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SCIENCE CAREERS SPOTLIGHTS STATISTICS JOBS

Science Careers, a publication that provides a variety of content to assist scientists of all disciplines, backgrounds and experience levels navigate their career path, this week published online an article highlighting the growing opportunities in the field of statistics.

In the article, reporter Puneet Kollipara wrote the following about the job opportunities:

“...the range of statistics jobs is expanding, and many traditional jobs are changing. As technology proliferates, the mathematical methods at the heart of the discipline are reaching into new fields. Personal electronics, the Internet, scientific instruments (notably in genomics), and e-business are

spitting out troves of data that are crying out for analysis, spawning a ‘big data’ revolution. All that new data has the potential to provide new insights for businesses, new research possibilities for scholars, and new information that policymakers can draw on, among many other possibilities. It also means new jobs.”

Kollipara goes on to explain the expected demand for statisticians in the short-term future:

“The [U.S.] Bureau of Labor Statistics...projects that statistics jobs will grow 27% from 2012 to 2022, putting the profession in the ‘much faster than the average for all occupations’ growth category. The bureau puts statisticians’ median annual salary in 2012 at \$75,560.

“Meanwhile, a report from the McKinsey Global Institute, a consulting firm, says that businesses spanning virtually all sectors—from technology and social networking to pharmaceuticals and health care—are using information gleaned from large data sets to help them operate more smoothly or to provide better products or services. In order to meet the demands of the big data age, the study says, the United States must train 140,000 to 190,000 more quantitatively or analytically skilled people by 2018 than the country is on track to train.”

[Click here to read the entire article](#). *Science Careers* is a sister publication of *Science* magazine, one of the most prestigious and widely cited scientific journals in the world.

Also, today’s ASA at 175 blog has [more information about resources related to careers in statistics](#).

WOMEN IN STATISTICS CONFERENCE COMING IN MAY

The first-ever Women in Statistics Conference will be held May 15-17 in Research Triangle Park, which is located near Raleigh, North Carolina in the United States.

The event, branded *Celebrating Women in Statistics: Know Your Power*, will highlight the achievements and career interests of women in statistics. Senior, mid-level and junior stars representing industrial, academic and government statistical communities will unite at the conference to present their respective life’s work, discuss the ‘chutes and ladders’ of their career trajectories, and share their perspectives on the role of women in today’s field of statistics.

Participants will leave the conference with wider networks for mentoring and new ideas for collaborative proposals as well as increased visibility within their community. They also will take with them a list of action items to further increase the visibility of their contributions to the wider statistics community and the world.

Junior Researcher Travel Awards

The conference awards committee is distributing 25 or more partial travel awards to senior graduate students and post-graduate statistical researchers and analysts who will be attending the conference. To be considered for the travel award you must do the following:

- [Create a profile and login to the Women in Statistics website](#)

- [Submit a poster abstract](#)
- Complete the [Travel Award Application Form](#)

In the application, explain why you want to attend the conference, the number of years until you obtain your doctorate degree, and a description of your financial need to cover hotel and travel. Women in Statistics Conference organizers encourage all attendees to seek matching awards from their respective institutions. Priority will be given to ensure geographic, university and ethnic diversity. Awards will be announced this month. Questions about travel awards should be directed to awards@women-in-stats.org.

Applications are being accepted on a continuing basis. Travel award applications will close when the conference reaches 375 registrants, so apply early.

Register Now!

The early-bird registration period ends March 15. You can learn more about the Women in Statistics Conference and register for the event at <http://women-in-stats.org>.

YOUNG STATISTICIANS WRITING COMPETITION: WRITE WITH SIGNIFICANCE!

By Jennifer Rogers

[Significance](#) and the [Young Statisticians Section](#) of the Royal Statistical Society are once again hosting a competition to promote good writing about statistics. This time, the rewards are even greater! All budding writers within the first 10 years of their statistical career are invited to submit articles which would be suitable for *Significance* magazine.

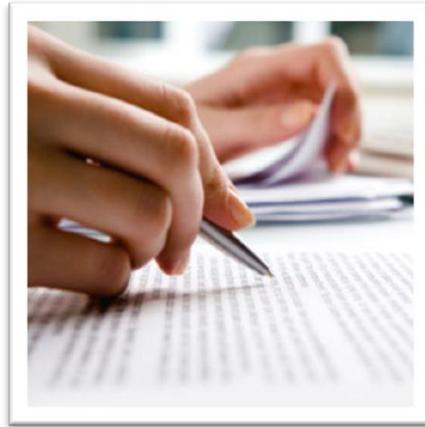
The winning article will, as before, be published in *Significance*. But this year, for the first time, the three finalists will also be invited to attend the [Royal Statistical Society Conference 2014](#) in Sheffield and present their work in a special session where we will be announcing the overall winner. It is an ideal chance for them to practice speaking before an enthusiastic and appreciative audience.

Articles should be between 1,800 and 3,000 words long and can include tables, figures, images and photographs. The style should be clear and easy to read—avoid the formal layout of an academic report—and technical terms and mathematics should be used sparingly if at all and suitably explained. End references are optional, but should be limited to three or four at most.

Anyone is welcome to enter, regardless of membership or affiliation. The only stipulation is that you should be 'young' (in career terms, not necessarily in age)—that is, you must be a student or within the first 10 years of your career. The article could be on work that you have done or it could explain the work of others. Only submissions in English will be considered.

Some hints: we are a magazine, not a peer-reviewed journal, so people who know little or nothing about statistics read us. Write for your readers: if you can interest them in the subject, your piece will have been a success. Try not to dumb down, but avoid being over-technical: If a schoolchild, a grandmother,

and everyone in between can understand it, no matter what their background knowledge, and if they can go away knowing a little more about statistics than they did before, then you can consider yourself one of the best communicators of statistics around—and you should be in with a good chance of winning. And if your topic is of use to the world or to society, or is just offbeat, unexpected, that helps as well. We want to show how statistics is relevant to all kinds of decisions that matter.



Manuscripts must be original and not under consideration for publication elsewhere, though we welcome magazine articles based on work in theses or in papers that have been submitted to or accepted by academic journals, provided the two are sufficiently different. All articles will be assessed by a review committee. The judges will be made up of representatives from both the Young Statisticians Section and *Significance*.

Three finalists will win a one-day registration to the Royal Statistical Society Conference 2014, which is being held in Sheffield (note that travel and accommodation costs will not be covered). The winning article will be published in *Significance* magazine. Runner-up articles will be published on the *Significance* website or in *Significance* at the editor's discretion. As an extra incentive, last year's winner, Damjan Vukcevic, also was featured on [BBC Radio 4's More or Less programme](#). The runners-up from 2013 were [John Stephenson](#), [Dane Korver](#) and [Altea Lorenzo-Arribas](#).

Email your submissions in a text/Word file or as a PDF to Jennifer.Rogers@lshtm.ac.uk. The writing competition closing date is May 30.

PUBLISH SOON, PUBLISH OFTEN WITH HELP FROM THE LIBRARY OF ALEXANDRIA

By Ismail Serageldin, Ph.D. and Ronald LaPorte, Ph.D.

"To get to know, to discover, to publish—this is the destiny of a scientist." (Arago)

Scientific publications and presentations are important to disseminate discoveries. These also determine your future. The more you publish and present, the better your position, the higher your raise and the greater the chance for promotion. In short, academics who publish and present, advance in their careers.

Scientific publishing and presentations are skills to master, not to fear.

We will help you hone your scientific publication and presentation skills. These skills are not difficult, but take practice. The Bibliotheca Alexandria (Library of Alexandria, Egypt) and the Supercourse at the University of Pittsburgh in the United States have established a free website, with rules and tools provided by some of the leading scientists in the world to help you and your students develop publication and presentation skills that will help each of you to advance scientifically. This is a one-stop shopping center for publishing and presenting and success in academia.

Publish Fast, Publish Frequently

If you would like to learn publication and presentation skills, please come to the Library of Alexandria at:

<http://ssc.bibalex.org/helpdesk/introduction.jsf> (BA Superhelp desk. Contact me LaPorte at the WHO Collaborating Centre (ronaldlaporte@gmail.com) (P: 412 915 9415).

The Supercourse effort is described by Dr. Serageldin in a YouTube video at:

http://www.youtube.com/watch?v=2Z_CsRVbBCI

Please forward this information to your students and friends who want to publish and present. Also post it on Facebook and LinkedIn and Tweet this information to others. Also, if you know journal editors, ask them to link the help desk to their publication's author instructions page. You also can get translations of this information in Russian, Arabic, Japanese, Spanish, Chinese and Tagalog at the Library.

Serageldin is Head of the Library of Alexandria, Egypt; LaPorte is Supercourse director, WHO Collaborating Center, Professor University of Pittsburgh, and the BA/Supercourse Team.

THE WORLD OF STATISTICS NEEDS YOUR HELP

Now that the [new website for The World of Statistics](#) is up and running, we need your help.

You can help move The World of Statistics website up in the list of Internet search results by linking to the new website address—www.worldofstatistics.org—from your organization's website and replacing the old Statistics2013 logo with the new logo for The World of Statistics and linking it to the new website. [You can download the new logo here.](#)

Some other things your organization can do to help the cause include:

1. Update existing links to www.statistics2013.org on your website so that these point to www.worldofstatistics.org
2. Change all references to Statistics2013 on your website to The World of Statistics and link to the new website (www.worldofstatistics.org)
3. Change your Facebook page information, links and logos so that these reference The World of Statistics. Also, share information about and publicize The World of Statistics on your organization's social media accounts, including Facebook and Twitter

4. Post a version of The World of Statistics logo in your language on your organization’s website. [We currently have nine language versions available for download.](#) To request a language-customized logo, email the following information in a PDF document to Jeff Myers at jeffrey@amstat.org:
 - a. The interpretation in your language of: “The World of Statistics”
 - b. The interpretation in your language of: “Participating Organization”
5. If you have a linked Statistics2013 banner on your organization’s website, please remove it and replace it with a new banner for The World of Statistics and link the new banner to www.worldofstatistics.org. [You can download these new banners here.](#)
6. The World of Statistics Twitter account is @astatworld. Start following us today. Be sure to retweet our tweets and also mention The World of Statistics—hashtag #TWOS—in your tweets.
7. If your website has content about Statistics2013, please delete it and replace it with [copy about The World of Statistics](#).
8. As you did with Statistics2013, include mentions of The World of Statistics in all your organization’s online communications.

Working together, we’ll move up The World of Statistics in all search engine results.

SHARE YOUR NEWS & EVENTS THROUGH THE WORLD OF STATISTICS

Tell your colleagues in the worldwide statistical community and the public about your organization’s events through the popular The World of Statistics 2014 Activities Calendar. [Using this brief webform](#), it’s easy to submit information about your event so it is added to the activities calendar for all to see.

After your event is over, you can send us a story about it for this newsletter. We have developed [this easy-to-use webform](#) you can use to submit your event stories and other news about your organization’s activities to promote and advance the statistical science profession. These event stories and news items will be featured in an upcoming issue of this newsletter.

Send us your calendar and news items now!

THE WORLD OF STATISTIC2014 ACTIVITIES CALENDAR—MARCH

Following are The World of Statistics participating organization events and activities around the world this month. To see the complete list of activities for 2014, [click here](#).

- **March 5-7, 2014** — [Conference on Data Analysis](#), Los Alamos National Laboratory Statistical Sciences Group, Santa Fe, New Mexico
- **March 6, 2014** — [The Janet Wittes Honorary Symposium on Large-Scale Data Inference](#), Social & Scientific Systems, Inc., Silver Spring, Maryland, USA
- **March 6-7, 2014** — [Stata Fast Track Workshop](#), Applied Quantitative Methods Network (AQMeN), Edinburgh, United Kingdom
- **March 10-13, 2014** — [60th Biometric Colloquium](#), German Region—International Biometric Society, Bremen, Germany

outcomes in a real conference format. Students in the targeted fields had the opportunity to present their work in statistical methods applied to chemistry within international standards to a mixed audience. This mini conference had been held twice: November 17, 2011 to celebrate the International Year of Chemistry and last November to mark the International Year of Statistics. Both editions were co-hosted by the University of Veracruz, one of the largest universities in México.

United Kingdom—The 2014 International Conference of the Royal Statistical Society (RSS) will take place September 1-4 at [Sheffield City Hall](#) in [Sheffield](#), South Yorkshire. The RSS Conference provides a unique opportunity in the United Kingdom for statisticians and users of statistics of all ages and professional backgrounds to gather and exchange knowledge and experiences, whether in the formal conference sessions or in the many networking opportunities. The conference annually attracts more than 400 participants, ranging from senior academic statisticians to new graduates and postgraduate students, with strong representation from the public sector as well as statisticians working in industry or as independent consultants. Attendees come from all corners of the world; typically 25 to 30 countries are represented at the conference. A strength of the conference is the breadth and variety of its programme of talks and workshops with sessions appealing to both theoretical and applied statisticians; those working in the areas of official, medical and environmental statistics (amongst many others); people working with data more generally; or those with a general interest in the topic. Abstract submission is [now open](#) for contributed talks and posters. [Click here for more information and to register.](#)



Ethiopia—The Ethiopian Statistical Association (ESA) will hold its 23rd Annual Conference April 26 in Addis Ababa. In advance of the event, themed “Statistics in Research and its Practices,” ESA is issuing a Call for Papers.

Submitted papers must be related to the following topics:

- Development of the statistical science
- Statistics and evidence-based decisionmaking
- Statistics and research
- Statistics as a fostering factor of development
- National statistics system in view of research development
- Statistics education system in Ethiopia
- Misuse of statistics in research
- Statistics in public/private sectors and official statistics

The deadline for submitting an abstract and full manuscript is March 28.

[Click here for more information about the Call for Papers, submission guidelines and the ESA conference.](#)

United States—The [2014 Joint Statistical Meetings \(JSM 2014\)](#) will be held in Boston, Massachusetts August 2–7 at the [Boston Convention and Exhibition Center](#). More than 6,000 statisticians—representing academia, business and industry, as well as national, state and local governments—from numerous countries will attend the world’s largest statistical science gathering.

JSM, which has been held annually since 1974, will be conducted jointly in 2014 by the [American Statistical Association](#), [International Biometric Society \(ENAR and WNAR\)](#), [Institute of Mathematical Statistics](#), [International Chinese Statistical Association](#), [Korean International Statistical Society](#), [International Society for Bayesian Analysis](#), [International Indian Statistical Association](#), [Royal Statistical Society](#), and [Statistical Society of Canada](#).

JSM activities include oral presentations, panel sessions, poster presentations, continuing professional development courses, an exhibit hall, a career placement service, society and section business meetings, committee meetings, social activities and networking opportunities. Event registration and hotel reservations open May 1. [Click here for more information](#) about JSM 2014.



During the event, ASA members will celebrate their organization’s 175th anniversary. Founded in 1839 in Boston, the ASA is the second-oldest, continuously operating learned society in the United States.

ASA President Nathaniel Schenker recently announced renowned statistician and historian Stephen M. Stigler will deliver the President’s Invited Address August 4. Stigler is one of the world’s foremost experts on the history of statistics, particularly the development of statistical methods in the natural and social sciences. In addition to numerous articles, he is the author of two books: [The History of Statistics: The Measurement of Uncertainty Before 1900](#) and [Statistics on the Table: The History of Statistical Concepts and Methods](#).

In his JSM talk—titled “The Seven Pillars of Statistical Wisdom”—Stigler will highlight seven great ideas that have evolved to form the pillars of statistical science. These ideas, Stigler will explain, can provide a way to see the future role of statisticians as an extension of the past—at least for the next quarter century—and provide a better understanding of the past.

In addition to Stigler’s President’s Invited Address, a special 175th anniversary reception featuring a champagne toast and performances by talented statistician-performers will mark the ASA’s milestone 175th anniversary.

NATIONAL STATISTICAL ORGANIZATION: NEWS & EVENTS

Following is the latest news and information from national statistical organizations participating in The World of Statistics:

United Arab Emirates—Statistics Centre—Abu Dhabi recently concluded the first quarter of its Household Income and Expenditure Survey (HIES) in the Emirate of Abu Dhabi by covering 100% of the targeted households. A total of 336 survey interviewers visited 2,175 households across the regions of the Emirate. Work in this phase of the project required 120,425 hours of fieldwork. Survey fieldwork will continue through the end of October and the results will be released in May 2015. Survey results will contribute to providing the most accurate and up-to-date data to decision and policymakers in support of strategic plans for development of all sectors in the Emirate.

For the HIES diary, SCAD distributes a hard copy of the questionnaire to participating households to record their daily purchases by commodity, quantity and value by entering the details of their spending on consumer goods during a predetermined reference period into the diary. Households record their purchases detailed by the major expenditure groups set out in the diary appendix. The diary is filled in with household purchases on a daily basis for seven days a week and collected by the interviewer at the end of the month.

SCAD’s fieldwork supervisors will honour cooperating households by giving them certificates of appreciation and a booklet of valuable vouchers. A number of households expressed appreciation of the role SCAD plays in support of development plans in the Emirate, commending the efforts and professionalism of the survey interviewers. [Click here for more information.](#)



A SCAD enumerator interviews an Emirate resident for the HIES.

Portugal—Statistics Portugal is inviting participants in The World of Statistics to access Acção Local Estatística Aplicada (ALEA) or Local Action Applied Statistics in English—which is a set of resources for teaching statistics intended for teachers and students of basic and secondary schools. [The ALEA website](#) offers a range of instructional resources teachers can use in their classrooms to teach statistics and statistical literacy.

Separately, the Portuguese Statistical Society has [a traveling statistics education program called Explorística](#). The exhibition teaches the fundamentals and practice of statistics and probability to students in upper basic and secondary schools (12 to 17 years). Describing five important phases of the statistical process—select, collect, describe, estimate and interpret—Explorística is organized in six modules that present their contents in the form of games and other interactive experiences. The main concepts taught are samples and census, location and dispersion measures (mean, median, standard deviation), graphs (box and whiskers, bar plots, histograms), random and non-random sampling, relative frequency, and probability.



JOIN THE WORLD OF STATISTICS

If your organization or an organization you know of isn't yet a part of The World of Statistics, encourage them to join. Joining is easy—just ask a representative of the group go to www.worldofstatistics.org and click on the “Join” icon on the top right-hand side of the homepage to become an official participating organization in The World of Statistics. Participation is valuable but is absolutely free!

The World of Statistics movement has grown to a total of 2,359 organizations from a whopping 129 countries. You can view the current participant and country lists by going to [The World of Statistics website](#).

CONTRIBUTE CONTENT TO THE WORLD OF STATISTICS WEBSITE

We also invite you and your organization to provide content for [The World of Statistics website](#). Several participating organizations and individuals already have sent us content contributions. You can join them! Areas for which contributions are needed include:

1. [The World of Statistics Blog](#)—For this homepage blog, which was popular on the Statistics2013 website, entries can be up to a maximum 500 words in length. You can write about nearly any topic related to statistics, including your organization, its activities oriented toward the goals of The World of Statistics, or your thoughts about a statistical issue. Since the website is public, please write in layman’s language and do not use statistical prose. To submit a blog entry (as a Word document), accompanying graphics and the author’s photo, email Jeff at jeffrey@amstat.org.
2. [At Work With Statisticians](#)—On the Statistics2013 site this section was titled “Statistician Job of the Week”. While we’ve rename this section, which also appears on the homepage, it still will focus on the many different types of jobs of statisticians. Again, no statistical prose and limit the article to a maximum of 300 words. Email your article and a photo of the statistician to Jeff at jeffrey@amstat.org.
3. [Statistics in Action](#)—Share information about how statistics are applied to solve problems around the world and other interesting takes on statistics. Remember, no statistical prose and limit the article to a maximum of 300 words. Email your article to Jeff at jeffrey@amstat.org.
4. [Around the World in Statistics](#)—Share information about how your organization is promoting statistics to the public. In the past, stories featured great infographics, programs, projects and a host of similar activities sponsored by statistical organizations. Limit the article to a maximum of 400 words and email it to Jeff at jeffrey@amstat.org.
5. [Career Resources](#)—Get a broader audience for your organization’s career resources—web-based and video—by spotlighting information about them on The World of Statistics website. We’ll post this information on the [International Career Resources](#) and [Statistics Career Videos](#) pages. Submit the information via email to jeffrey@amstat.org.
6. [Teacher Resources](#)—You can help teachers improve their instruction by sharing the statistics education tools and resources your organization has created. Send that information to Jeff at jeffrey@amstat.org.
7. [The World of Statistics 2014 Activities Calendar](#)—Send us information about your organization’s upcoming meetings, events and activities. We’ll post this information to the activities calendar so the public and other participating organizations can learn about the event. [Please use this easy webform](#) to submit your information.
8. [The World of Statistics Announcements](#)—You can submit short announcements about your organization’s work, activities, events and news for posting to the website’s Announcements page. These announcements can be up to 150 words in length. Email entries to Jeff at jeffrey@amstat.org.

SHARE YOUR JOB ON THE WORLD OF STATISTICS WEBSITE

Do you know an outstanding statistician deserving of recognition for his or her work—yourself, perhaps? If so, nominate yourself or your colleague for the [At Work With Statistician](#) page on The World of Statistics website. To do so, simply send a 250-to-300-word article about your colleague or yourself along with a photograph. In the article, explain the person’s/your job and his or her/your contributions

to the mission of his or her/your organization. We'll feature the profile on The World of Statistics website homepage. Send your submission to Jeff Myers at Jeffrey@amstat.org.

EVENT SUBMISSION FORMS ON WEBSITE

Two web-based forms make it easy for you to promote your organization's events on [The World of Statistics 2014 Activities Calendar](#) and have an article featured in this newsletter about the event or other organization news.

The first form—called the “Event Submission Form for the 2014 Activities Calendar”—provides you a quick and simple way to submit information about your organization's planned events. All you do is input the requested information and press the “Submit” button. We'll then take your event information and post it to The World of Statistics 2014 Activities Calendar. [You can access this form here.](#)

The second form—titled the “News & Post-Event Information & Photo Submission Form”—enables you to send us information about your organization's completed event and news as well as up to two photos for this newsletter. On this form, you are prompted for information about your event and you also can input a brief summary (up to 1,750 characters). After you submit your organization's news or event information, we'll run the photo and story in this newsletter so others can learn about your organization and its work to promote statistics. [Click here to access this form.](#)

GET THE WORLD OF STATISTICS LOGO & WEB BANNERS

It's time to update your organization's website by posting The World of Statistics logo. [Click here to download this new logo.](#)

Also, a series of new web banners are available for posting to your website. [You can access these banners by clicking here.](#)

GET A LANGUAGE-SPECIFIC LOGO

We now have The World of Statistics logos available in the following nine languages available for [download from the website](#):

- Bulgarian
- Czech
- Dhivehi
- English
- French
- German
- Portuguese
- Slovenian
- Spanish

To have a version of The World of Statistics logo created in your language, please e-mail to Jeffrey@amstat.org a high-resolution PDF document with the following:

- The interpretation of the phrase “The World of Statistics” in the appropriate font in this format: The World of Statistics=“The interpreted phrase”

- The interpretation of the phrase “Participating Organization” in the appropriate font in this format:
Participating Organization=“The interpreted phrase”

The high-resolution PDF document you provide will ensure the accuracy of your logo.

Once your language-specific logo is created, [it will be posted to The World of Statistics website here](#) and we will send you an email to let you know the logo is available for download.

FOLLOW US ON TWITTER & FACEBOOK

Get the latest news and updates about The World of Statistics by following us on Twitter at @astatworld. Also, when you use Twitter to spread the word about The World of Statistics, be sure to use the hashtag “#TWOS”. You also can follow developments in The World of Statistics [on our Facebook page](#). Become our friend today!