

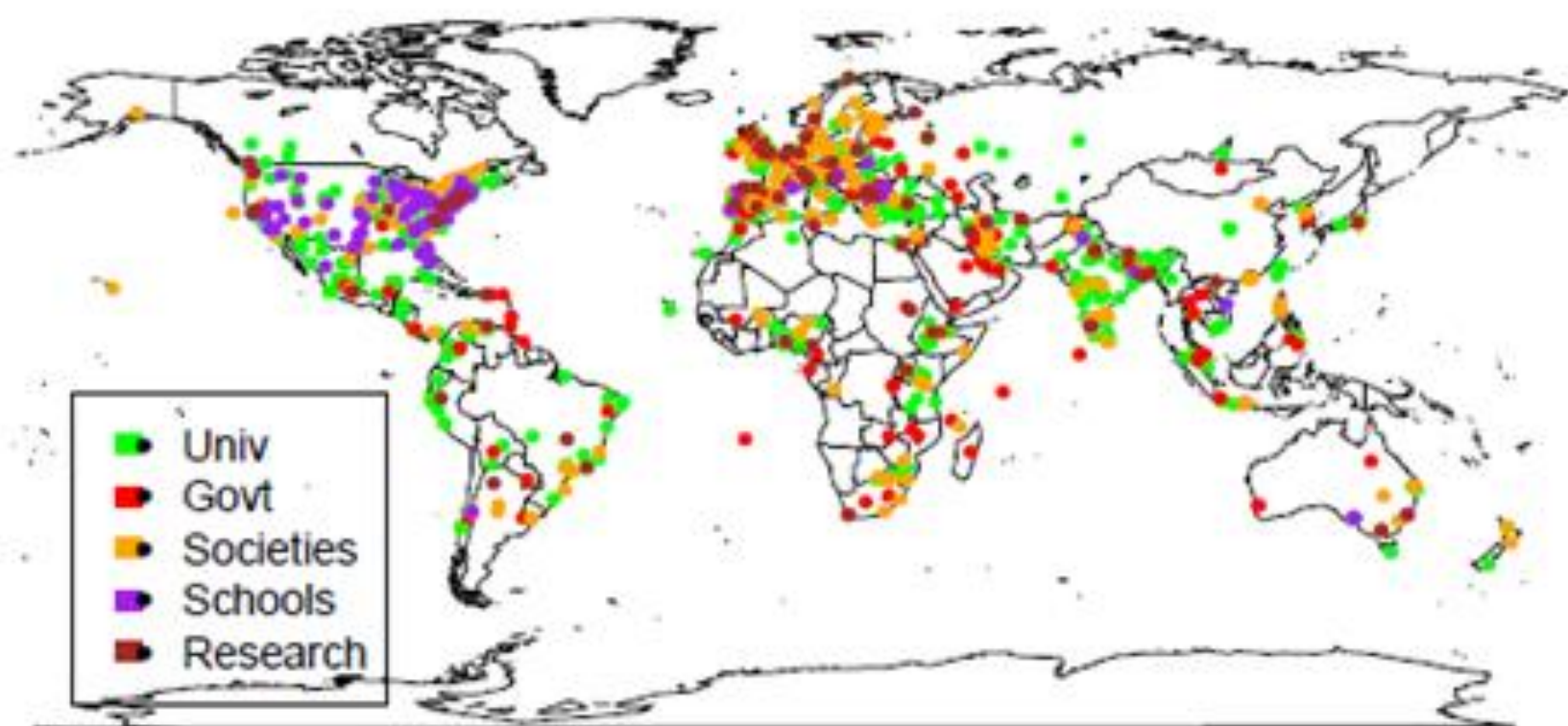
International Year of Statistics

www.statistics2013.org



Universities	812	40.2%
Business	363	18.0%
Government	311	15.4%
Professional Societies	208	10.3%
Secondary Schools	169	8.4%
Research Institutes	87	4.3%
ASA entities	71	3.5%
Total	2021	100.0%





significance

statistics making sense

2013

International
Year of
Statistics

Recognizing the Contributions of Statistics to Society Worldwide

Increase public awareness of the power and impact of statistics on all aspects of society

Joint Statistical Meetings

August 3-8, Montreal
www.amstat.org

Royal Statistical Society conference

September 2-5, Newcastle
www.rssconference.org.uk

IYS video and the Future of
Statistical Science workshop

November 11-12, Internet
www.statistics2013.net

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www.rss.org.uk





Nurture statistics as a profession, especially among young people

Promote creativity and development in the sciences of probability and statistics

Lemma 3.

Let X_i for $i \geq 1$ be from the Zipf-Poisson ensemble with parameter $\alpha > 1$. If $\tau \geq \lambda_n$, then

$$\mathbb{P}\left(\max_{i>n} X_i > \tau\right) \leq \frac{N^{1/\alpha}}{\alpha} \frac{\tau+1}{\tau+1-\lambda_n} \frac{\tau^{-1/\alpha}}{\tau-1/\alpha}. \quad 3.12$$

Proof.

First, $\mathbb{P}(\max_{i>n} X_i > \tau) \leq \sum_{i=n+1}^{\infty} \mathbb{P}(X_i > \tau)$ and then from (3.4)

$$\mathbb{P}\left(\max_{i>n} X_i > \tau\right) \leq \left(1 - \frac{\lambda_n}{\tau+1}\right)^{-1} \sum_{i=n+1}^{\infty} \frac{e^{-\lambda_i} \lambda_i^{\tau}}{\Gamma(\tau+1)}.$$

Now $\lambda_i = Ni^{-\alpha}$. For $i > n$ we have $\tau > \lambda_i = Ni^{-\alpha}$.

Over this range, $e^{-\lambda_i} \lambda_i^{\tau}$ is an increasing function of λ . Therefore,

$$\begin{aligned} \sum_{i=n+1}^{\infty} e^{-\lambda_i} \lambda_i^{\tau} &\leq \int_n^{\infty} e^{-Nx^{-\alpha}} (Nx^{-\alpha})^{\tau} dx \\ &\leq \frac{N^{1/\alpha}}{\alpha} \int_0^{Nn^{-\alpha}} e^{-y} y^{\tau-1/\alpha-1} dy \\ &\leq \frac{N^{1/\alpha}}{\alpha} \Gamma(\tau-1/\alpha). \end{aligned}$$

$$\mathbb{P}\left(\max_{i>n} X_i > \tau\right) \leq \frac{N^{1/\alpha}}{\alpha} \frac{\tau+1}{\tau+1-\lambda_n} \frac{\Gamma(\tau-1/\alpha)}{\Gamma(\tau+1)}.$$

As a result

Now

$$\frac{\Gamma(\tau-1/\alpha)}{\Gamma(\tau+1)} = \frac{\Gamma(\tau+1-1/\alpha)}{\Gamma(\tau+1)} \frac{1}{\tau-1/\alpha} < \frac{\tau^{-1/\alpha}}{\tau-1/\alpha}$$

by Gautschi's inequality (3.8), with $s = 1 - 1/\alpha$, establishing (3.12).



The International Year of Statistics (Statistics2013)



What is **Statistics**?

What is Statistics?

When many people hear the word "statistics," they think of either sports-related numbers or the college class they took and barely passed. While statistics can be thought about in these terms, there is more to the relationship between you and statistics than you probably imagine.

[Read More](#) →



Activities

Statistics2013 Activities

MARCH 25, 2013

Below are the Statistics2013 events and activities from around the world this week. To see the complete list of activities for 2013, please [click here](#).

- **March 7-31, 2013** — [Statistics2013 Launch in the Cayman Islands](#), Cayman Islands' Economics and Statistics Office, Grand Cayman, Cayman Islands
- **March 15-April 8, 2013** — [Statistical Olympiad in Spain](#), Spanish National Statistics Institute (INE) and Faculty of Statistical Studies from Universidad Complutense of Madrid, Spain
- **March 24-28, 2013** — [Sixth Brazilian Conference on Statistical Modelling in Insurance and Finance](#), Brazilian Statistical Association and the Institute of Mathematics and Statistics at University of São Paulo, São Sebastião, Brazil
- **March 25-28, 2013** — [Turing Gateway to Mathematics](#), Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom

getstats

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How Many Telegrams, Ma'am?

MARCH 25, 2013

[getstats](#) »

In 1917, the first year for which there are records, King George V sent birthday cards to 24 British centenarians to congratulate them on turning 100. Since the beginning of her reign Elizabeth II has sent over 110,000 100th birthday telegrams/cards to delighted recipients.

[Read More](#) →

[getstats](#) is a campaign of the [Royal Statistical Society](#).



World's Newest Statistical Office Celebrates Statistics2013

MARCH 25, 2013
[Statistics2013 Blog](#) »

The Statistics Centre—Abu Dhabi (SCAD) is very pleased to participate in the International Year of Statistics. As possibly the newest statistical office in the world (SCAD commenced its work in April 2009), this high-profile event will shed a positive light on SCAD and statistics generally in the Emirate. In fact, SCAD will be hosting an international conference in May on the role of statistics in contributing to development, focusing specifically on the importance of quality in administrative data. Additionally, an Abu Dhabi Statistical Excellence Award

[Read More](#) →

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Why Statistics is Important to You

Improving Human Welfare in 2013



Give the gift of

significance

to your local high school.

Statistic of the Day

In Hong Kong last year, total port cargo throughput decreased by 3% compared with a year earlier to 269.3 million tons. Within this total, inward and outward port cargo dropped by 2% and 4% to 154.7 million tons and 114.6 million tons, respectively.

Provided by [Census and Statistics Department](#)

A World Without Statistics



Getting on the map



Statistics New Zealand
TAUANGA A HIOHIO

Welcome to Statistics New Zealand
Celebrating the International Year of Statistics 2013

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Fine delivery proves a winner in the Tongan speech competition

Age was no barrier for Pacific Christian School Year Eight student Joseph Pillu when he competed in the Statistics New Zealand speech competition on the Tongan stage at the cultural festival Polyfest on Saturday 16 March.

Despite being only in Year Eight, Joseph won the Year Nine competition with his speech about the International Year of Statistics 2013. Fellow Pacific Christian School student Eluete Lau'i also did well in the same competition taking out third place despite only being in Year Seven.

In his speech Joseph spoke about what statistics had taught him from population and social information through to economic data.



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News and Events » The International Year of Statistics



The International Year of Statistics (Statistics2013)

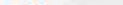
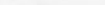
The International Year of Statistics ("Statistics2013") is a worldwide celebration and recognition of the contributions of statistical science. Through the combined energies of organizations worldwide, Statistics2013 will promote the importance of Statistics to the broader scientific community, business and government data users, the media, policy makers, employers, students, and the general public.

International Institute of Statistical Education
National Research University Higher School of Economics

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Director: Alexey Ponomarenko

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Community college students and the international year of statistics

INTERNATIONAL YEAR OF STATISTICS | MARCH 28, 2013 | BY: HASAN NAHM | [+ Subscribe](#)

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- High School Career

The year 2013 has been designated The International Year of [Statistics](#). One of the core subjects that community college students have to pass to transfer to California State University (CSU) and University of California (UC) systems is "Elementary Statistics." For these students, the [website of the 2013 Year of Statistics](#) has been an eye-opener. They are finding the articles and observations by statisticians from around the world practical, inspiring and enormously helpful for pursuing a career in the statistics.

[News](#)


Jan 18

Happy international year of statistics! A message from the director

The International Statistical Institute (ISI) has announced the celebration of the International Year of Statistics in 2013. This initiative will raise public awareness of statistics and is explained by a sharp increase in information flows and, accordingly, a predicted increase of statistical jobs which is estimated to reach 4.4 million globally in the near future. The planned activities of the International Year of Statistics include lots of amazing events worldwide which will highlight the contribution of statistics – World Statistics Congress, a number of conferences, exhibitions, release of a textbook for schools, dedicated information videos, election of the “statistician of the year” etc.

More than 1,400 government agencies and civil organizations, universities, professional and scientific societies, schools and other entities, including those from Russia, are combining energies to promote this initiative.

The International Institute for Education in Statistics (MISO) as a centre for statistics in the National Research University Higher School of Economics (HSE) is set to make a substantial contribution to the Year of Statistics. As professionals we do understand that statistics is much more than numbers in ROSSTAT releases or sports publications. Statistical science has powerful and far-reaching effects on everyone, yet most people are unaware of how it improves their lives. It was indispensable in



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Free talks from Lancaster University statisticians

Experts from the Department of Mathematics and Statistics are to give free public talks as part of the 2013 *International Year of Statistics*.

They will explain how a knowledge of statistics can help with drug safety to food defences and renewable energy.

The first talk, on **Wednesday 13 February at 7pm**, is at Lancaster Royal Grammar School where Professor John Whitehead will invite some of the audience to take part in a mock clinical trial for an imaginary new drug to showcase the issues involved in opinion-based medical research.





[printer-friendly version](#)

Statistics2013—Reaching The Public

The DO Loop
Statistical programming in SAS with an emphasis on SAS/IML programs

SAS BLOGS HOME • THE DO LOOP • JEROME CORNFIELD: THE STATISTICIAN WHO ESTABLISHED RISK FACTORS FOR LUNG CANCER AND HEART DISEASE

Jerome Cornfield: The statistician who established risk factors for lung cancer and heart disease

Rick Wicklin | MARCH 18, 2013

One purpose of this International Year of Statistics is to spread the word that the field of statistics benefits society. As part of the International Year, many organizations, including SAS and the American Statistical Association (ASA), are turning to history to illustrate how statistics is vital to the health and welfare of the world.

About this blog
Rick Wicklin, PhD, is a senior researcher in computational statistics at SAS and is a principal developer of PROC IML and SAS/IML Studio. His areas of expertise include computational statistics, statistical graphics, and modern methods in statistical data analysis. Rick is author of the book *Statistical Programming with SAS/IML*.

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2013: The International Year of Statistics

Mar 20, 2013

Freiburg, Germany is celebrating the International Year of Statistics this week with two events, the 59th Biometric Colloquium and the Joint Statistical Meeting (Deutsche Arbeitsgemeinschaft Statistik). The International Year of Statistics (Statistics2013) is a year-long event hosted by over 1,800 international organizations. The purpose is to nurture public discourse on the importance of statistics, offer young people an idea of job opportunities in the field, and allow for an exchange of ideas to foster creativity. The events range from ultra-

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Sobre estadística y estadísticos: ¿razón para celebrar?

Al festejar el Año Internacional de la Estadística, publicamos el texto de un especialista, quien nos explica cómo incide esta disciplina en la vida cotidiana



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Winners announced! Click here to see the full list

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SCAD organizes lecture on 'Meeting Customer Needs with Confidence'

United Arab Emirates: Thursday, March 07 - 2013 at 09:24

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Guyana to observe International year of Statistics

March 8, 2013 by Editor

The busy job over the next ten years will be statistics.

This statement by the chief economist at Google was quoted as the Government of Guyana and the Caribbean Secretariat on Wednesday jointly launched activities to mark the International Year of Statistics that is being observed under the theme 'Statistics in Everyday Life. Let us Educate and Appreciate!'

Dr. Philomen Harrison, Project Director, Regional Statistics Programme at the Secretariat used the quotation to highlight the increasing importance of data gathering and dissemination in today's world.

Dr. Harrison was speaking at the launch which was held at the Secretariat, Georgetown, and featured presentations on the importance of statistics in everyday life, as well as addresses by Ambassador Helen LaFollette, Canadian

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ABS launches International Year of Statistics at NatStats

4th Mar 13

The Australian Bureau of Statistics will be hosting the third NatStats conference in Brisbane later this month, at which time it will officially launch the International Year of Statistics and a list of Australia's most 'essential statistical assets' will also be revealed.

Brazil



Philippines



Bulgaria



Bulgaria



Scotland



Lithuania



Germany



Indonesia



Croatia



Catalonia (Spain)



Russia



Ethiopia



Canada



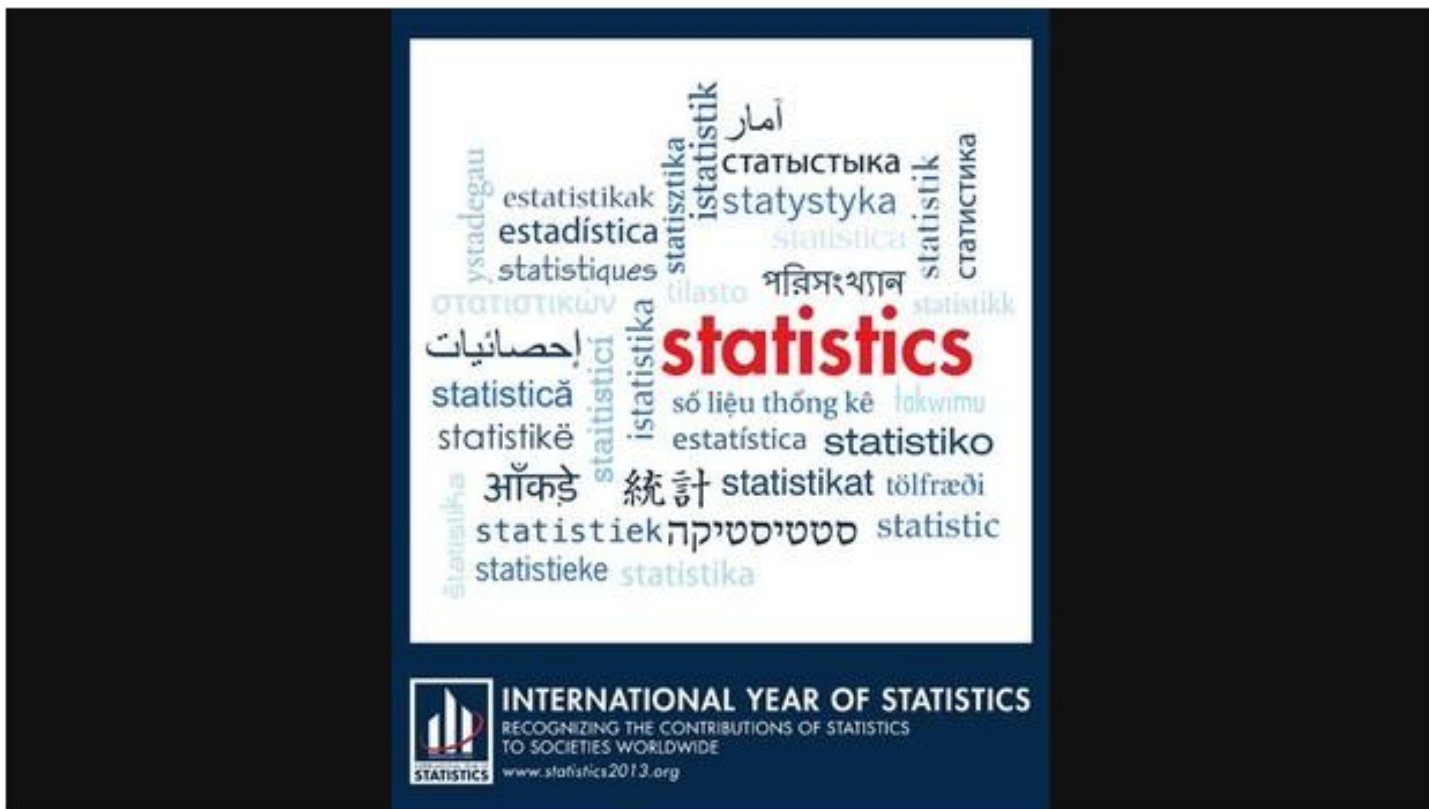
Mexico



<http://www.examiner.com/article/community-college-students-and-the-international-year-of-statistics>

Community college students and the international year of statistics

INTERNATIONAL YEAR OF STATISTICS | MARCH 28, 2013 | BY: HASAN RAHIM | + *Subscribe*





Video contest

Panel of judges

Hans Hockey, New Zealand

Donna LaLonde, USA

Olga Obratzsova, Russia

Christopher Olsen, USA

Danvers Omolo, Kenya

Ernesto Sánchez, México

Theresa Utlaut, USA

Geert Verbeke, Belgium

Christopher Wild, New Zealand

Runner-up best overall video

“Why Statistics matters?”

by Tom Furniss (tomfurniss.nz@gmail.com)

<https://www.youtube.com/watch?v=x3lbiPWJMHl&feature=youtu.be>

Runner-up Best non-English Language video

“What do you know about statistics? Что такое статистика?”

by [Yulia Balioz](#) (Kirill Muradov, kmuradov@hse.ru, julibalioz@bk.ru, ponomarenko@hse.ru)

http://www.youtube.com/watch?v=fMZn9_0jk1E&feature=youtu.be

Best overall video

First prize

“The Importance of Statistics”

by Jason Girouard (jasontgirouard@gmail.com)

http://www.youtube.com/watch?v=gOzlQ_EyJ0o&feature=youtu.be

International Year of Statistics official video

<http://statistics2013.org>

workshop in London in November

- Topic – Future of Statistics
- Involvement of younger statisticians?
- Funding of participants?

Three events organised by King's College London, Ipsos-MORI and the RSS

May 14 Understanding and trust in statistics

July 9 Gaps in perceptions of statistics

November The nature of evidence

