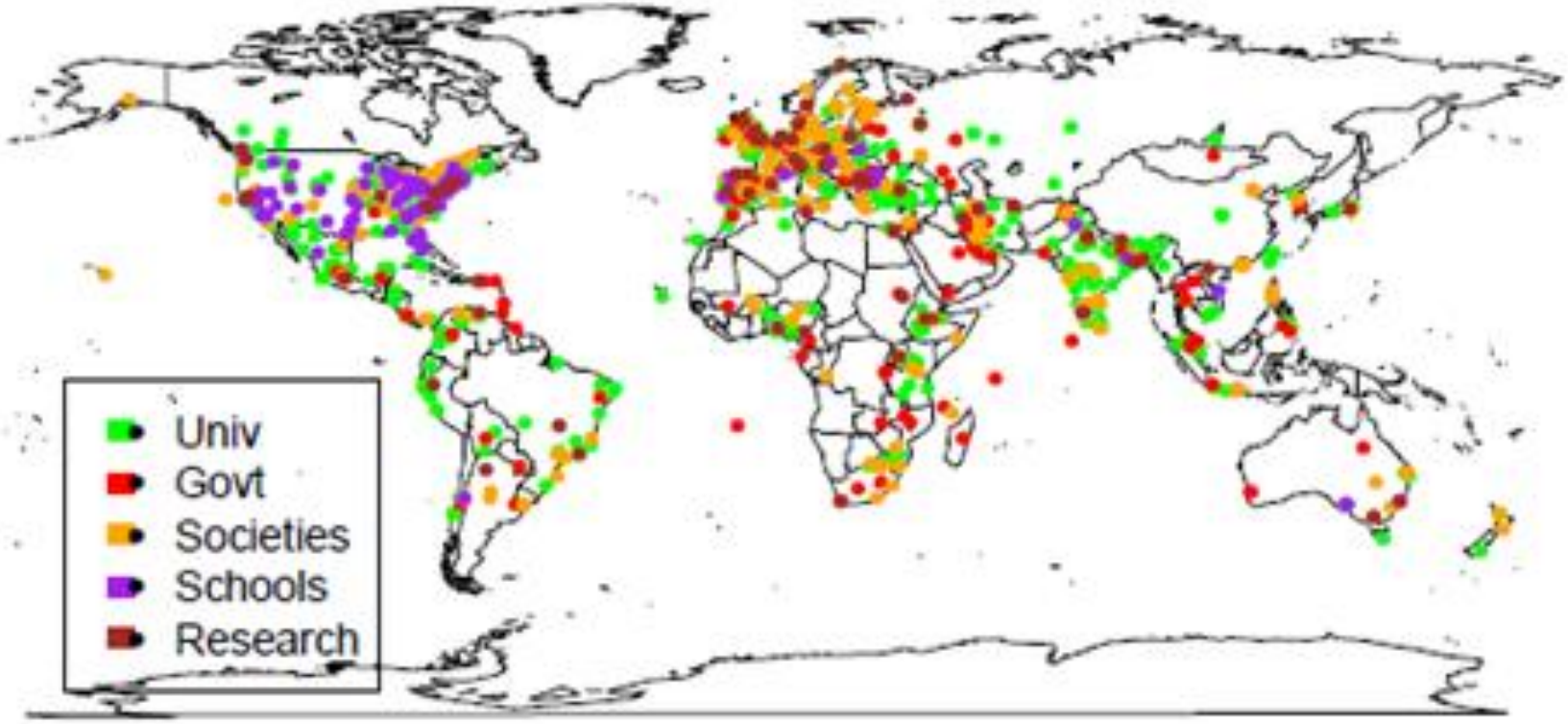
International Year of Statistics

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%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Societies
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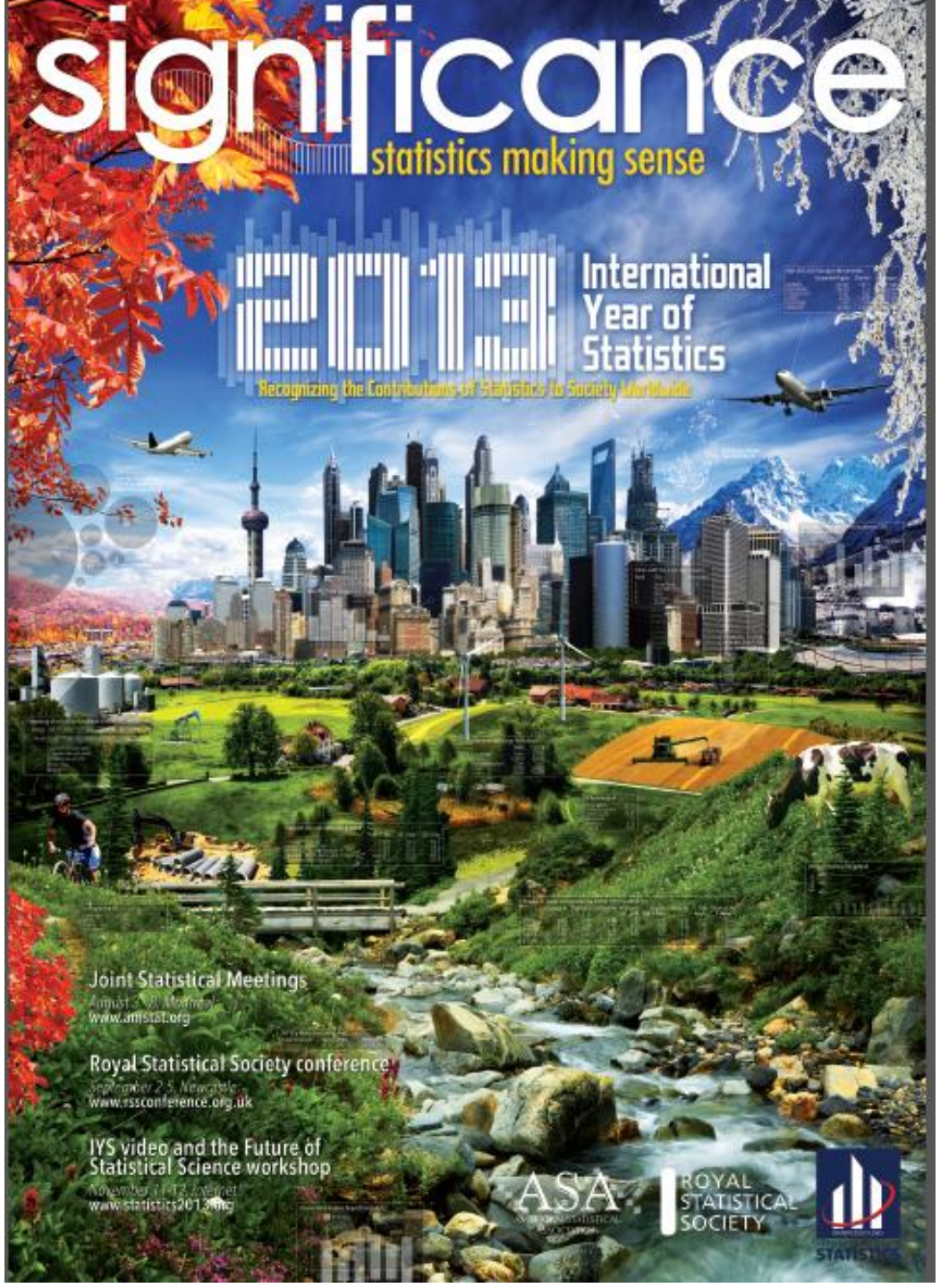
Research



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

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 $i \geqslant 1$ be from the Zipf–Poisson ensemble with parameter $\alpha > 1$. If $\tau \geqslant \lambda_n$, then

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

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, $e^{-\lambda}\lambda^{\tau}$ is an increasing function of λ. Therefore,

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

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

STATISTICS2013.ORG
INTERNATIONAL YEAR OF STATISTICS

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 ROYAL STATISTICAL SOCIETY

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.

BLOG

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

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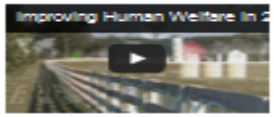
Why Statistics is Important to You



Give the gift of significance to your local high school.

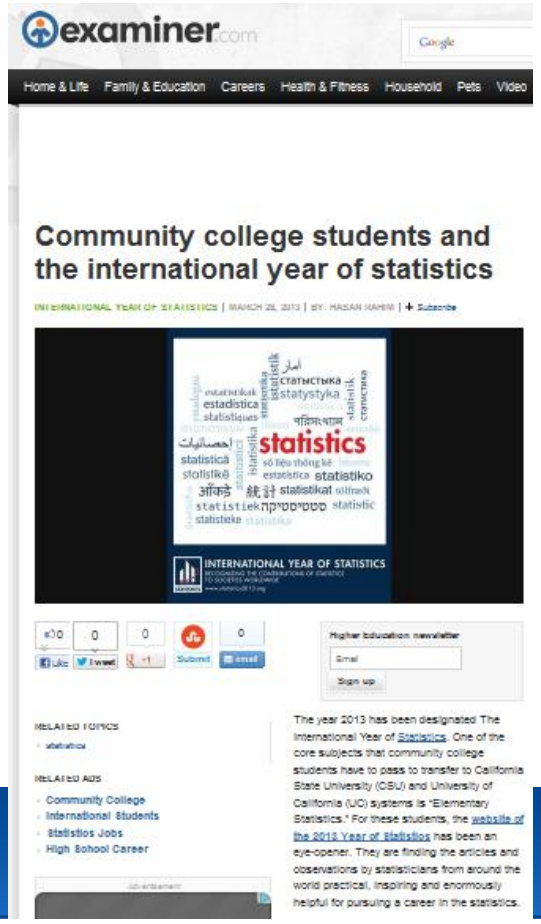
Statistic of the Day

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



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 15, 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.

search this blog SEARCH

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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SCAD organizes lecture on 'Meeting Customer Needs with Confidence'

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

Statistics Centre - Abu Dhabi (SCAD) organized a lecture entitled 'Meeting Customer Needs with Confidence', presented by Dr. Stephen Penneck, President of the International Association for Official Statistics, as part of a series of specialized lectures in statistics, organized in the context of SCAD's strategic initiative for promotion of statistical awareness and the Centre's celebration of the International Year of Statistics, also known as 'Statistics 2013'.

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Guyana to observe International year of Statistics

March 6, 2013 By Editor

The sexy job over the next ten years will be statisticians.

This statement by the chief economist at Google was quoted as the Government of Guyana and the Caricom 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, Turkeyen, and featured presentations on the importance of statistics in everyday life, as well as addresses by Ambassador Irwin LaRocque, Caricom

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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

International Year of Statistics
Participation to date: 1661 organisations in 114 countries
The online calendar in the Activities list at www.statistics2013.org gives examples of the many and varied ways in which statistics professionals across the world are marking the Year and these might stimulate ideas for your own contributions
THE ROYAL SOCIETY OF EDINBURGH

Lithuania

Germany

Indonesia

Croatia

Catalonia (Spain)

Russia

Ethiopia

INTERNATIONAL YEAR OF STATISTICS
"Statistics in Ethiopia: Emerging Opportunities, Challenges and Prospects"
Organizers:
vliruos
SHARING MINDS, CHANGING LIVES
VLIR_UOS, Belgium
Venue: Jimma University
Date: March 24, 2013

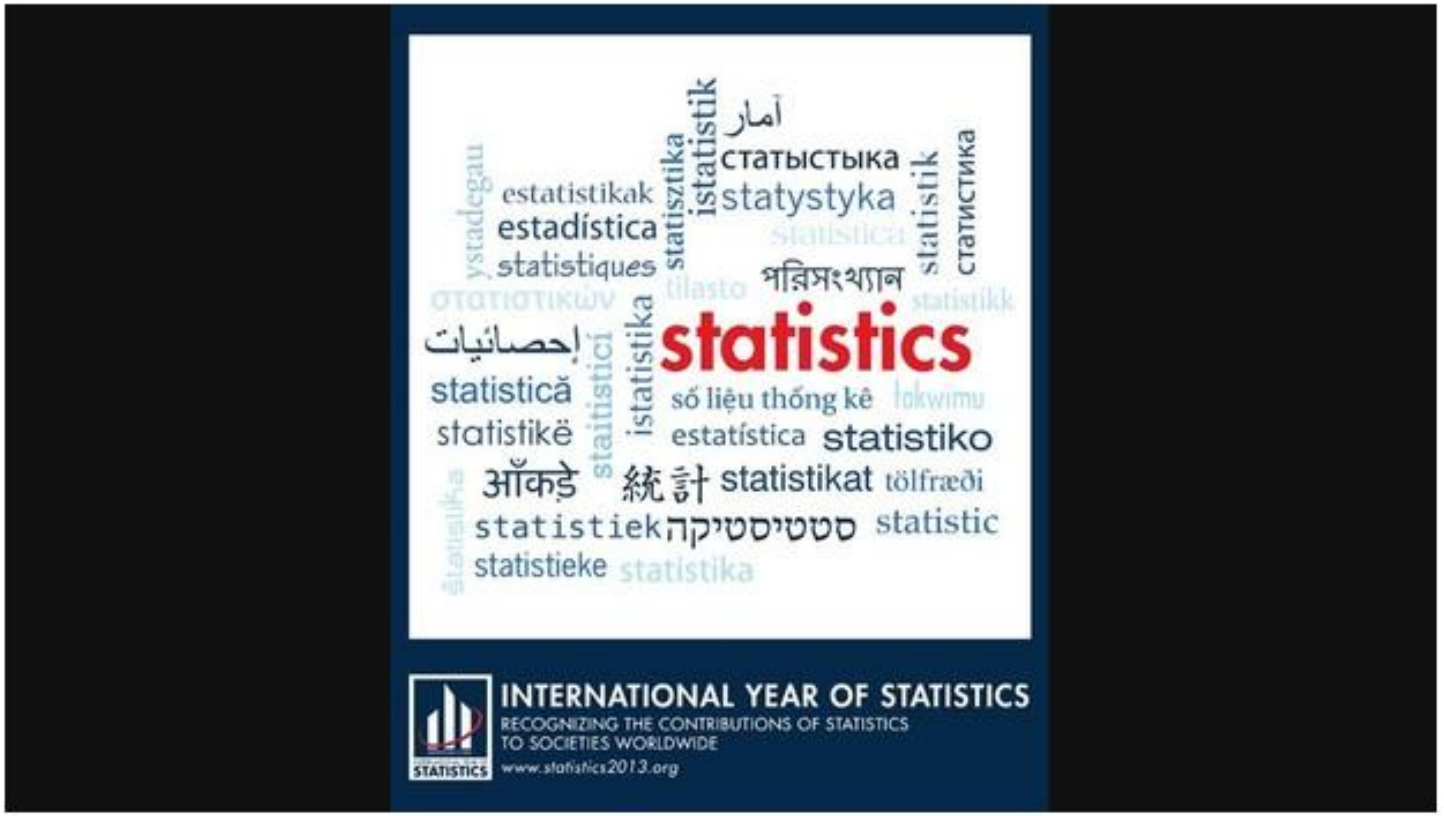
Canada

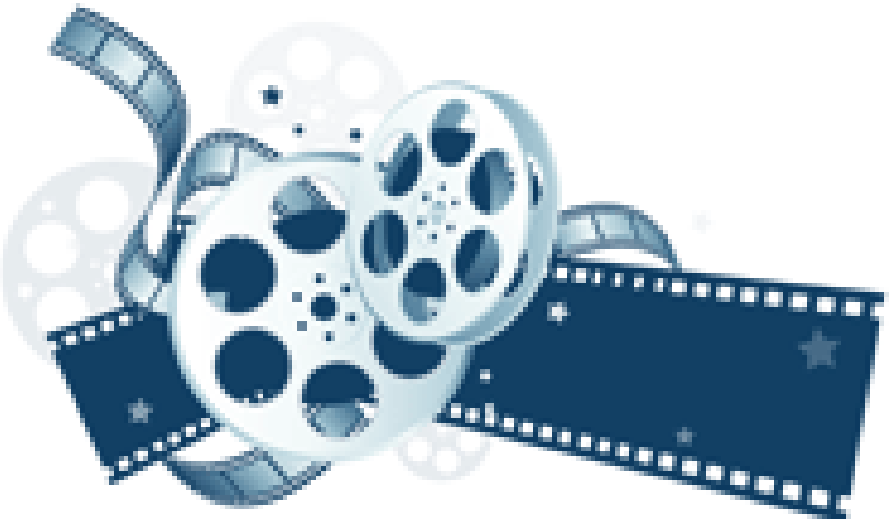
Mexico

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 Obraztsova, 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=x3lbiPWJMHI&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,juli-balioz@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

Abim
STATISTICS 2013