### Rankers Updates: What Institutional Researchers Should Know

Yang Zhang Director of Institutional Research, University of Hawaii at Mānoa

Bob Morse Chief Data Strategist, USNWR, Best Global Universities Rankings

Ying Cheng Assistant Professor, Academic Ranking of World Universities (ARWU)

Selina Griffin Ranking Manager, QS World University Ranking

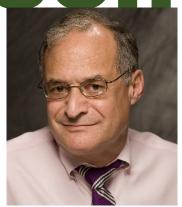
Duncan Ross Data and Analytics Director, Times Higher Education World University Rankings

#### Presenters



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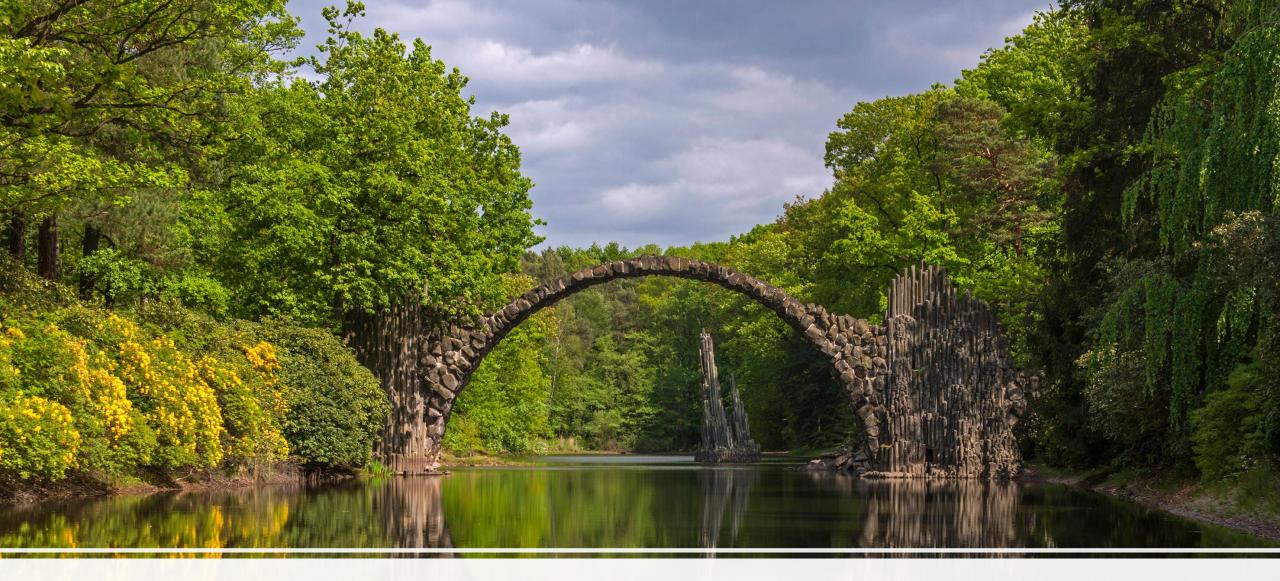
**Ying Cheng** 

Assistant Professor, Academic Ranking of World Universities (ARWU)

#### Why We Care about Rankings?

- Recruiting Students
  - Especially Out-of-State and International Students
  - Foreign Government Scholarships
- Recruiting Talent
- International Collaboration
- University Community Engagement
- University Image

Keywords: Marketing and Promotion



Build A Bridge between "IR" and "IR"

# Perspectives from International Rankings

# U.S. News Best Global Ranking





- The fourth U.S. News Best Global Universities rankings launched on www.usnews.com on October 24, 2017.
- The Best Global Universities rankings
   are powered by data from Clarivate Analytics
   InCites<sup>TM</sup> research analytics solutions.
- Web site to U.S. News Best Global https://www.usnews.com/education/best -global-universities



#### **Best Global Universities**

The U.S. News rankings, based on schools' academic research and reputation, allow students to compare universities around the world.

#### See the Global Universities Rankings »

#### Search Global Universities Country School name

#### **Regional Rankings**

Africa

Asia

Australia/New Zealand

Europe

Latin America

#### **Featured Country Rankings**





















Spain

United Kingdom

South Korea

#### **Subject Rankings**

Agricultural Sciences

Arts and Humanities

Biology and Biochemistry

Chemistry

Clinical Medicine

Computer Science

Economics and Business

Engineering

Environment/Ecology

Geosciences

Immunology

Materials Science

Mathematics

Microbiology

Molecular Biology and Genetics

Neuroscience and Behavior

Pharmacology and Toxicology

Physics

Plant and Animal Science

Psychiatry/Psychology

Social Sciences and Public Health

Space Science

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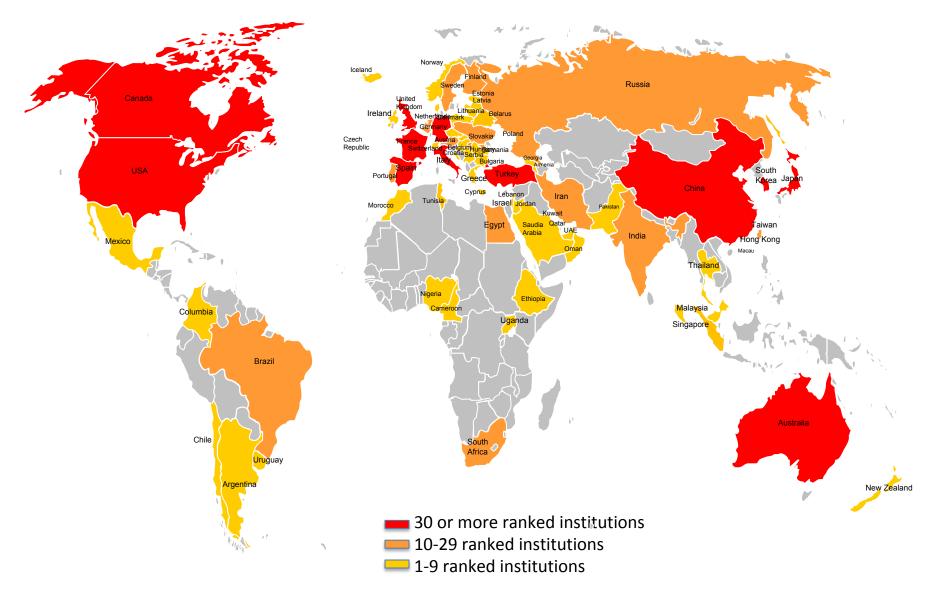


#### Best Global Universities rankings include:

- Top 1,250 Universities worldwide in 74 countries-up from 1,000 and 65 countries published in 2016
- Five regional rankings Africa, Asia, Australia/New Zealand, Europe and Latin America
- 42 country rankings including top institutions in: Canada,
   China, France, Germany, India, Italy, Japan, the Netherlands,
   South Korea, Spain, Sweden and the United Kingdom
- Top universities in 22 subjects in such key fields as chemistry, clinical medicine, computer science, economics and business, engineering, environment/ecology, mathematics and physics.

#### Best Global Universities -- Countries







The 22 subjects in the Best Global Universities Subject rankings

**Arts and Humanities** 

**Agricultural Sciences** 

**Biology and Biochemistry** 

Chemistry

**Clinical Medicine** 

**Computer Science** 

**Economics and Business** 

**Engineering** 

**Environment/Ecology** 

Geosciences

**Immunology** 

**Materials Science** 

**Mathematics** 

Microbiology

**Molecular Biology and Genetics** 

**Neuroscience and Behavior** 

Pharmacology and Toxicology

**Physics** 

**Plant and Animal Science** 

**Psychiatry/Psychology** 

**Social Sciences and Public Health** 

**Space Science** 



#### Best Global Universities rankings included (Published 10/24/17)

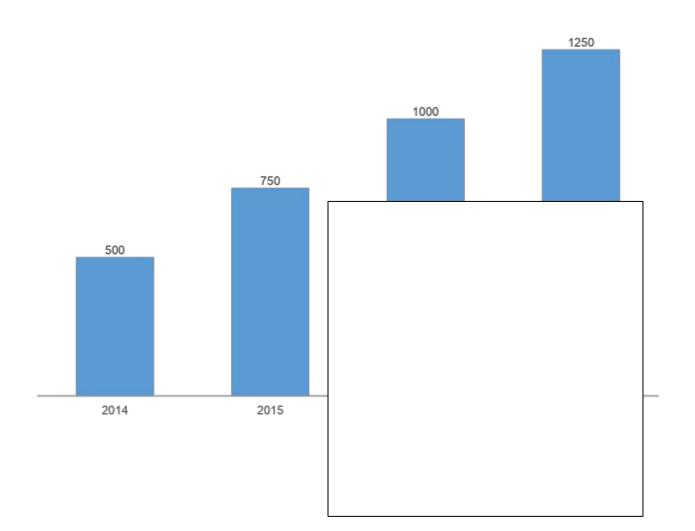
#### What's new?

- Significantly increased the number of schools ranked in each subject area, leading to a total of 6,800 ranked schools compared with 6,000 in the prior edition. Many schools appear in more than one subject.
- Four subject ranking extended (chemistry, clinical medicine, engineering, physics) to 600 each- up from 400 in 2016.
- New ranking indicator for overall rankings "Percentage of total publications with international collaboration".
- Three new ranking indicators for subject rankings "Percentage
  of total publications with international collaboration",
  "Number of highly cited papers that are among the top 1
  percent most cited", and "Percentage of highly cited papers
  that are among the top 1 percent most cited".



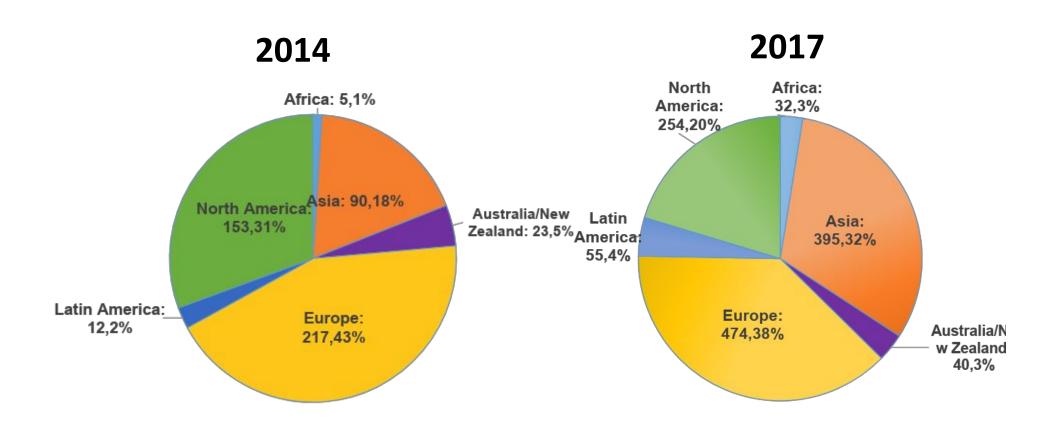
#### Year to Year Growth in Overall Rankings

Number of Universities in Overall Rankings





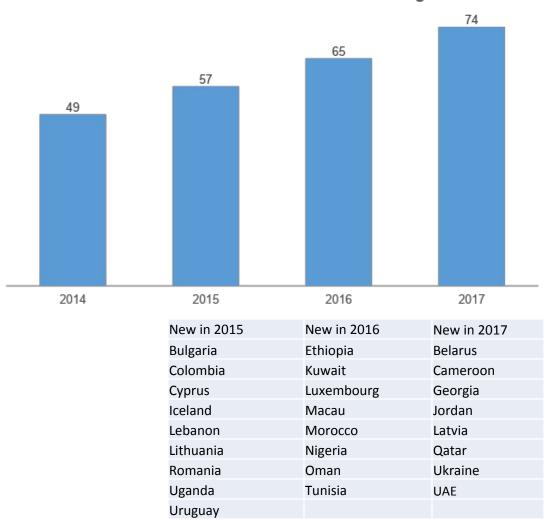
#### Regional Breakdown:





#### **Growth in Overall Rankings**

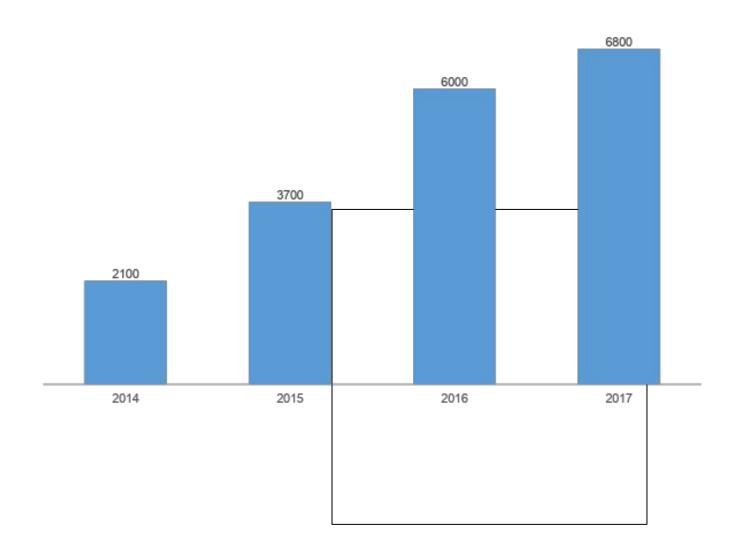
Number of Countries in Overall Rankings





#### **Growth in Subject Rankings**

Number of Schools ranked in each Subject





#### Best Global Universities rankings included

#### Q. Please think of a most frequent question you get from institutions, what it is, and what is your response?

In terms of Best Global it's what does it take to qualify to be in the overall ranking or one of the subject ranking.

It's from schools that want to be ranked that don't have enough papers or weren't ranked on usnews.com.

Answer is it takes for 2017 ranking 1500 papers 2011-15 to ranking universe and top 1250 were ranked.

Basically schools want to appear in the global rankings so they are visible i.e. not invisible.



#### Best Global Universities rankings included

#### Q. If you could send only one message to institutional researchers at the 2018 AIR conference, what would that be?

Each of the global rankings in this session uses a different methodology. Broadly speaking these different methodologies and produce similar results in many ways but there are key differences, too.

It's important to understand these differences and similarities in the methodologies and how each ranking publishes the data on their websites when discussing them with campus higher ups.

## QS World University Ranking







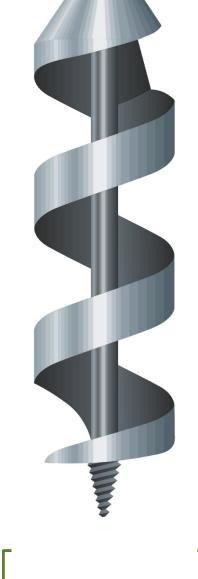
# **JOR APPROACH**











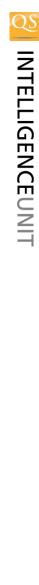




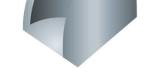
BY REGION BY SUBJECT

BY CONTEXT BY MISSION

BY TYPE















BY **SUBJECT** 

BY **CONTEXT** 

BY **MISSION** 

BY **TYPE** 

**ASIA** 

**48** SPECIFIC **SUBJECTS** 

**BEST STUDENT** CITIES

**EMPLOYABILITY** 

**QS** CLASSIFICATION

**LATIN AMERICA** 

**5** BROAD AREAS

GLOBAL MBA

HE SYSTEMS

REIMAGINE **EDUCATION** 

**QS STARS** 

TOP **50** UNDER **50** 

**ARAB REGION** 

**BRICS** 

DISTANCE/ **EECA** ONLINE MBA

**EMBA** 

**BUSINESS MASTERS** 



#### **PROGRAMS**





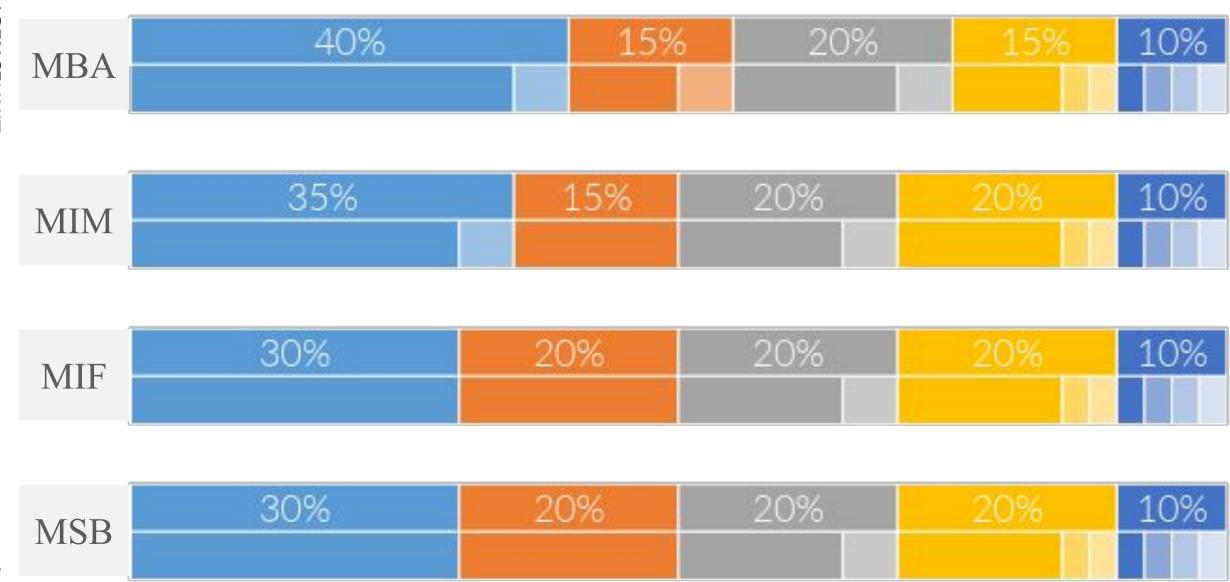
Return On Investment

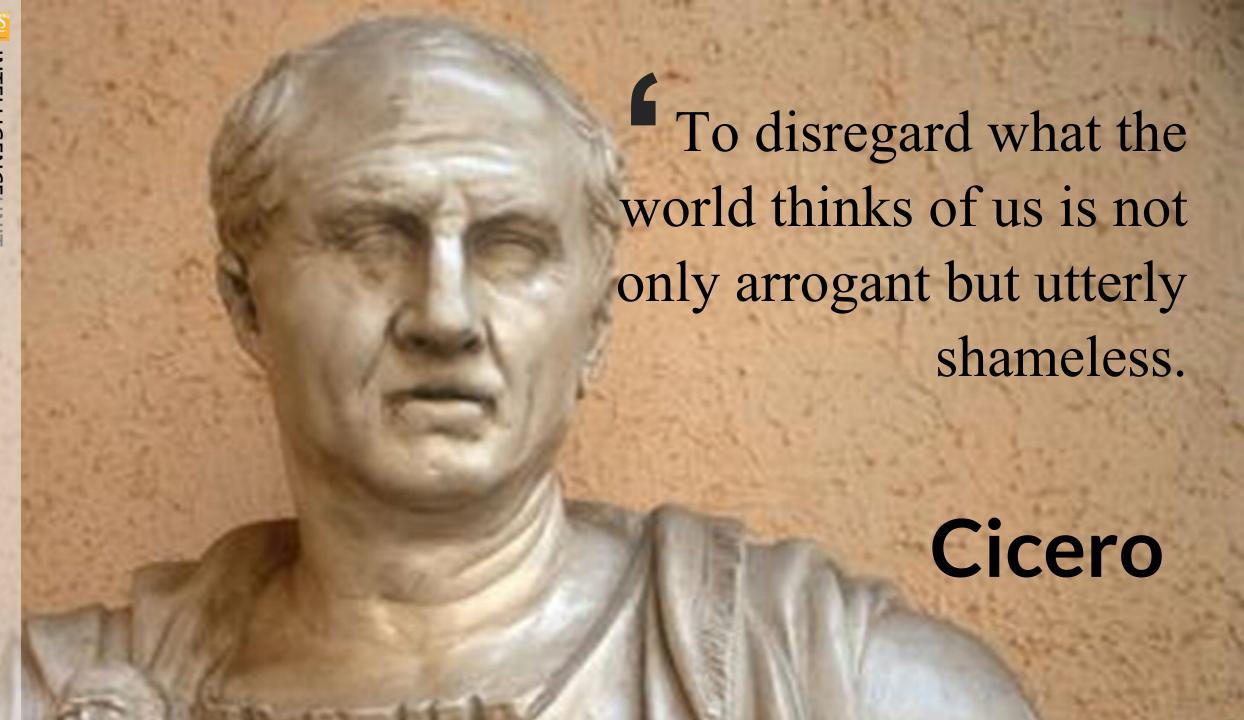
Thought Leadership

Diversity

WHAT'S BEEN TAKEN IN TO ACCOUNT?

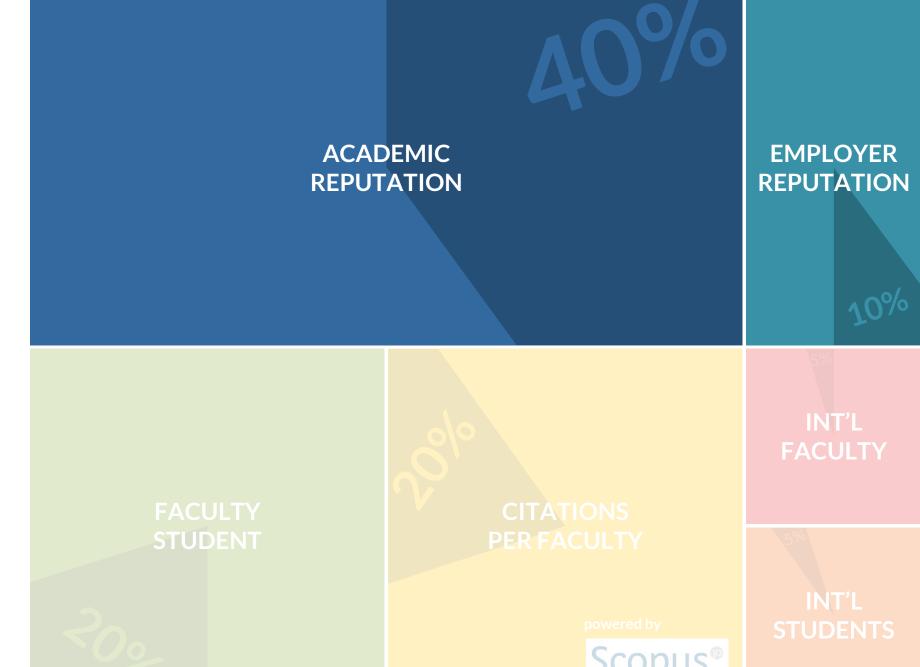
#### **INDICATORS AND WEIGHTS**







- Consistent, simple methodology
- Stable results
- Discipline independent
- Language independent
- Low dependence on self-reporting

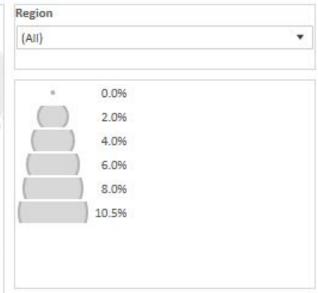




#### 2018 Academic Responses

#### 75,015





85:15

International: domestic

#### Z 2018 Employer Responses

#### 40,455



International: domestic

You can recognize truth by its beauty and simplicity...because the truth always turns out to be simpler than you think



**RICHARD FEYNMAN** 

Theoretical Physicist 1918-1988

#### **THANK YOU**



# TIMES Higher Education World University Ranking



Times Higher Education

#### **Duncan Ross**

Data and Analytics Director

duncan.ross@timeshighereducation.com @duncan3ross





### **Our mission**

Times Higher Education's mission is to help create the conditions and culture that universities need to succeed, by providing data and insights from the world's top universities.







### **Young Universities**

### Reputation

### Geographical

- Asia
- Europe
- Latin America
- Emerging Economies
- Asia Pacific
- Arab World

### Subjects

- Arts and Humanities
- Social Sciences
- Business and Economics
- Clinical and Medical
- Life Sciences
- Physical Sciences
- Engineering
- Computer Sciences
- Psychology
- Law
- Education





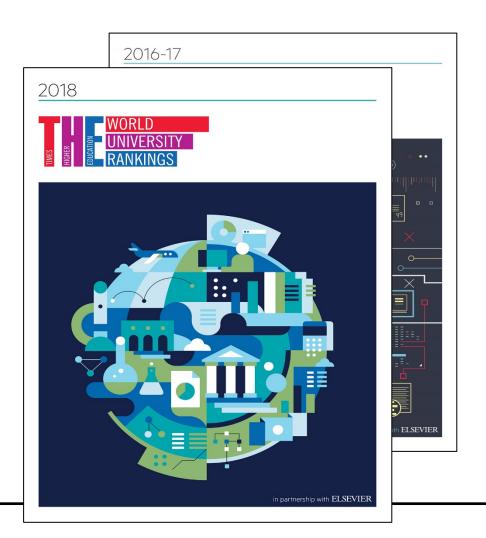




### Independently audited by PwC

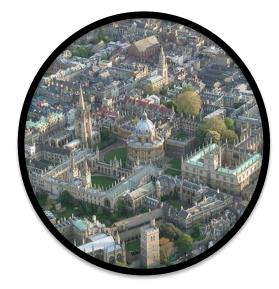
The calculation of our *THE* World University, and US College Rankings have been independently audited by professional services firm PricewaterhouseCoopers (PwC).







### The data for the World University Ranking



Performance data *Universities* 



Reputation data *Academics* 



Bibliometric data Elsevier



### The data for the World University Ranking



1,457
Submitted data



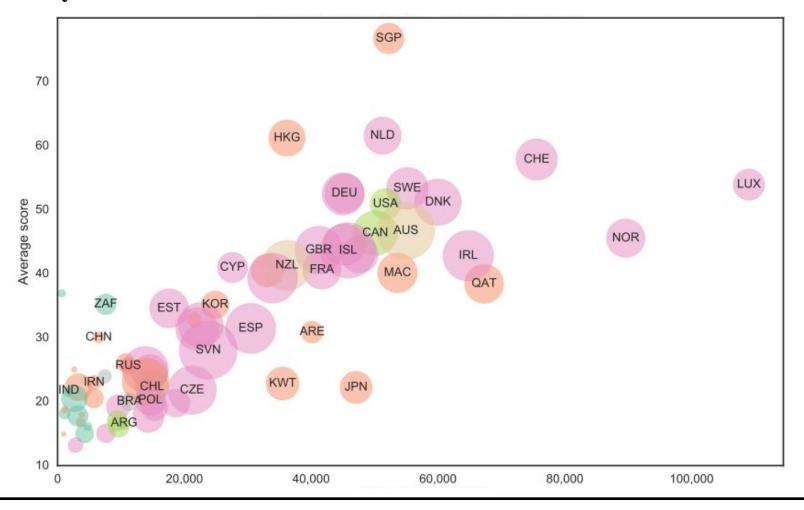
3,513 *Universities voted for* 



62 million citations... Analysed



### **Ranked Universities by country**





### The data for the WSJ/THE US College Ranking



**Performance data IPEDs** 



**Student insight** 





**Outcomes data** 

**College Scorecard** 



**Reputation data Academics** 



**Bibliometric data** 

**Elsevier** 





"What matters most is how you see yourself"



# Academic Ranking of World Universities (ARWU)



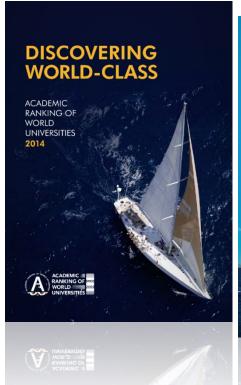
# WHY ARWU?

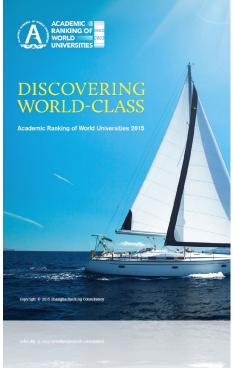
- In the context of China's will for building World-Class Universities
- Serve the strategic planning of Shanghai Jiao Tong University
- Find out the gap between top Chinese universities and World-Class universities
- From benchmarking to ranking

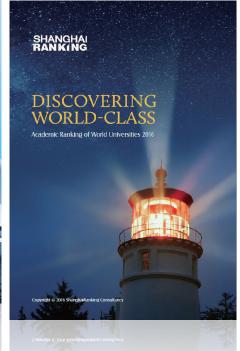


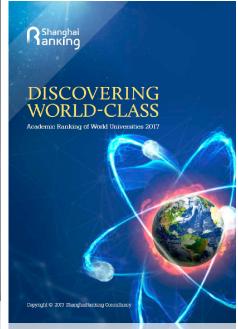
## Academic Ranking of World Universities (ARWU)

2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017











# **Features of ARWU**

Objective indicators

Third-Party data

Transparent

Consistent

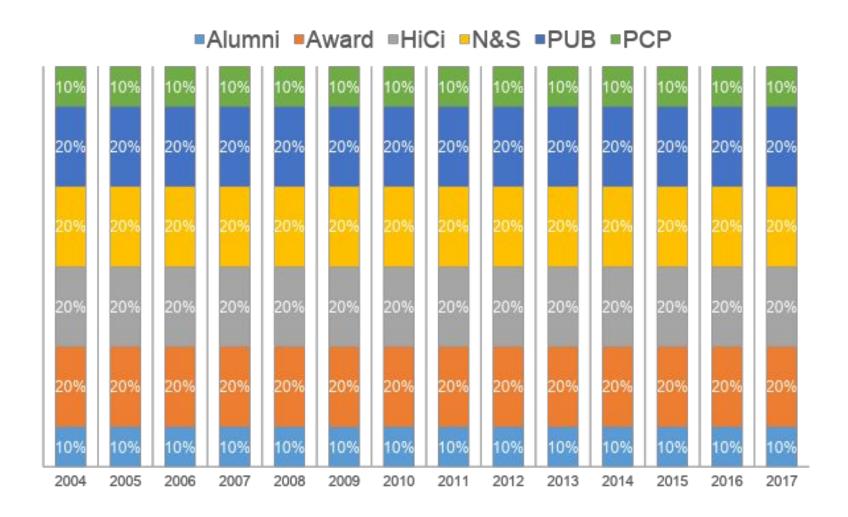


# **ARWU Methodology**

Criteria	Indicator	Code	Weight
Quality of Education	Alumni of an institution winning Nobel Prizes and Fields Medals	Alumni	10%
Quality of	Staff of an institution winning Nobel Prizes and Fields Medals	Award	20%
Faculty	Highly cited researchers in 21 broad subject categories	HiCi	20%
	Papers published in Nature and Science	N&S	20%
Research Output	Papers indexed in Science Citation Index-expanded and Social Science Citation Index	PUB	20%
Per Capita Performance	Per capita academic performance of an institution	PCP	10%
Total	IIISHUUIOII		100%

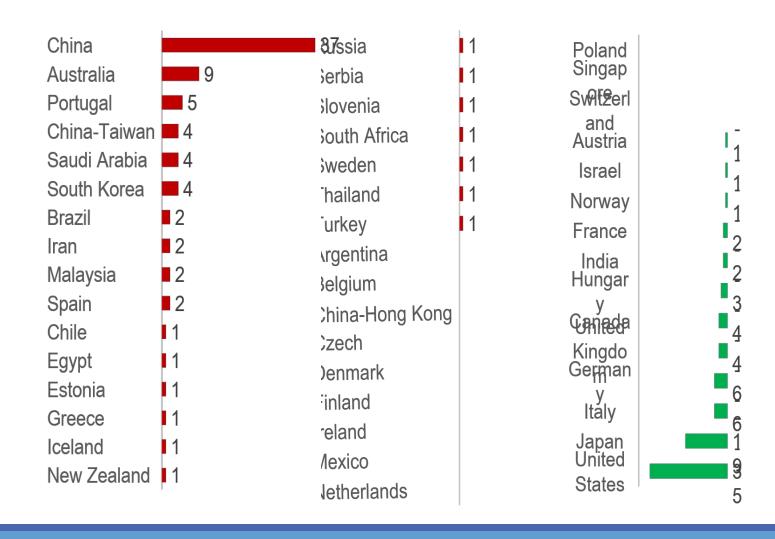


# Consistent

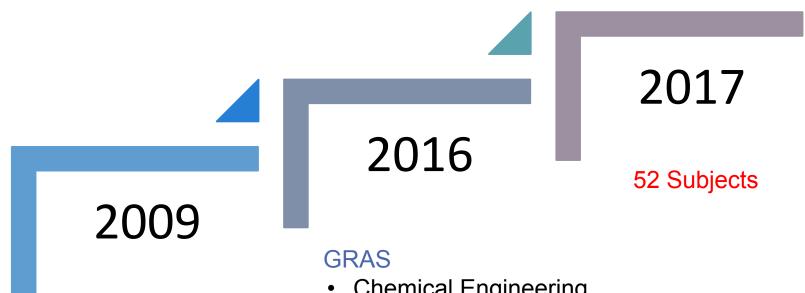




# Changes in Number of Top 500 Universities by Country: 2004 vs 2017



# Global Ranking of Academic Subjects (GRAS)



### **ARWU-SUBJECT**

- **Mathematics**
- **Physics**
- Chemistry
- **Computer Science**
- **Economics/Business**

- Chemical Engineering
- Civil Engineering
- **Electrical & Electronic Engineering**
- **Energy Science & Engineering**
- **Environmental Science & Engineering**
- Materials Science & Engineering
- **Mechanical Engineering**







The number of papers authored by an institution in an Academic Subject.

Category Normalized
Citation Impact from InCites
database to measure
average impact of papers
authored by an institution in
an Academic Subject.

PUB

AWARD

CNCI

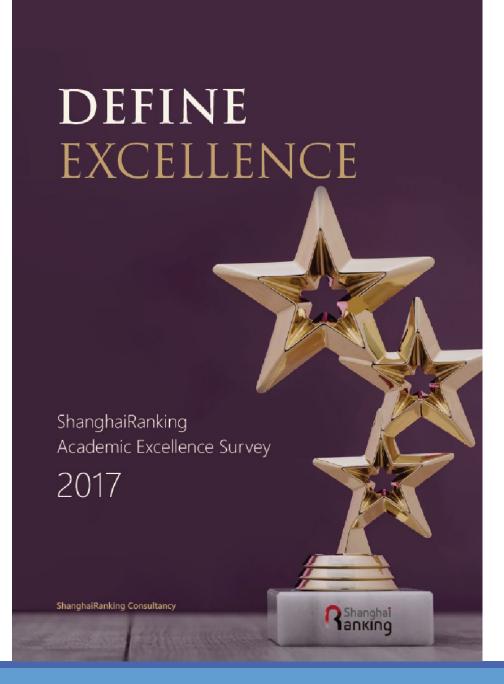
The total number of the staff of an institution wining a significant award in an Academic Subject.

RShanghai anking

TOP

The percentage of internationally collaborated papers authored by an institution in an Academic Subject.

The number of papers published in top journals in an Academic Subject.



Ask opinions of world's best scholars but NOT A

### **REPUTATION SURVEY!**

- Highly selected researchers
- Nominate criteria for academic excellence other than nominate best universities
- Respondents must agree to publish their names and affiliations



Name		Name	Institu	Name	Institut	Name	Institution	Country	Subject
David Gabai	Princeton Universi	John A. White	Boston University	Jan Delcour	KU Leuven	Weinstein David	Columbia University		Economics
Gloria Mari-Beffa	University of Wisco	Rene Botnar	King's College London	Kathryn J. Boor	Cornell University	Willam Samuelson	Boston University	-	Economics
Jan DeGier	The University of I	Daniel Rueckert	Imperial College London	Daniel J. Inman	University of Michigan-Ann	Yingvi Oian	Tsinghua University	+3	Economics
Jens Marklof	University of Bristo	Ernst Rank	Technical University Munic	Tom Shih	Purdue University - West L	Dan Nicolae	University of Chicago		Statistics
Jonathan Christopher Mattingly	Duke University	Gerhard Kramer	Technical University Munic	Richard Bamler	Technical University Munici	David A Stephens	McGill University	1-1	Statistics
Nitu Kitchloo	Johns Hopkins Un	Justin Zobel	The University of Melbour	Habilit Kuroch Thuro	Technical University Munic	Huibin Zhou	Yale University		Statistics
Ronald Cools	KU Leuven	Luca Viganò	King's College London	George Banting	University of Bristol	Mark G. Low	University of Pennsylvania		Statistics
Chengtong Qiu	Tsinghua Universit	Manos Varvarigos	Monash University	Joseph Schlessinger	Yale University				
Benjamin Grinstein	University of Califo	Mark D. Hill	University of Wisconsin - I	Kurt Fagerstedt	University of Helsinki	Richard A. Davis	Columbia University		Statistics
Benoît Deveaud	Swiss Federal Insti	Sasu Tarkoma	University of Helsinki	Marcus Koch	Heidelberg University	Steven Gilmour	King's College London	22	Statistics
Douglas Natelson	Rice University	Xiaodong Zhang	The Ohio State University	Mark Winey	University of California, Da	Victor Panaretos	École polytechnique fédérale de Lausanne	+	Statistics
Einan Gardi	The University of E	Shimin Hu	Tsinghua University	Mike Benton	University of Bristol	Xuming He	University of Michigan-Ann Arbor		Statistics
Hannu E. J. Koskinen	University of Helsi	Brian Illy	University of Sydney	Rudolf Aebersold	Swiss Federal Institute of Te	Yazhen Wang	University of Wisconsin - Madison		Statistics
Lyman Page	Princeton Universi	David Dzombak	Carnegie Mellon Universit	William Mcginnis	University of California, Sar	Jun Liu	Tsinghua University	#3	Statistics
Michael J. Morgan	Monash University	Carrier Dandalla	Columbia University	Helena Korpelainen	University of Helsinki	lain Scobbie	The University of Manchester		Law
Pablo Laguna	Georgia Institute c	Jeffrey Walker	Monash University	Antti Sukura	University of Helsinki	Kimmo Nuotio	University of Helsinki	+	Law

# Invited: 1500+ Participated: 200+ Universities: 54 Subjects: 45

Giovanni De Micheli	Swiss Federal Insti		The University of Queensl	Sean D. Sullivan	University of Washington	Soumitra Dutta	Cornell University		Business Administration
loe Dong	University of Sydn	Arumugam Manthiram	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND		Boston University	Batia Mishan Wiesenfeld	New York University		Management
Joel Jahnson	University of Bristo	Chris Davies		Benjamin Dwayne	University of Toronto	Bert De Reyck	University College London		Management
Kultegin Aydin	Pennsylvania State	David Bahr	Purdue University - West I		University of Sydney		And the state of t		- International Communication
Martin Vetterli	Swiss Federal Insti	Francesco Stellacci	Swiss Federal Institute of T		and the second s	Byron Keating	The Australian National University	Wife.	Management
Michael Bruenig	The University of (	Trancesco stenacci			Monash University	Frese Michael	National University of Singapore	<b>6</b>	Management
	The University of C	Peter Haynes	Imperial College London	David Pearce	New York University	Gudela Grote	ETH Zurich		Management
Chris Manzie	The University of	Daniel T. Schwartz	University of Washington	Eli Berman	University of California, Sai				
George J. Pappas	University of Penn	Emily A. Carter	Princeton University	George J. Mailath	University of Pennsylvania	Nelson Phillips	Imperial College London		Management
John Lygeros	Swiss Federal Insti		University of Toronto	Giovanni Peri	University of California, Da	Lan Xue	Tsinghua University	*2	Public Administration
Ross Mcaree	The University of (	John Sutherland	Purdue University - West I	John List	University of Chicago	Arun Upneja	Boston University	88	Hospitality & Tourism Management
Stefan Williams	University of Sydn		Imperial College London	Julian Wright	National University of Sing	John Fox	University of Illinois at Urbana-Champaign		Agricultural Economics
Daniel A. Fletcher	University of Califo	Mark Wiesner	Duke University	Khalil Fahad	University of Washington	Kenneth Foster	Purdue University - West Lafayette	-	Agricultural Economics
Eric Perreault	Northwestern Univ	Richard L. Corsi	The University of Texas at	Michael Ward	Monash University	Rachael Goodhue	University of California, Davis		Agricultural Economics
J.D. Humphrey	Yale University	Roger Beckie	University of British Colum	Rodney Strachan	The University of Queensla	Andrew Dillon	The University of Texas at Austin		Library & Information Science



# 27 Awards in 19 Subjects 94 Journals in 33 Subjects





# **Future Efforts**

- Keep updating existing rankings
- Develop new rankings with ShanghaiRanking's spirit
- Develop new criteria for excellence with ShanghaiRanking's spirit
- Help universities on strategic management





# Perspectives from Institutional Research

Mānoa Institutional Research Office (MIRO)





# MIRO's Efforts

- Prepare Data for Rankings
- Make Ranking Information Available through MIRO Website
- Collaborate with the Communication Office on Ranking Stories
  - Focus on International Rankings
  - Provide a Broader Context of Many Rankings
  - Talk about Subject Rankings
- Provide Training to Campus Community
- Build Bridge between Higher Ed and Rankers



Centralize Ranking
Information on IR
Office's Website at
University of Hawai'i
at Mānoa



Home Reports

Rankings

Survevs

Facts Decision Support



### MĀNOA INSTITUTIONAL RESEARCH OFFICE

### Rankings

methodology. MIRO collects information on how Mānoa is ranked internationally and nationally, as well as rankings about colleges or programs. Because there is no one ranking that can accurately and thoroughly describe Mānoa or its programs, the different perspectives reflected by these rankings help to draw a picture of the excellence of the university. For questions about ranking methodologies, please contact the organizations that publish the rankings directly. To provide information about new



rankings, please contact us by e-mail. The University of Hawai'i at Mānoa is ranked by the following international and national ranking organizations:

Shanghai Jiao Tong University Academic Ranking of World Universities

**NTU Ranking** 

TIMES World University Rankings/Global Institutional Profiles Project

**QS World University Ranking** 

**U-Multirank** 

U.S. News

#### U.S. News Best Grad Schools Rankings (2015) (Released on March 10, 2015)

- · Graduate College of Education: 76
- . Graduate School of Law: 82
- · Graduate College of Library and Information Sciences: 27
- · Graduate School of Medicine-Primary Care: 19

# Provide Sufficient and Relevant Ranking Information

Shanghai Jiao Tong University Academic Ranking of World Universities

#### Academic Ranking of World Universities (ARWU) by Shanghai Jiao Tong University

The Academic Ranking of World Universities (ARWU) is published by Shanghai Jiao Tong University, and is also known as Shanghai Ranking. All the data used in ARWU is from third parties and publicly available. ARWU does not use data directly from universities. This ranking uses six indicators to rank world universities. Each year more than 1200 universities are ranked and the best 500 are published. For more information, please click here.

Released on August 22, 2017:

• UHM Overall Ranking in the World: 201-300

• UHM Overall Ranking in U.S.: 71-99

· Sciences: 101-150 (Released in 2016)

· Social Sciences: 76-100 (Released in 2016)

Released on June 28, 2017:

Earth Sciences: 17

· Marine/Ocean Engineering: 48

Education: 101-150Ecology: 151-200Management: 201-300

Environmental Science Engineering: 301-400

· Biological Sciences: 401-500

• Human Biological Sciences: 401-500

Agricultural Sciences: 401-500

Note: Rankings appear as a range when no more specific information is available.

**ARWU Ranking Methodology** 

# Resources on MIRO's Ranking Page

### Rankings Q&A

MIRO led panel presentations with major international rankings at the annual conference of the Association of Institutional Research (AIR) in 2015 and 2016. Each presentation was selected to be among only 30 sessions that were recorded, and both are available through AIR's digital pass program. Please select the following links to access the presentation documents. 2015 AIR presentation "International Ranking and Institutional Research" (Presenters' Bios, PowerPoint Presentation, International Ranking Q&A, AIR Recorded Video). 2016 AIR presentation "International Rankings Go Deeper and Wider: More Subjects and More Universities to be Ranked" (Presenters' Bios, PowerPoint Presentation, International Subject Ranking Q&A)."

2017 Release Time	Ranking Name	Ranking Type
March	QS World University Rankings (2017)	Subject (International)
	U.S. News: Best Grad Schools Rankings (2018)	Program (National)
June	ARWU (2017)	Subject (International)
	QS World University Rankings (2018)	Overall (International)
August	ARWU (2017)	Overall (International)
	ARWU (2016)	Field (International)
September	Times Higher Education (2018)	Overall (International)
	Wall Street Journal / Times Higher Education College Ranking (2018)	Overall (National)
	U.S. News: the Best Global Universities Rankings (2018)	Overall (International)
		Subject (International)
	U.S. News: Best Grad Schools Subject Areas Rankings (2018)	Subject (National)
	U.S. News: Best College Rankings (2018)	Overall (National)
	U.S. News: Best Online Program (2018)	Online Program (National)
October	Times Higher Education (2018)	Subject (International)

# Various Types of Rankings

- Institutional rankings: universities being ranked
  - QS: academic reputation, employer reputation, citations, etc.
  - U.S. News Best Global Universities: global research reputation, publications, citations, etc.
- Field rankings: broad subject fields being ranked
  - ARWU: Natural Sciences and Math, Engineering/Technology and Computer Sciences, Life and Agricultural Sciences, Clinical Medicine and Pharmacy, Social Sciences
- Subject rankings: more detailed rankings based on subjects
  - ARWU: Earth Sciences, Marine/Ocean Engineering, Education, etc.
  - U.S. News—Best Grad Schools Subject Areas Rankings: Arts and Sciences, Social Sciences, Education, etc.
- Program rankings: more detailed rankings based on programs
  - U.S. News—Best Grad Schools Rankings: Graduate College of Education, Graduate School of Earth Sciences, Graduate School of Law, etc.
  - U.S. News—Best Online Programs Rankings: Graduate Nursing

# **Important Notes**

- Institutional, field, subject, and program rankings are different rankings, based on different methodologies and data sources, even if they are published by the same organization.
- U.S. News and Times Higher Ed publish both global rankings and national rankings. In the global ranking, Mānoa has a world ranking and a U.S. ranking.
  - U.S. News global rankings 2017: Mānoa is ranked 104 is the U.S.
  - U.S. News best college ranking 2017 (National University Rankings): Mānoa is ranked 159 is the U.S.
  - Times Higher Ed's World University Ranking 2017: Mānoa is ranked 63 is the U.S.
  - The Wall Street Journal / Times Higher Ed's College Rankings: Mānoa is ranked 319 is the U.S.

# Four Major International Rankings (2017)











Ranking	In the world	In U.S.
Academic Ranking of World Universities (Shanghai Jiao Tong University)	201-300	71-99
TIMES World University Rankings (UK)	201-250	63
QS World University Rankings (UK)	341	66
US News Global Universities (US)	328	104

U.S. News the Best Global Universities Rankings	2014	2015	2016	2017
UHM Global Ranking		314	328	328
• UHM Overall Ranking in U.S.	104	105	104	104
Global Research Reputation in the world	214	214	228	
International Collaboration in the world	49	49	67	
Number of Ph.D.s Awarded in the world	257	257	384	
Subject Ranking of Geosciences in the world	28	28	28	28
• Subject Ranking of Social Sciences & Public Health in the world	×	215	260	260
Subject Ranking of Space Science in the world			138	138
Subject Ranking of Plant and Animal Science	9			288
Subject Ranking of Environment/Ecology				161

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U.S. News Best Grad Schools Rankings	2013	2014	2015	2016	2017
Graduate College of Education	65	74	76	66	69
Graduate School of Law	80	100	82	92	100
Graduate School of Law (part-time Law Programs)	29	100	30	28	29
Graduate College of Library and Information Sciences	27	27	27	27	28
Graduate School of Business (part-time MBA)	136			102	151
Graduate School of Earth Sciences (ranked in 2014)	34	34	34	34	34

US News Best College Rankings	2013	2014	2015	2016	2017
	158	168	161	169	159

US News Best Online Program	2016	2017
Graduate Nursing	60	61

# **U.S. News: Selected Subject Areas**

U.S. News Best Grad Schools Subject Areas Rankings	2013	2014	2015	2016	2017
College of Education					
o Graduate Rehabilitation Counseling	62	62	58	58	58
• Medicine					
o Graduate Communication Sciences and Disorders	204	204	204		224
Graduate School of Medicine—Primary Care	66	57	19		64
Graduate School of Medicine—Research	82	78	74		71
Natural Sciences					
o Graduate Biological Sciences (Cell and Molecular Biology program)	115	115	115	115	115
o Graduate Chemistry	140	148	148	148	148
o Graduate Mathematics	119	126	126	126	126
o Graduate Physics	93	85	85	85	85

# **QS Ranking**

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	2012	2013	2014	2015	2016	2017
World University Ranking	283	327	324	327	343	341
Overall Ranking in U.S.	61	72	68	65	67	66
Subject Areas Rankings						
Arts & Humanities						376
English Language & Literature	151-200	101-150		201-250	201-250	201-250
Linguistics	51-100	51-100	51-100	51-100	101-150	51-100
Modern Languages	42					201-250
Life Sciences & Medicine						395
Medicine				301-350	301-350	351-400
Agriculture and Forestry		101-150	101-150	101-150	101-150	101-150
Biological Sciences				251-300	251-300	251-300
Natural Sciences						321
• Earth & Marine Sciences	101-150	51-100	51-100	101-150	51-100	51-100
Environmental Sciences	ĵ.			201-250	151-200	201-250
Geography	32					151-200
Scocial Sciences & Management						
Communication & Media Studies				151-200		151-200
Education				151-200	151-200	201-250
Economics & Econometrics	35					351-400
History	101-150	151-200	151-200			



- Gain Better Understanding about Ranking
- Review and Compare Data Preparation Methods
- Rank the Rankings
- Develop Effective Ranking Communication Strategies
- Train Your Colleagues
- Prepare your story before rankings are released

