	20.2	0	121.93
51-75	74	Universidade Do Algarve	Portugal		34.9	74.3	71.2	25.2	0	121.82
51-75	75	University of Ljubljana	Slovenia		32.3	79.1	85.9	25.2	0	121.79
76-100	76	Linnaeus University	Sweden		36.7	78	81.7	19.1	0	121.32
76-100	77	University of Stavanger	Norway		32.9	81.7	67	24.3	0	121.2
76-100	78	University of British Columbia	Canada		44.9	71	65.7	11.7	0	121.12
76-100	79	University of the Balearic Islands	Spain		34.2	75.2	61	26.1	0	121.1
76-100	80	Eastern Mediterranean University	Turkey		25.1	100	40.4	29.4	0	121.09
76-100	81	Queensland University of Technology	Australia		33.6	76.4	78.3	24.3	0	120.73
76-100	82	Pusan National University	Korea		31.2	86.9	74.3	22.4	0	120.08
76-100	83	Clemson University	USA		38.1	67.1	56.3	22.4	0	118.73
76-100	84	University of Wollongong	Australia		35.8	69.8	74.9	22.4	0	118.49

76-100	85	University of Central Lancashire	UK		49.1	59.5	52.6	9.5	0	118.16
76-100	86	The George Washington University	USA		25.9	67.4	75.6	20.2	86.6	117.63
76-100	87	Cornell University	USA		39	61.5	58.1	22.4	0	117.46
76-100	88	Texas Tech University	USA		37	67.1	45.4	23.4	0	116.99
76-100	89	University of Nottingham	UK		30.5	80.3	70.3	23.4	0	116.33
76-100	90	Harbin Institute of Technology	China		25.1	100	63.8	21.3	0	115.33
76-100	91	University of Stirling	UK		49.3	52.5	55.3	9.5	0	115.23
76-100	92	University of Westminster	UK		32.3	67.9	66.6	26.1	0	115.16
76-100	93	Dong-A University	Korea		25.9	100	70.4	19.1	0	114.99
76-100	94	National Taiwan Normal University	Taiwan		32.6	71.8	56	24.3	0	114.7
76-100	95	University of Gothenburg	Sweden		39.2	74.7	68.3	11.7	0	114.68
76-100	96	University of Malaga	Spain		27.2	90.7	32.3	25.2	0	114.58
76-100	97	California State Polytechnic University-Pomona	USA		31.2	79.3	56.1	22.4	0	114.46
76-100	98	University of Exeter	UK		34.9	74.1	69.7	17.8	0	114.17
76-100	99	Copenhagen Business School	Denmark		25.1	92.3	90.3	21.3	0	114.13
76-100	100	University of Oulu	Finland		38.1	70.7	80.8	13.5	0	114.08
101-150	101	Brock University	Canada		41.4	58.3	61.2	16.5	0	113.87
101-150	102	Beijing Union University	China		26.8	77	98.3	25.2	0	113.73
101-150	103	Auburn University	USA		32.3	75	52	22.4	0	113.55
101-150	104	University of Malaya	Malaysia		28.3	84.2	73.7	21.3	0	113.22

101-150	105	University of Hawaii at Manoa	USA		28.3	56.4	50.5	20.2	86.6	113.22
101-150	106	The University of Newcastle, Australia	Australia		31.6	74.3	73.5	21.3	0	113.2
101-150	107	KU Leuven	Belgium		39.8	68.2	75.3	11.7	0	113.03
101-150	108	University of Denver	USA		26.3	87.3	63.7	23.4	0	112.87
101-150	109	University of Innsbruck	Austria		27.6	81.1	66.3	23.4	0	111.98
101-150	110	University of Minnesota, Twin Cities	USA		43.2	64.9	51.1	9.5	0	111.86
101-150	111	College of Charleston	USA		26.8	81.6	65.6	24.3	0	111.86
101-150	112	University of Toronto	Canada		42.9	65.1	47.2	9.5	0	111.12
101-150	113	Nanjing University	China		23.3	92.7	72.1	22.4	0	110.91
101-150	114	University of Wolverhampton	UK		31.6	82	60	16.5	0	110.9
101-150	115	University of Missouri - Columbia	USA		30.5	71.8	64.2	22.4	0	110.47
101-150	116	The University of Edinburgh	UK		40.9	57.2	52.6	15.1	0	110.31
101-150	117	The University of Western Australia	Australia		33.6	72.6	70.7	16.5	0	110.27
101-150	118	University of Kent	UK		26.8	96.9	62.8	15.1	0	110.03
101-150	119	Edith Cowan University	Australia		36.1	61.8	71.6	17.8	0	110.01
101-150	120	Norwegian School of Sport Sciences	Norway		43.9	73	74.7	0	0	109.82
101-150	121	University of Lisbon	Portugal		36.7	61.3	73.1	16.5	0	109.51
101-150	122	University of Lincoln	UK		30.5	81.6	76	15.1	0	109.25
101-150	123	The Chinese University of Hong Kong	Hong Kong		28.7	76.1	68.3	21.3	0	109.23
101-150	124	University of Bologna	Italy		28.3	74.7	40	25.2	0	109

101-150	125	University of Applied Sciences and Arts Western Switzerland	Switzerland		23.3	80.3	87	25.2	0	109
101-150	126	Instituto Universitario de Lisboa	Portugal		25.5	90	52.5	20.2	0	108.7
101-150	127	VU University Amsterdam	Netherlands		32.6	78.3	89.2	11.7	0	108.67
101-150	128	National Dong Hwa University	Taiwan		23.3	94.3	87	17.8	0	108.6
101-150	129	University of Amsterdam	Netherlands		25.5	89.5	76.9	17.8	0	108.49
101-150	130	University of Girona	Spain		28.3	76.2	53.6	22.4	0	108.31
101-150	131	Autonomous University of Madrid	Spain		24.2	88.7	72.5	20.2	0	108.1
101-150	132	University of Sao Paulo	Brazil		44.2	35.4	98.6	13.5	0	107.36
101-150	133	University of Seville	Spain		25.9	84.9	58.6	20.2	0	107.36
101-150	134	University of Delaware	USA		29.5	78	48.6	19.1	0	107.21
101-150	135	University of Bath	UK		37.5	67.9	73.9	9.5	0	107.09
101-150	136	Newcastle University	UK		25.1	89.2	67	17.8	0	106.75
101-150	137	RMIT University	Australia		35.5	62.5	57.1	16.5	0	106.71
101-150	138	University of Canberra	Australia		31.2	80.5	79.4	11.7	0	106.69
101-150	139	National Kaohsiung University of Hospitality & Tourism	Taiwan		26.8	73.3	59.8	23.4	0	106.23
101-150	140	Swinburne University of Technology	Australia		32.3	60.4	73.6	20.2	0	106.21
101-150	141	University of Barcelona	Spain		27.9	75.1	65.3	20.2	0	106.13
101-150	142	University of Bedfordshire	UK		32.6	69	72.8	15.1	0	105.78
101-150	143	North Carolina State University - Raleigh	USA		31.9	67.9	47.6	19.1	0	105.66

101-150	144	Massey University	New Zealand		33.6	58.9	79.8	17.8	0	105.63
101-150	145	Free University of Bozen-Bolzano	Italy		27.9	73.5	76.9	19.1	0	105.39
101-150	146	Cardiff University	UK		30.9	66.9	56.8	19.1	0	104.58
101-150	147	Boston University	USA		26.3	75.5	47.1	22.4	0	104.31
101-150	148	University of Sassari	Italy		26.3	77.2	81.5	17.8	0	104
101-150	149	Plymouth University	UK		27.6	74.6	71.2	17.8	0	103.62
101-150	150	University of Hull	UK		36.7	56.4	67.6	13.5	0	103.51
151-200	151	University of Tasmania	Australia		33.3	65	59	15.1	0	103.45
151-200	152	Akdeniz University	Turkey		26.3	80.1	47.1	19.1	0	103.31
151-200	153	Bangor University	UK		34.9	67.4	75.5	9.5	0	103.1
151-200	154	Seoul National University	Korea		31.2	62.2	85.8	16.5	0	102.98
151-200	155	Northumbria University	UK		30.2	70.8	83.9	13.5	0	102.59
151-200	156	Colorado State University	USA		27.9	75.3	65.3	16.5	0	102.53
151-200	157	Swansea University	UK		27.6	75	66.3	16.5	0	102.03
151-200	158	University of Groningen	Netherlands		26.8	76	70.8	16.5	0	101.78
151-200	159	University of Brighton	UK		48	50.5	44.8	0	0	101.73
151-200	160	University of Southern Denmark	Denmark		35.5	62.4	55.3	11.7	0	101.68
151-200	161	Peking University	China		23.7	78.7	100	16.5	0	101.4
151-200	162	University of Eastern Finland	Finland		25.1	85.6	57.1	15.1	0	101.26
151-200	163	University of Cagliari	Italy		23.3	82.7	57.5	19.1	0	101.15

151-200	164	University of Tennessee - Knoxville	USA		36.1	53.8	31.4	16.5	0	100.69
151-200	165	Taylor's University	Malaysia		23.7	87.3	79.8	13.5	0	100.68
151-200	166	Wilfrid Laurier University	Canada		30.2	69.6	69.2	13.5	0	100.52
151-200	167	Federation University Australia	Australia		35.8	58.3	58.4	11.7	0	100.39
151-200	168	Fu Jen Catholic University	Taiwan		23.3	77.5	37.7	22.4	0	99.87
151-200	169	The University of Sheffield	UK		30.5	62.4	64.2	16.5	0	99.87
151-200	170	University of Thessaly	Greece		24.2	83.7	93.6	11.7	0	99.21
151-200	171	Western University	Canada		36.7	58.6	53.5	9.5	0	99.2
151-200	172	University Rovira i Virgili	Spain		29.8	74.2	38	13.5	0	99.1
151-200	173	University of Portsmouth	UK		31.2	63.6	53.7	15.1	0	99.07
151-200	174	Ghent University	Belgium		23.3	95.3	68.8	9.5	0	98.98
151-200	175	University of Guelph	Canada		33.3	54.9	50.5	16.5	0	98.95
151-200	176	Mid-Sweden University	Sweden		23.7	87.1	76.9	11.7	0	98.49
151-200	177	Nanyang Technological University	Singapore		32.9	60.8	68.8	11.7	0	98.33
151-200	178	Hong Kong Baptist University	Hong Kong		25.9	69	82.8	16.5	0	98.13
151-200	179	Umea University	Sweden		30.2	78.5	67.1	6.7	0	97.96
151-200	180	University of South Florida	USA		23.3	82	53.3	16.5	0	97.78
151-200	181	North-West University	South Africa		27.2	59.7	64.6	20.2	0	97.31
151-200	182	Lund University	Sweden		26.8	71.6	78	13.5	0	97.3
151-200	183	National Chi Nan University	Taiwan		27.2	55.4	52.7	23.4	0	97.17

151-200	184	University of Leeds	UK		29.1	65.7	55	15.1	0	97.1
151-200	185	Coventry University	UK		28.7	66.2	55.8	15.1	0	96.83
151-200	186	Ryerson University	Canada		23.3	80.1	65.2	15.1	0	96.62
151-200	187	University College of Southeast Norway	Norway		29.8	59.5	86.6	13.5	0	96.61
151-200	188	University of Gloucestershire	UK		35.8	55.8	31.6	11.7	0	96.46
151-200	189	Victoria University of Wellington	New Zealand		31.2	56.7	74.3	13.5	0	96.08
151-200	190	University of Arkansas at Fayetteville	USA		23.3	72.4	84.2	16.5	0	96.07
151-200	191	The University of Alabama - Tuscaloosa	USA		34.2	63	36.2	9.5	0	95.92
151-200	192	York University	Canada		35.2	57.8	45.5	9.5	0	95.75
151-200	193	Queen's University	Canada		32.3	78.2	78.5	0	0	95.4
151-200	194	Flinders University	Australia		29.1	67	65.1	11.7	0	95.36
151-200	195	Aalborg University	Denmark		32.3	55.3	75.3	11.7	0	95.33
151-200	196	Ohio University	USA		23.7	75	70.7	15.1	0	95.22
151-200	197	The University of Auckland	New Zealand		31.2	83.6	62.8	0	0	94.88
151-200	198	University of Sydney	Australia		31.2	63.1	66.8	9.5	0	94.53
151-200	199	Durham University	UK		31.9	58.5	57.2	11.7	0	94.52
201-300	200	University of Granada	Spain		26.8	62.3	53.5	17.8	0	94.5
151-200	201	University of Lausanne	Switzerland		26.8	75.9	68.2	9.5	0	94.47
201-300	202	Murdoch University	Australia		27.9	65	65.3	13.5	0	94.38

201-300	203	University of Iceland	Iceland		29.8	56	81.4	13.5	0	94.34
201-300	204	Brunel University	UK		40.3	52.4	76.4	0	0	94.29
201-300	205	George Mason University	USA		26.8	70.9	50.1	13.5	0	94.16
201-300	206	University of Michigan-Ann Arbor	USA		38.1	48.5	47.9	6.7	0	92.89
201-300	207	University of North Texas	USA		28.7	65.1	55.8	11.7	0	92.88
201-300	208	Kent State University	USA		30.9	50.7	46.4	16.5	0	92.84
201-300	209	West Virginia University	USA		30.5	64.3	52.4	9.5	0	92.64
201-300	210	Shanghai University of Sport	China		33.9	67	81.8	0	0	92.53
201-300	211	The University of Hong Kong	Hong Kong		28.3	69.3	85.7	6.7	0	92.37
201-300	212	Ball State University	USA		27.6	54.5	66.3	16.5	0	91.78
201-300	213	Nord University	Norway		25.9	70.4	80.5	9.5	0	91.6
201-300	214	University of Sunderland	UK		24.6	66.8	61.6	15.1	0	91.56
201-300	215	The University of the South Pacific	Fiji		25.1	61.3	78.2	15.1	0	91.22
201-300	216	University of Zagreb	Croatia		23.7	65.3	76.9	15.1	0	90.99
201-300	217	University of Western Sydney	Australia		38.1	53.2	70.3	0	0	90.78
201-300	218	University of Aveiro	Portugal		27.2	68.1	41.7	11.7	0	90.72
201-300	219	Simon Fraser University	Canada		27.9	55.3	60.1	15.1	0	90.61
201-300	220	University College Dublin	Ireland		24.2	71.7	88.8	9.5	0	90.53
201-300	221	University of North Carolina at Greensboro	USA		27.6	66.5	58.1	9.5	0	89.96

201-300	222	California State University-Fullerton	USA		24.6	77.5	71.2	6.7	0	89.47
201-300	223	University of Copenhagen	Denmark		26.8	71.5	68.2	6.7	0	89.47
201-300	224	San Diego State University	USA		23.7	68.8	56.4	13.5	0	89.09
201-300	225	University of Limerick	Ireland		29.1	74	83.5	0	0	89
201-300	226	Appalachian State University	USA		27.6	54.2	36.8	16.5	0	88.68
201-300	227	The University of Memphis	USA		28.3	56.2	43.8	13.5	0	88.43
201-300	228	University of Haifa	Israel		26.3	64.2	33.3	13.5	0	88.38
201-300	229	University of Muenster	Germany		31.6	71.1	53.2	0	0	88.27
201-300	230	University of Ulster	UK		32.3	46	71.9	9.5	0	88.14
201-300	231	University of Manitoba	Canada		25.5	77	44.4	6.7	0	87.89
201-300	232	Georgia State University	USA		24.2	63.4	62.8	13.5	0	87.78
201-300	233	University of Vigo	Spain		24.6	57.9	61.6	15.1	0	87.11
201-300	234	University of the Sunshine Coast	Australia		24.6	64.9	76.9	9.5	0	86.54
201-300	235	University of the West of England	UK		23.3	67.4	57.5	11.7	0	86.1
201-300	236	University of Chester	UK		27.9	62.5	54.4	6.7	0	85.24
201-300	237	Autonomous University of Barcelona	Spain		29.5	58.6	48.6	6.7	0	85.11
201-300	238	University of Jyvaskyla	Finland		29.8	61.6	96	0	0	85.1
201-300	239	Halmstad University	Sweden		24.6	78.7	84.7	0	0	84.72
201-300	240	University of Mississippi	USA		23.3	62.1	21.7	16.5	0	84.67
201-300	241	The University of Texas at Austin	USA		34.2	56.6	49.1	0	0	84.51

201-300	242	Edge Hill University	UK		35.5	54	40.4	0	0	84.29
201-300	243	The University of Adelaide	Australia		26.8	48.3	62.8	13.5	0	84.13
201-300	244	Bond University	Australia		26.3	51.6	90.1	9.5	0	83.76
201-300	245	University of Leicester	UK		27.6	46.7	55.1	13.5	0	83.76
201-300	246	Aarhus University	Denmark		26.3	64.3	54.4	6.7	0	83.74
201-300	247	Liverpool John Moores University	UK		34.9	50.6	56.3	0	0	83.28
201-300	248	University of Utah	USA		33.6	55.7	50	0	0	83.25
201-300	249	Laurentian University	Canada		26.8	69.1	78	0	0	82.55
201-300	250	Utrecht University	Netherlands		29.8	61.9	67.9	0	0	82.44
201-300	251	Macquarie University	Australia		23.7	52.7	52.2	15.1	0	82.22
201-300	252	San Francisco State University	USA		29.5	45	34.4	11.7	0	81.89
201-300	253	The University of Manchester	UK		25.1	53.5	53.4	11.7	0	81.44
201-300	254	Boston College	USA		25.5	43.1	99.2	11.7	0	81.42
201-300	255	Syracuse University	USA		26.8	57.7	50.1	6.7	0	80.76
201-300	256	McMaster University	Canada		23.3	66.4	57.5	6.7	0	80.6
201-300	257	University of Bern	Switzerland		26.3	68	66.6	0	0	80.11
201-300	258	Indiana University-Purdue University at Indianapolis	USA		23.7	64.1	56.4	6.7	0	79.94
201-300	259	Oregon State University	USA		23.7	58	36.9	11.7	0	79.94
201-300	260	Louisiana State University - Baton Rouge	USA		29.8	44.2	53.7	6.7	0	78.87

201-300	261	Anglia Ruskin University	UK		25.5	47.1	52.5	11.7	0	78.75
201-300	262	Claude Bernard University Lyon 1	France		24.6	68.3	74.1	0	0	78.46
201-300	263	Bowling Green State University-Main Campus	USA		28.7	40	35.3	11.7	0	78.28
201-300	264	The University of Melbourne	Australia		27.2	50.5	52.7	6.7	0	78.02
201-300	265	University of Tuebingen	Germany		23.3	69.8	75.3	0	0	77.38
201-300	266	Australian Catholic University	Australia		27.6	56.2	71.2	0	0	76.62
201-300	267	University of Louisville	USA		25.1	68.8	40.4	0	0	76.09
201-300	268	University of Windsor	Canada		26.3	59.3	69.3	0	0	76.03
201-300	269	York St John University	UK		24.2	71	36.2	0	0	75.42
201-300	270	Towson University	USA		25.1	48.7	35	9.5	0	75
201-300	271	University of North Carolina at Chapel Hill	USA		25.1	51.8	45.1	6.7	0	74.76
201-300	272	Free University Berlin	Germany		23.7	51.5	60.3	6.7	0	74.03
201-300	273	University of Victoria	Canada		23.3	50.7	61.5	6.7	0	73.15
201-300	274	University of Liverpool	UK		28.3	38.5	43.8	6.7	0	72.78
201-300	275	University of Saskatchewan	Canada		23.3	66.6	43.5	0	0	72.6
201-300	276	University of Winchester	UK		28.7	52.4	30.5	0	0	72.3
201-300	277	Stellenbosch University	South Africa		23.3	47.2	68.8	6.7	0	72.13
201-300	278	The Swedish School of Sport and Health Sciences, GIH	Sweden		25.1	56.7	60.6	0	0	72.06
201-300	279	University of Worcester	UK		30.2	38.4	73.1	0	0	71.81

201-300	280	London Metropolitan University	UK		23.3	43.9	53.3	9.5	0	71.73
201-300	281	University of East London	UK		31.9	23.1	54.9	6.7	0	71.59
201-300	282	Vrije Universiteit Brussel (VUB)	Belgium		23.7	55.3	79.8	0	0	71.18
201-300	283	University of Maryland, College Park	USA		25.9	54.9	47.8	0	0	71.08
201-300	284	Solent University	UK		31.2	44.1	16.2	0	0	70.47
201-300	285	McGill University	Canada		25.1	52.3	60.6	0	0	69.86
201-300	286	De Montfort University	UK		24.6	57.1	41.1	0	0	69.56
201-300	287	Glasgow Caledonian University	UK		25.5	50.3	39.7	0	0	67.37
201-300	288	Charles Sturt University	Australia		25.1	49.2	49.4	0	0	67.19
201-300	289	University of Connecticut	USA		23.7	52.7	52.2	0	0	67.12
201-300	290	Brigham Young University	USA		24.6	59.4	0	0	0	66.6
201-300	291	Harvard University	USA		24.2	50.8	46.8	0	0	66.38
201-300	292	University of Essex	UK		25.1	38.8	80.7	0	0	65.12
201-300	293	Teesside University	UK		25.1	45.5	35	0	0	63.9
201-300	294	University of the Basque Country	Spain		23.3	30.5	48.6	6.7	0	61.76
201-300	295	Birkbeck, University of London	UK		26.3	31	57.7	0	0	60.72
201-300	296	University of New Brunswick	Canada		23.7	36.3	52.2	0	0	58.92
201-300	297	Georgia Institute of Technology	USA		23.3	31.3	21.7	0	0	52.77
201-300	298	Nicholls State University	USA		24.6	0	0	0	0	36.9

Note: Data in this table were collected and compiled from ShanghaiRanking's website: <http://www.shanghairanking.com/Shanghairanking-Subject-Rankings/hospitality-tourism-management.html>. Column "Rank2" shows the exact rank positions of all universities listed based on the calculated total score in Column "Total Score2"

Table 2: ShanghaiRanking's University Subject Ranking in Hospitality and Tourism Management 2018

Rank1	Rank2	Institution	Country/Region	Total Score1	PUB	CNCI	IC	TOP	AWARD	Total Score2
1	1	The Hong Kong Polytechnic University	Hong Kong	319.2	100	83.4	75	100	100	319.2
2	2	Griffith University	Australia	232.2	83	70.7	78.2	64.6	0	232.27
3	3	The University of Queensland	Australia	213.9	81.6	66.5	68.2	51.4	0	213.87
4	4	Pennsylvania State University - University Park	USA	213.4	72.8	70.5	61.9	62.8	0	213.44
5	5	University of Surrey	UK	205.6	53.9	88	90.3	54.4	86.6	205.6
6	6	Purdue University - West Lafayette	USA	198.5	59.9	74.3	62.2	65.3	0	198.52
7	7	Temple University	USA	189.4	60.9	78.3	70.5	51.9	0	189.45
8	8	Kyung Hee University	Korea	188.4	57.6	76.1	86.9	55.2	0	188.34
9	9	Virginia Polytechnic Institute and State University	USA	185.7	50.5	98.8	70.2	53.6	0	185.77
10	10	Sun Yat-sen University	China	184	52	81.1	86.6	56.8	0	184.01
11	11	University of Central Florida	USA	180.8	52.4	79.8	58.3	56.4	0	180.73
12	12	Bournemouth University	UK	180.2	56.8	83.6	68	46.4	0	180.2
13	13	University of Florida	USA	173.5	56	75.2	64.6	45.4	0	173.46
14	14	Sejong University	Korea	170.9	46.7	86.8	86.4	48.8	0	170.89
15	15	Washington State University	USA	167.6	42.9	98.1	73.2	46.9	0	167.62
16	16	Texas A&M University	USA	162.1	55.8	67	64.8	38.5	0	162.18
17	17	The University of Waikato	New Zealand	157.4	52	65.4	81.9	38.5	0	157.39
18	18	Florida State University	USA	157	52.7	64.9	71.4	38.5	0	157.14
19	19	University of Nevada-Las Vegas	USA	156.7	44	87.2	53.9	41.8	0	156.79
20	20	University of Johannesburg	South Africa	155.8	49.1	79.6	88.7	33.5	0	155.82
21	21	Monash University	Australia	155.2	51.8	71	66.2	35.4	0	155.22
22	22	Loughborough University	UK	153.7	72	66.5	57.9	6.7	0	153.74
23	23	University of Waterloo	Canada	153.6	51.1	84.6	78.3	26.8	0	153.58

24	24	University of South Carolina - Columbia	USA	153.1	48.9	77.6	61.7	34.8	0	153.12
25	25	University of South Australia	USA	152.7	53.5	59.1	74.1	35.4	0	152.61
26	26	Oxford Brookes University	UK	149.9	35.4	68.7	78.7	37.3	86.6	149.94
27	27	University of Otago	New Zealand	148.1	54.8	61.7	74.9	27.6	0	148.14
28	28	Southern Cross University	Australia	147.6	48.6	71	71.3	32.1	0	147.63
29	29	Michigan State University	USA	147.1	48.9	64.1	56.9	36.1	0	147.19
30	30	University of Strathclyde	UK	146.8	39.9	60	77.7	29.2	100	146.82
31	31	James Cook University	Australia	145.4	50.2	67.5	71.2	29.2	0	145.37
32	32	University of Houston	USA	144.4	39.6	68.7	56.9	44.9	0	144.34
33	33	Leeds Beckett University	UK	144.1	56.8	61.9	57.5	22.2	0	144.1
34	34	The University of New South Wales	Australia	143.6	45.7	67	74.1	34.1	0	143.56
35	35	University of Massachusetts Amherst	USA	141.4	42.9	67.5	72.2	36.1	0	141.42
36	36	University of Illinois at Urbana-Champaign	USA	136.5	49.3	61.1	60.2	25.9	0	136.42
37	37	The Hebrew University of Jerusalem	Israel	134.8	24.8	100	75.2	20.1	100	134.82
38	38	Arizona State University	USA	134.7	43.4	60.8	62.9	32.8	0	134.59
39	39	Iowa State University	USA	134.1	37.5	74.3	71.5	33.5	0	134.05
40	40	Universidad de Las Palmas de Gran Canaria	Spain	131.5	34.7	77.4	59.5	34.8	0	131.5
41	41	University of Alicante	Spain	128.8	32.3	82.6	61.9	32.8	0	128.74
42	42	The University of Calgary	Canada	128.5	40.2	54.3	73.9	16.4	86.6	128.56
43	43	University of Technology Sydney	Australia	127.7	48.1	54	72.8	21.2	0	127.63
44	44	Curtin University	Australia	127.4	45.2	61.9	74	21.2	0	127.35
45	45	University of Ottawa	Canada	127.3	52.9	59.7	65.5	11.6	0	127.35
46	46	Victoria University	Australia	125.9	49.5	51.4	69.9	18.9	0	125.84
47	47	University of Cologne	Germany	124.5	51.6	60.3	75.6	9.5	0	124.61
48	48	Ben-Gurion University of the Negev	Israel	123.8	32.7	68.2	65.2	34.1	0	123.77
49	49	Indiana University Bloomington	USA	123.6	42.9	62.5	57.7	22.2	0	123.57

50	50	University of Birmingham	UK	123.5	51.1	68	61.5	6.7	0	123.5
51-75	51	La Trobe University	Australia		45.7	54.3	42.3	23.2	0	123.13
51-75	52	Cardiff Metropolitan University	UK		44	61.1	64.4	20.1	0	123.09
51-75	53	University of Canterbury	New Zealand		39.6	69.2	86.5	20.1	0	122.75
51-75	54	University of Wollongong	Australia		39.3	62.8	70.8	25.1	0	122.53
51-75	55	Deakin University	Australia		42.4	61.1	67.9	21.2	0	122.14
51-75	56	Sheffield Hallam University	UK		46.7	52.3	66.3	18.9	0	121.73
51-75	57	University of British Columbia	Canada		45	68	62.9	13.4	0	121.19
51-75	58	National Chiayi University	Taiwan		34.7	63.6	42.1	32.8	0	120.86
51-75	59	AUT University	New Zealand		42.4	52	82.7	22.2	0	120.07
51-75	60	Oklahoma State University	USA		33	64.6	73.3	30.7	0	119.83
51-75	61	East Carolina University	USA		36	65.2	49.7	27.6	0	119.17
51-75	62	Cornell University	USA		39.3	62.8	60.2	22.2	0	118.57
51-75	63	National Cheng Kung University	Taiwan		30.2	76.3	66.3	28.4	0	118.48
51-75	64	University of Central Lancashire	UK		45.2	62.8	57.1	13.4	0	118.31
51-75	65	University of Alberta	Canada		53.1	47.5	52.4	9.5	0	118.14
51-75	66	Linnaeus University	Sweden		34	82.1	81.7	17.7	0	117.92
51-75	67	University of Valencia	Spain		25.7	67.5	77.9	17.7	100	117.79
51-75	68	The Ohio State University - Columbus	USA		36.6	65.4	58.2	24.1	0	117.52
51-75	69	Clemson University	USA		35.4	65.2	58.4	24.1	0	115.64
51-75	70	University of Wageningen	Netherlands		34.4	67.2	82.3	22.2	0	115.63
51-75	71	University of the Balearic Islands	Spain		34	64.4	52.6	26.8	0	115.26
51-75	72	University of Macau	Macao		29.8	72.9	52.1	28.4	0	114.76
51-75	73	Pusan National University	Korea		31.3	71.4	77.5	23.2	0	113.6
51-75	74	University of Nottingham	UK		31.6	73.8	67.3	22.2	0	113.23
51-75	75	Brock University	Canada		41	59.4	54.9	16.4	0	113.09
76-100	76	University of Oulu	Finland		38.7	65.4	84.3	13.4	0	112.58

76-100	77	University of Malaga	Spain		28.2	77.9	25.9	28.4	0	112.24
76-100	78	National Kaohsiung University of Hospitality & Tourism	Taiwan		31.3	65.4	64	25.9	0	111.95
76-100	79	University of Stavanger	Norway		32	69.7	58.2	23.2	0	111.87
76-100	80	Manchester Metropolitan University	UK		41	55.8	60.4	16.4	0	111.84
76-100	81	University of Hawaii at Manoa	USA		28.6	50.3	51.1	21.2	86.6	111.68
76-100	82	Ming Chuan University	Taiwan		32	63	45.7	27.6	0	111.67
76-100	83	Zhejiang University	China		27.4	75.6	94.3	23.2	0	111.53
76-100	84	National Taiwan Normal University	Taiwan		34	60.3	48	25.1	0	111.05
76-100	85	Queensland University of Technology	Australia		35	61.9	60.8	21.2	0	110.73
76-100	86	The University of Georgia	USA		39.6	54	63.9	17.7	0	110.49
76-100	87	Copenhagen Business School	Denmark		27	77.4	87.8	22.2	0	110.18
76-100	88	University of Tromso	Norway		34.7	65.4	71.4	17.7	0	109.59
76-100	89	University of Innsbruck	Austria		25.7	80.2	63.6	24.1	0	109.11
76-100	90	Middlesex University	UK		26.1	79.4	68.5	23.2	0	108.9
76-100	91	Lund University	Sweden		28.6	77.9	78.7	18.9	0	108.62
76-100	92	Macau University of Science and Technology	Macao		27.8	70.2	74.3	24.1	0	108.33
76-100	93	KU Leuven	Belgium		39.3	61.4	68.3	11.6	0	108.08

76-100	94	Dong-A University	Korea		25.7	83.8	66.7	20.1	0	107.22
76-100	95	University of Stirling	UK		46.7	49.7	55.3	6.7	0	107.13
76-100	96	University of Exeter	UK		37.5	56.4	61.5	16.4	0	107
76-100	97	University of Missouri - Columbia	USA		31.3	63.6	59.6	22.2	0	106.91
76-100	98	VU University Amsterdam	Netherlands		34	67.2	85.8	13.4	0	106.58
76-100	99	University of Minnesota, Twin Cities	USA		41	57	48.8	11.6	0	106.48
76-100	100	University of Lisbon	Portugal		36	55.5	81.2	16.4	0	106.27
101-150	101	Universidade do Algarve	Portugal		31.3	60.8	66.1	22.2	0	106.16
101-150	102	Texas Tech University	USA		35.7	55.2	48	20.1	0	106.05
101-150	103	Hanyang University	Korea		28.2	71.7	77.7	20.1	0	106.02
101-150	104	University of Science, Malaysia	Malaysia		27	74.9	76.6	20.1	0	105.71
101-150	105	University of Ljubljana	Slovenia		29.4	63	82.4	21.2	0	105.04
101-150	106	University of Gothenburg	Sweden		36	61.7	67.3	13.4	0	104.98
101-150	107	University of Amsterdam	Netherlands		26.1	84.6	68.5	16.4	0	104.7
101-150	108	Federation University Australia	Australia		37.8	54	59.5	15	0	104.65
101-150	109	Norwegian School of Sport Sciences	Norway		41.3	69.5	77.1	0	0	104.41
101-150	110	College of Charleston	USA		26.5	67.5	72.8	23.2	0	103.98

101-150	111	University of Delaware	USA		26.5	73.6	58.4	21.2	0	103.59
101-150	112	University of Bedfordshire	UK		33	62.8	75	15	0	103.4
101-150	113	University of Brighton	UK		43.7	53	44.2	6.7	0	103.17
101-150	114	University of Malaya	Malaysia		28.2	71.2	70.9	17.7	0	102.69
101-150	115	University of Westminster	UK		30.5	56.1	61	22.2	0	102.1
101-150	116	The University of Western Australia	Australia		35.4	55.8	73	13.4	0	101.7
101-150	117	University of Toronto	Canada		41	52.7	41.8	9.5	0	101.53
101-150	118	University of Bath	UK		34.7	69	75.9	6.7	0	100.84
101-150	119	Cardiff University	UK		27	69.7	63.5	18.9	0	100.6
101-150	120	University of Southern Denmark	Denmark		33.7	64.6	55.2	11.6	0	99.97
101-150	121	Edith Cowan University	Australia		32	55.5	74	16.4	0	99.55
101-150	122	Victoria University of Wellington	New Zealand		34.7	47.5	71.4	16.4	0	99.34
101-150	123	Auburn University	USA		28.6	63.8	44.2	20.1	0	99.32
101-150	124	Western University	Canada		39	57.3	54.6	6.7	0	99.31
101-150	125	The Chinese University of Hong Kong	Hong Kong		26.5	67.2	70.2	18.9	0	99.27
101-150	126	Free University of Bozen-Bolzano	Italy		29.8	58.2	75.6	17.7	0	99.06
101-150	127	University of Tennessee - Knoxville	USA		33.7	54	37.5	17.7	0	99

101-150	128	RMIT University	Australia		35.7	47.5	52.2	16.4	0	98.92
101-150	129	University of Barcelona	Spain		27.4	65.2	62.5	18.9	0	98.85
101-150	130	National Chi Nan University	Taiwan		28.2	48.3	54.9	26.8	0	98.74
101-150	131	Wilfrid Laurier University	Canada		32.3	59.7	69.6	13.4	0	98.66
101-150	132	Massey University	New Zealand		29.4	57.6	78.6	17.7	0	98.46
101-150	133	University of Girona	Spain		27	65.4	46.9	20.1	0	97.99
101-150	134	North Carolina State University - Raleigh	USA		31.3	54.9	46.7	18.9	0	97.97
101-150	135	Plymouth University	UK		29.4	57	63.4	18.9	0	97.84
101-150	136	University of Lincoln	UK		26.5	77	75.4	11.6	0	97.39
101-150	137	The University of Newcastle, Australia	Australia		28.6	61.7	72.2	16.4	0	97.37
101-150	138	University of Hull	UK		34.4	52.7	60.1	13.4	0	97.36
101-150	139	Flinders University	Australia		30.2	62.5	68.5	13.4	0	96.8
101-150	140	Colorado State University	USA		27	65.2	71.7	16.4	0	96.67
101-150	141	University of Wolverhampton	UK		32	60.8	48.5	13.4	0	96.65
101-150	142	Hong Kong Baptist University	Hong Kong		26.1	62.8	83.9	17.7	0	96.64
101-150	143	University of Seville	Spain		25.2	68.5	54.2	18.9	0	96.37
101-150	144	Swinburne University of Technology	Australia		25.7	62.8	85.4	17.7	0	96.19

101-150	145	The University of Edinburgh	UK		37.2	46.8	48.1	11.6	0	95.61
101-150	146	University of Eastern Finland	Finland		23.8	78.3	57.3	15	0	95.58
101-150	147	University of Canberra	Australia		27.4	73.1	82.2	9.5	0	95.37
101-150	148	University of Groningen	Netherlands		27.4	62.5	73	15	0	94.65
101-150	149	Akdeniz University	Turkey		24.8	66.7	51.1	18.9	0	94.56
101-150	150	University of Bologna	Italy		25.7	62.5	34.8	21.2	0	94.48
151-200	151	Seoul National University	Korea		29.4	50.3	86.1	16.4	0	94.26
151-200	152	University of Western Sydney	Australia		35	52	60.8	9.5	0	94.08
151-200	153	University of Michigan-Ann Arbor	USA		41.3	39.7	51.6	6.7	0	93.66
151-200	154	Peking University	China		24.8	62.8	100	15	0	93.6
151-200	155	University of Portsmouth	UK		32.7	51	52.4	13.4	0	93.19
151-200	156	University of Leeds	UK		29.8	57.9	60.1	13.4	0	93.06
151-200	157	Northumbria University	UK		31.6	55.2	81.7	9.5	0	92.67
151-200	158	The University of Hong Kong	Hong Kong		28.6	58.5	88.5	11.6	0	92.6
151-200	159	Bangor University	UK		29	65.7	66.6	9.5	0	92.51
151-200	160	The University of Sheffield	UK		27.4	59.1	68	15	0	92.45
151-200	161	Ghent University	Belgium		24.3	80.9	60.1	9.5	0	92.41

151-200	162	Nanyang Technological University	Singapore		33.4	50.7	70.9	9.5	0	92.04
151-200	163	Swansea University	UK		23.8	72.1	65	13.4	0	91.65
151-200	164	Murdoch University	Australia		26.1	68	65.6	11.6	0	91.31
151-200	165	Simon Fraser University	Canada		27	52	63.5	17.7	0	90.55
151-200	166	University of North Carolina at Greensboro	USA		28.2	61.7	54.9	11.6	0	90.24
151-200	167	University of Limerick	Ireland		27	69.5	79	6.7	0	89.85
151-200	168	The University of Auckland	New Zealand		29.4	64.6	60.9	6.7	0	89.19
151-200	169	California State Polytechnic University-Pomona	USA		27.4	55.5	49.9	15	0	88.84
151-200	170	University of Gloucestershire	UK		31.3	55.5	43.7	9.5	0	88.57
151-200	171	University of Sunderland	UK		27	54	60.6	15	0	88.56
151-200	172	West Virginia University	USA		29.8	57.9	52.9	9.5	0	88.44
151-200	173	Oregon State University	USA		26.5	58.8	38.9	15	0	88.04
151-200	174	Umea University	Sweden		27.8	64.9	69.5	6.7	0	87.8
151-200	175	University Rovira i Virgili	Spain		27.8	61.4	32.2	11.6	0	87.22
151-200	176	University of Guelph	Canada		29.8	43	60.1	15	0	87.21
151-200	177	University of Granada	Spain		26.1	54.3	44.2	16.4	0	87.12
151-200	178	Aalborg University	Denmark		29.8	49	81.4	9.5	0	86.84

151-200	179	North-West University	South Africa		26.1	48.6	56	17.7	0	86.75
151-200	180	Brunel University	UK		34	56.7	72.8	0	0	86.63
151-200	181	The University of Adelaide	Australia		26.1	53	59.3	15	0	86.58
151-200	182	San Francisco State University	USA		29.8	50	34.7	13.4	0	86.57
151-200	183	Georgia State University	USA		24.3	57.3	63.7	15	0	86.47
151-200	184	University of Tasmania	Australia		29	51.4	47.1	11.6	0	85.51
151-200	185	University of Sydney	Australia		31.3	50.3	59.6	6.7	0	84.76
151-200	186	George Mason University	USA		23.8	64.9	48.5	11.6	0	84.6
151-200	187	University of Iceland	Iceland		27.8	47.2	94.7	9.5	0	84.27
151-200	188	The University of Texas at Austin	USA		35	51.7	59	0	0	84.25
151-200	189	University of Copenhagen	Denmark		24.8	67	65.9	6.7	0	83.99
151-200	190	University of Haifa	Israel		23.8	59.4	30.6	15	0	83.46
151-200	191	Laurentian University	Canada		26.5	71.4	77.8	0	0	83.23
151-200	192	Ball State University	USA		26.1	44.6	65.6	15	0	83.01
151-200	193	Queen's University	Canada		31.3	56.4	73.9	0	0	82.54
151-200	194	Durham University	UK		27	59.7	54.2	6.7	0	82.47
151-200	195	The University of Alabama - Tuscaloosa	USA		31.6	49.7	32.7	6.7	0	82.22

151-200	196	Appalachian State University	USA		25.2	47.5	29	17.7	0	82.15
151-200	197	Boston College	USA		26.5	37.9	99.2	13.4	0	82.02
151-200	198	California State University-Fullerton	USA		24.3	77.2	67.2	0	0	81.77
151-200	199	Kent State University	USA		28.6	45.3	36.1	11.6	0	80.76
151-200	200	London Metropolitan University	UK		24.8	48.6	55.2	13.4	0	80.42

Note: Data in this table were collected and compiled from ShanghaiRanking's website: <http://www.shanghairanking.com/Shanghairanking-Subject-Rankings-2018/hospitality-tourism-management.html>. Column "Rank2" shows the exact rank positions of all universities listed based on the calculated total score in Column "Total Score2"