

**C·A·U·C·U·S**  
**FOR WOMEN**  
**IN STATISTICS**

**Newsletter**

**Volume 41, No 3: Fall, 2011**

<http://www.caucusforwomeninstatistics.com/>

**Letter from the President**

Dear Friends and Colleagues,

We had so much fun in Miami Beach in August at the 2011 Joint Statistical Meetings!



*continued on p 2*

**Contents of the Newsletter**

Message from the President .....	1
Posters and Publications .....	4
Newsbrief .....	7
Award Notice .....	8
Miscellaneous.....	9
Job Notices .....	11
New Member Form.....	26
Executive Committee Roster.....	27

**Future newsletter submission deadlines are**

Winter 2011

Dec 12, 2011

**Advertising Policy**

The Caucus welcomes two types of advertisements for the newsletter:  
 1) General commercial ads, for which the charges are \$100, full page; \$55, half page; \$30, quarter page, for which Malini Iyengar should be contacted, and  
 2) Job ads, for which Sorina Efrim should be contacted. See Job Notices for deadlines and charges. These ads (and only these) will be posted on our website,

<http://www.caucusforwomeninstatistics.com/>

The highlight was our celebration of the Caucus' 40<sup>th</sup> Anniversary at the business meeting and social. Well over 50 people attended - the room was bursting at the seams! The tapas and anniversary cake were yummy. You can find photographs of the celebration on our web site - including **Elizabeth Margosches** cutting the cake - at

<http://www.caucusforwomeninstatistics.com/photos/40th-anniversary-of-the-caucus-celebration>.

**Tena Katsaounis** gave her talk on Women in Statistics and Social Networking, and I presented a slide show of the history of the Caucus that included pictures of past presidents. It was so great to see the 40<sup>th</sup> Anniversary ribbons on ASA President **Nancy Geller** and others. Our four breakfast roundtables led by **Cynthia Clark**, **Susmita Datta**, **Sally Morton** and **Dalene Stangl** on What Statistics Women Want were so well attended that we had to continuously ask that more chairs be brought to the tables.

We also had a great time in Dublin in August at the 58<sup>th</sup> World Statistics Congress of the International Statistical Institute! **Mary Thompson**, **Jane Gentleman**, **Carol Blumberg**, **Irena Ograjensek**, **Monica Jackson** and her mom, and I got together for afternoon tea at the famed Westbury Hotel in Dublin. **Cynthia Clark** and the ISI Committee on Women in Statistics organized a great networking session – I was privileged to lead a roundtable with amazing academic statisticians from the United Kingdom, Latvia, France, Italy, Croatia, Canada, the United States, and Poland. Some of us even got to pay homage to William Gosset by visiting his commemorative plaque at the Guinness Brewery. The ISI is opening up a new category of membership to anyone who wants to join. I highly recommend the ISI experience to you. The next World Statistics Congress will be in 2013 in Hong Kong. I hope to see you there.

We had a productive face-to-face executive committee meeting at the JSM. Several questions were raised there, and I would like to solicit your opinions on some of these questions.

1. Should the Caucus sponsor a formal mentoring program for its members?
  - a. Are members interested in having mentors?
  - b. Would members be willing to mentor?

If you have thoughts to share on the question of mentoring, please send them to **Cathy Furlong** [cathy.furlong@cox.net](mailto:cathy.furlong@cox.net).

2. What should be the future of the Cox scholarship fund?
  - a. Do we want to award scholarships into perpetuity, or can we see a reasonable sunset in 15 years time?
  - b. Would an award of two scholarships be sufficient in difficult economic times?
  - c. Do we want to commit next year to raising the \$42,000 needed to put the Cox scholarship fund into a self-supporting situation?

If you have thoughts to share on the question of fundraising, please send them to **Laura Bond** at [lbond@boisestate.edu](mailto:lbond@boisestate.edu).

3. Should the Caucus affiliate with the American Statistical Association?
  - a. Which of the historic reasons that led to the Caucus being an independent organization are still valid?
  - b. Do current benefits of affiliation with the ASA outweigh these reasons?

If you have thoughts to share on the question of ASA affiliation, please send them to me at [amanda.golbeck@umontana.edu](mailto:amanda.golbeck@umontana.edu).

Also, I have a list serve set up for the Caucus. If we want to activate it, all we have to do is add your e-mail addresses. You would be able to opt out by not accepting our invitation to join the group. Please send me your thoughts about having a list serve for the Caucus.

I would like to thank **Sally Morton** for pinch hitting at the JSM and giving an excellent talk again this year to the new JSM attendees. I would also like to thank **Amgen** for providing an educational donation to support our activities at the JSM. And I would like to thank each and every one of you for being members of the Caucus for Women in Statistics!

This will be my last *Message from the President*. I would like to take this opportunity to thank you for letting me serve the Caucus as its 37<sup>th</sup> president. It has been a real privilege (-:

**Amanda Golbeck**

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## Posters. Publications

### “I Want to be a Statistician Just Like my Mom” Poster

By Jane Gentleman



The poster shown on the next page was recently produced by the National Center for Health Statistics (NCHS) and is available in two pdf files (for printing and for Web use) on the NCHS website at <http://www.cdc.gov/nchs/about/poster.htm>. **Jane Gentleman**, who is Director of the Division of Health Interview Statistics at NCHS, worked with NCHS' Graphic Services unit to develop the poster, which is being widely distributed and redistributed; anyone who wishes to may print the poster and distribute it further.

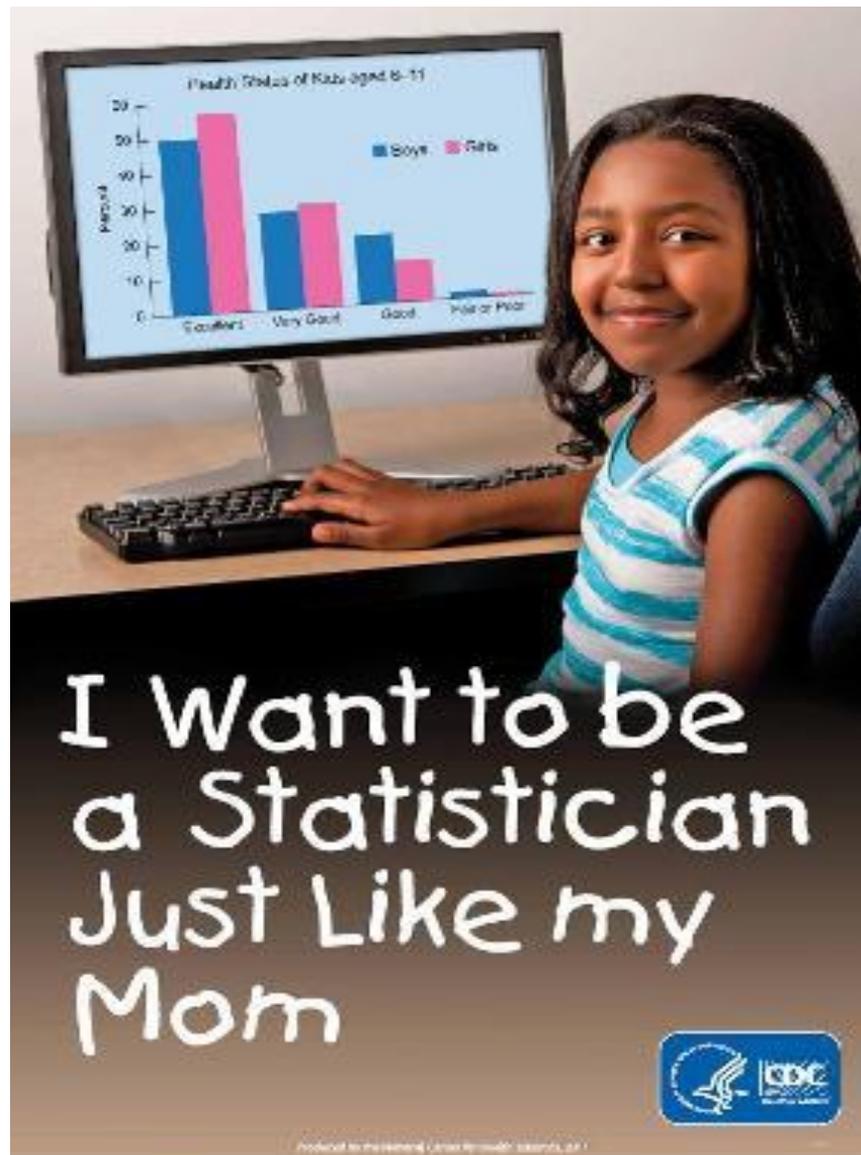
The girl pictured in the poster is **Hermela Mengesha**, the little sister of an NCHS employee. The hypothetical scene pictured in the poster is of a girl who, for a school project, asked her fellow elementary school students whether their health was Excellent, Very Good, Good, Fair, or Poor (a standard question on many health surveys). The girl then made a graph of the observed data and is shown proudly displaying it on a computer screen. The idea was to show a young girl displaying early aptitude to become a statistician. (It's a secret that the percent distributions shown on the girl's computer screen are based on real data from the 2010 National Health Interview Survey; **Jane Gentleman**, whose division conducts that survey, wanted the girl's results to be realistic.)

Here are some examples of how the poster is being used:

- President-Elect **Jae Chang Lee** of the International Statistical Institute (ISI) said that the ISI would use the poster to promote statistics.
- Executive Director **Ron Wasserstein** of the American Statistical Association made 250 copies of the poster to distribute at the recent 2011 Joint Statistical Meetings. He said that he would likely also distribute more copies at the Joint Math Meetings and to the National Council of Teachers of Mathematics.
- The American Statistical Association is putting the poster in the ad centerfold of an upcoming issue of *Amstat News*, which is the ASA's monthly Membership Magazine. ASA produces more than 18,000 copies per issue and posts the magazine online. The magazine goes to all ASA members, who reside in the U.S., Canada, and most other foreign countries.
- The Washington Statistical Society (WSS, the DC chapter of ASA) put the poster in its July/August newsletter, which was sent to the ~900 chapter members and is displayed online.
- The Caucus for Women in Statistics emailed the poster to all of its members.
- The Statistical Society of Canada is sending the poster to its member email list.
- Large copies of the poster were exhibited and small copies distributed at the recent 2011 Joint Statistical Meetings at the exhibit booths of CDC, NCHS, and the Caucus for

Women in Statistics. Posters will also exhibited and distributed at the recent ISI meeting in Dublin, Ireland.

- CDC's Statistical Advisory Group (SAG) sent the poster to its ListServ subscribers.
- A Professor in the University of Michigan's Dept. of Statistics is displaying the poster in his department.
- An NCHS staff member is going to show the poster to the girl scout troop she leads and to students and teachers at her daughter's school.
- A Survey Methodologist at the Census Bureau said that the poster is going to go in his son's bedroom; the mother of the son is a statistician!



## STEM Report

By Paula K Roberson

*Commerce Issues Report on Women and STEM Workforce*. Last week, the Department of Commerce Economic and Statistics Administration (ESA) issued a report on women in the science, technology, engineering and math (STEM) workforce. The report, *Women in STEM: A Gender Gap to Innovation*, <http://app.aaasscience.org/e/er.aspx?s=1906&lid=6005&elq=39072c60f9dd4ee1a650632dc6cd9048> found that women continue to be "vastly underrepresented" and hold less than 25 percent of STEM jobs. On a brighter note, women in STEM jobs "earned 33 percent more than comparable women in non-STEM jobs."

### *A Career in Statistics: Beyond the Numbers*

By Gerry Hahn and Necip Doganaksoy

A valuable guide to a successful career as a statistician is now in print! It will be displayed by Wiley at the forthcoming Joint Statistical Meetings, together with our 2008 book on *The Role of Statistics in Business and Industry*.

*A Career in Statistics: Beyond the Numbers* prepares readers for careers in statistics by emphasizing essential concepts and practices beyond the technical tools provided in standard courses and texts. This insider's guide from internationally recognized applied statisticians helps readers decide whether a career in statistics is right for them, provides hands-on guidance on how to prepare for such a career, and shows how to succeed on the job.

The book provides non-technical guidance for a successful career. The authors' extensive industrial experience is supplemented by insights from contributing authors from government and academia, Carol Joyce Blumberg, Leonard M. Gaines, Lynne B. Hare, William Q. Meeker, and Josef Schmee. Following an introductory chapter that provides an overview of the field, the authors discuss the various dimensions of a career in applied statistics in three succinct parts:

- **The Work of a Statistician** describes the day-to-day activities of applied statisticians in business and industry, official government, and various other application areas, highlighting the work environment and major on-the-job challenges
- **Preparing for a Successful Career in Statistics** describes the personal traits that characterize successful statisticians, the education that they need to acquire, and approaches for securing the right job
- **Building a Successful Career as a Statistician** offers practical guidance for addressing key challenges that statisticians face on the job, such as project initiation and execution, effective communication, publicizing successes, ethical considerations, and gathering good data; alternative career paths are also described

The book concludes with an in-depth examination of careers for statisticians in academia as well as tips to help them stay on top of their field throughout their careers. Each chapter includes thought-provoking discussion questions and a Major Takeaways section that outlines key concepts. Real-world examples illustrate key points, and an FTP site provides additional information on selected topics.

*A Career in Statistics* is an invaluable guide for individuals who are considering or have decided on a career in statistics as well as for statisticians already on the job who want to accelerate their path to success. It also serves as a suitable book for courses on statistical consulting, statistical practice, and statistics in the workplace at the undergraduate and graduate levels.

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## Newsbrief

### Election for 2012 Executive Committee

By Jennifer Parker



Our recent election for the 2012 Executive Committee members closed at the end of August. Although the candidates ran unopposed, many of our members made the effort to concur with the ballot. Of the Caucus membership, 21 members voted and concurred with the ballot.

Congratulations to **Susmita Datta** who will be our President-Elect next year. Dr. Datta is a professor and university scholar in the Department of Bioinformatics and Biostatistics at University of Louisville. She is currently a Representative-at-Large for the CWIS; as President-Elect, she leaves an extra opening for a Representative-at-Large for 2012. Fortunately for the CWIS, **Jenna Fulton** and **Renee Gindi** will join and **Amanda Kaye McCracken** will continue on the Executive Committee as Representatives-at-Large. Renee Gindi is a post-doctoral fellow at the National Center for Health Statistics. Jenna Fulton and Amanda Kaye McCracken are both graduate students, Amanda at the University of Alabama and Jenna in the Joint Program in Survey Methodology at the University of Maryland. Finally, **Jessica Kohlschmidt** returns for another term as Secretary; she works at the Comprehensive Cancer Center, James Cancer Hospital and Solove Research Institute at the Ohio State University. Thank you to all of our candidates for their willingness to serve on the Executive Committee and contribute to the coordination of CWIS activities.

Participating in CWIS elections by voting or concurring with the ballot is a relatively simple way to stay involved; considering a term on the Executive Committee by running for election is a great opportunity to do a little more. If you'd consider being nominated for the election next

year, please contact **Amanda Golbeck**, who will be chairing the Nominating Committee next year, **Lynn Palmer**, or me.

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## Review of Caucus By-Laws

By **Elizabeth Margosches**



At the Executive Board meeting at the 2011 Joint Statistical Meetings in Miami, a committee was formed to review and, possibly, streamline the Constitution and By-Laws of the Caucus for Women in Statistics. Chaired by **Elizabeth Margosches**, this committee will conduct its review by email over the next two years. Other members of the committee are **Anna Nevius**, **Cathy Furlong**, and **Lynn Palmer**. The hope is to make recommendations to the membership for changes that can improve the organization's service to its members and its interactions with other professional societies.

Suggestions for changes are welcome and may be sent for consideration to

[ehmargosches@melman.com](mailto:ehmargosches@melman.com).

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## Congratulations



**Nancy Geller** has been elected to membership in the International Statistical Institute.



**Amanda Golbeck** has been awarded the honorary rank of Fellow of the American Statistical Association.

**Amanda Golbeck** has also been elected to membership in the International Statistical Institute.

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## SHARE YOUR GOOD NEWS!

Caucus Members: Have you recently published an article or book? Received a promotion? Taken a new job? If so, we would like to share your good news with the Caucus membership. Please send a short email message with your news to: **Jill Montaquila** (Caucus Newsbriefs Features Editor), [montaqj1@westat.com](mailto:montaqj1@westat.com)

### Status of Caucus Membership

by **Cathy Furlong**

The Caucus is always looking for new members – please remind your colleagues about the Caucus! It is important for women to continue to share their experiences with each other and for all of us to encourage women to develop their skills and careers in statistics and mathematics.

Do you have ideas of how to increase the Caucus membership? If so, please email all suggestions to me. I would like to thank people for some suggestions given so far:

1. Create Caucus for Women in Statistics subsets at universities or colleges. For members at the university or college level, are you interested in doing this?
2. Encourage younger members to conduct informational interviews of experienced members, especially when dealing with balancing work and family or finding mentors at work. I am willing to pair members for the interviews.

Experienced members, please let me know if you are open to being interviewed by younger members.

New members, please let me know if you are interested in conducting an informational interview.



At the present time, we have ninety-nine registered members, some of whom have not yet renewed their membership for 2011. Please remember to renew your membership! **Anna Nevuis**, Treasurer, has successfully organized the PayPal account; therefore members are encouraged to pay their dues on-line. When renewing on line, please include your email address and any additional notes. I will email new members for additional database information.

Membership Coordinator  
[cathy.furlong@cox.net](mailto:cathy.furlong@cox.net)

## **Electronic Distribution of Newsletter**

**by Tena Katsaounis** on behalf of the Executive Committee



Due to cost and time considerations the Caucus Executive Committee is considering electronic-only distribution of the Caucus Newsletter, via e-mail. Please make sure you provide your email address with the rest of your information.

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## **Request for Newsletter Contributions**

**by Malini Iyengar**

We need your input to keep the newsletter informative and interesting to readers and also to build a loyal fan base. We are a diverse community with members in academia, pharmaceutical industry, financial services, software development and various governmental organizations. Each of these has its own system / programs to recognize outstanding performances in the field of statistics. Quite often many such opportunities are not well advertized centrally. If you happen to come across announcements for competitions, scholarships etc., can you please send me a write-up for the newsletter? This way we can inform members of opportunities to benefit from, and continue to serve them.

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## **Job Notices**

*Job notices must be submitted to **Sorina Eftim** by Dec 5, 2011 for inclusion in the Winter 2012 Newsletter. The fee for publishing a job notice of  $\leq 12$  lines is \$50, a  $\frac{1}{2}$  page is \$100. Longer ads are \$125 per page. Jobs will be posted on the Web site periodically as received and published in the next edition. Credit card payments can be made on the Caucus website, or a check payable to The Caucus for Women in Statistics will be accepted. Phone or e-mail inquiries are welcomed. All positions advertised in this newsletter are EO/AA.*

### **GEISINGER HEALTH SYSTEM Health Care Operations and Quality Auditor**

Conducts the examinations and evaluations of the adequacy and effectiveness of the Women's Health service line's system of internal control and the quality of performance in carrying out assigned responsibilities. Performs operational audits, program audits, medical record/billing audits and/or special projects throughout the Geisinger Health System. Partners with interdisciplinary teams in the establishment and implementation of a quality improvement process that improves patient access and processes of care, reduces variation and achieves maximum quality.

Reports directly to the Women's Health Service Line senior leadership and works in close cooperation with other members of the Finance and Revenue Cycle departments.

#### **DUTIES AND RESPONSIBILITIES:**

\*Reviews operations, systems and/or programs to ascertain whether results are consistent with established objectives and goals and whether the operations or programs are being carried out as planned. Reviews and appraises the economy and efficiency with which resources are employed.

\*Reviews the reliability and integrity of operating information provided by operations, systems and/or programs and the means used to identify, measure, classify and report such information. Conceptualizes and recommends additional data and reports to demonstrate improvements in operational outcomes.

\* Audits documentation of services provided to ensure accuracy and compliance with contractual, state and federal requirements as well as to identify missed revenue opportunities for possible capture. Reviews coding issues related to diagnosis coding, CPT-4, coding and modifier coding with Professional Compliance staff members.

\* Reviews the systems established to assure compliance with those policies, plans, procedures, laws, and regulations which could have a significant impact on operations and reports in determining whether the organization is in compliance.

\* Obtains, analyzes, and appraises evidentiary data and other available information as

a basis for an informed, objective opinion on the adequacy of effectiveness of the system and the efficiency of performance of the assigned areas being audited.

\* Prepares work papers showing the results of the assigned areas being audited in accordance with those practices followed within the general operation of the Women's Health Service Line. Exercises skills and knowledge of organizational and department supported computer software in the preparation of work papers.

\* Makes oral and written presentations to management and to the Women's Health Service Line senior leadership.

\* Prepares formal written audit reports and follow-up memorandums expressing opinions on the adequacy and effectiveness of the system and the efficiency with which activities are carried out for the assigned areas being audited.

\* Appraises the adequacy of corrective action taken by management to improve the findings noted in an audit engagement through performing assigned follow-up audit engagements.

\* Coordinates, facilitates, and leads, as necessary, the development and implementation of improvement programs and activities in the assigned areas/departments to achieve quality, safe, and efficient healthcare across the continuum of care.

\* Manages complex improvement initiatives that span multiple system areas over an extended period of time.

\* Assists interdisciplinary teams in the establishment and implementation of office improvement standards that promote access and efficiencies in the practice sites.

\*Partners with physicians and administrative leadership to prepare poster and paper abstracts for conferences and publications. Seeks out venues for publication to share WHSL work supported by data. Develops drafts of papers and slide decks for the team.

Bachelor's degree in Statistics, Mathematics, Finance, or a Health Care related field required. Minimum of 2-3 years experience in healthcare operations, audits or analytics required. A Master's degree may substitute the years of experience requirement. Advanced knowledge of MS Excel is strongly preferred.

Apply Here:

[https://geisinger.shcm.lawson.com/prodhcm/CandidateSelfService/lm?\\_ln=JobSearchResults&\\_r=0&bto=JobPosting&dataarea=prodhcm&name=PostingDisplay&service=form&webappname=CandidateSelfService&HROrganization=1&JobRequisition=2121&JobPosting=2](https://geisinger.shcm.lawson.com/prodhcm/CandidateSelfService/lm?_ln=JobSearchResults&_r=0&bto=JobPosting&dataarea=prodhcm&name=PostingDisplay&service=form&webappname=CandidateSelfService&HROrganization=1&JobRequisition=2121&JobPosting=2)

OR

Email Us Here: [jflowry@geisinger.edu](mailto:jflowry@geisinger.edu)

**DEPARTMENT OF STATISTICS & ACTUARIAL SCIENCE**  
**UNIVERSITY OF WATERLOO**  
Open Position in Actuarial Science

The Department of Statistics and Actuarial Science at the University of Waterloo invites applications for a tenure-track or tenured position in Actuarial Science. This may be at the rank of Assistant, Associate, or, in very special cases, Full Professor. Candidates must have a PhD in an area of the actuarial, statistical or mathematical sciences, and research interests in actuarial science or related disciplines. Professional actuarial qualifications and experience, although not strictly necessary, would be a distinct asset. Departmental strengths in the actuarial science group at the University of Waterloo cover a wide range of topics including risk and ruin theory, risk management in insurance and finance, solvency management, and financial modeling and was among the first cohort of universities to be recognized as a Center of Actuarial Excellence by the Society of Actuaries.

The Department of Statistics and Actuarial Science is one of the top academic units for the statistical and actuarial sciences in the world and is home to more than 40 research active full-time faculty. It offers a vibrant research environment for a wide range of areas including mathematical statistics, analysis of longitudinal and event history data, statistical learning, finance, risk management, ruin theory, survey methods, industrial statistics, and interdisciplinary collaborative work. The Department benefits from close relationships with several research groups on campus including the Waterloo Research Institute in Insurance, Securities, and Quantitative Finance (WATRISQ). The Department is also home to more than 150 graduate students in programs including Actuarial Science, Quantitative Finance, Statistics and Biostatistics. In particular it has the distinct feature of offering both Masters and PhD degrees in Actuarial Science including the recent Master of Actuarial Science (MActSc), which delivers an elite, fast-tracked education in actuarial science and practice.

Applicants must have potential or proven ability to develop an internationally recognized research program, excellent communication skills, as well as a strong commitment to teaching at the graduate and undergraduate levels. The salary offered will be commensurate with qualifications and experience. Applications will be accepted until the position is filled, with all applications received by December 1, 2011 being fully considered. However, completed applications will be reviewed on an ongoing basis before this deadline.

Please submit a detailed cover letter, a *curriculum vitae*, and arrange for at least three letters of reference to be sent directly to

Professor Paul Marriot, Chair  
Department of Statistics and Actuarial Science  
University of Waterloo  
200 University Avenue West  
Waterloo ON N2L 3G1, CANADA  
[pmarriot@uwaterloo.ca](mailto:pmarriot@uwaterloo.ca)

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

**DEPARTMENT OF STATISTICS & ACTUARIAL SCIENCE**  
**UNIVERSITY OF WATERLOO**  
Open Positions in Biostatistics

The Department of Statistics and Actuarial Science at the University of Waterloo invites applications for one or more tenure-track or tenured positions in Biostatistics. These may be at the ranks of Assistant, Associate, or, in very special cases, Full Professor. Applicants should have a PhD in Biostatistics or a related area in the statistical or mathematical sciences, must have potential or proven ability to develop an internationally recognized research program in Biostatistics, have excellent communication skills, and a strong commitment to teaching at the graduate and undergraduate levels.

Interested candidates from any area of Biostatistics are strongly encouraged to apply. Current areas of specialization of the department in Biostatistics include the analysis of longitudinal data, event history analysis, methods for incomplete data, measurement error, hierarchical models for complex data, and the design of clinical trials. The Department enjoys strong and productive links with the new School of Public Health and Health Systems, the Propel Centre for Population Health Impact, the School of Optometry, and the Department of Psychology at the University of Waterloo. Other partnerships in research involve the Ontario Institute for Cancer Research and many centers for health science research across Canada and internationally.

The University of Waterloo is one of Canada's leading universities with more than 30,000 full and part-time students in undergraduate and graduate programs. For 19 consecutive years the University of Waterloo has been named Canada's most innovative university and recently topped the reputational categories of most innovative and best overall. The Department is one of the top academic units for the statistical and actuarial sciences in the world and is home to more than 40 research active full-time faculty. It offers a vibrant research environment and is also home to over 150 graduate students in programs including Biostatistics, Statistics, Actuarial Science, and Quantitative Finance.

Applications will be accepted until the positions are filled, with all applications received by December 1, 2011 being fully considered. However, completed applications will be reviewed on an ongoing basis before this deadline. The salary offered will be commensurate with qualifications and experience. Please submit a detailed cover letter, a *curriculum vitae*, and arrange for at least three letters of reference to be sent directly to

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Department of Statistics and Actuarial Science  
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[pmarriot@uwaterloo.ca](mailto:pmarriot@uwaterloo.ca)

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

**DEPARTMENT OF STATISTICS & ACTUARIAL SCIENCE**  
**UNIVERSITY OF WATERLOO**  
Open Positions in Statistics

The Department of Statistics and Actuarial Science at the University of Waterloo invites applications for one or more tenure-track or tenured positions in Statistics. These may be at the ranks of Assistant, Associate, or, in very special cases, Full Professor. Applicants should have a PhD in an area of the statistical, mathematical or actuarial sciences, must have potential or proven ability to develop an internationally recognized research program in Statistics, have excellent communication skills, and a strong commitment to teaching at the graduate and undergraduate levels.

The Department of Statistics and Actuarial Science is one of the top academic units for the statistical and actuarial sciences in the world and is home to more than 40 research active full-time faculty. It offers a vibrant research environment for a wide range of areas including mathematical statistics, applied probability, longitudinal data analysis, event history analysis, statistical learning, computational statistics, finance and risk management, survey methods, industrial statistics, and interdisciplinary collaborative work. The Department benefits from close relationships with many research groups on campus including the Survey Research Centre, the Business and Industrial Statistics Research Group, the Computational Statistics Research Group, the Waterloo Research Institute in Insurance, Securities, and Quantitative Finance, the School of Public Health and Health Systems, the Propel Centre for Population Health Impact, the Interdisciplinary Centre on Climate Change and Centre for Theoretical Neuroscience. The Department is also home to over 150 graduate students in programs including Statistics, Biostatistics, Actuarial Science, and Quantitative Finance.

Applications will be accepted until positions are filled, with all applications received by December 1, 2011 being fully considered. However, completed applications will be reviewed on an ongoing basis before this deadline. The salary offered will be commensurate with qualifications and experience. Please submit a detailed cover letter, a *curriculum vitae*, and arrange for at least three letters of reference to be sent directly to

Professor Paul Marriott, Chair  
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All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

**DEPARTMENT OF STATISTICS & ACTUARIAL SCIENCE**  
**UNIVERSITY OF WATERLOO**  
**CHAIR OF STATISTICS AND ACTUARIAL SCIENCE**

The Department of Statistics and Actuarial Science at the University of Waterloo invites applications for the position of **Department Chair**. This will come with a **tenured Associate or Full Professorship**, depending on qualifications. The successful candidate will be internationally recognized as a distinguished researcher in the statistical or actuarial sciences and have demonstrated leadership abilities to guide the department during an exciting time of expansion.

The University of Waterloo is located at the heart of Canada's Technology Triangle and has become one of Canada's leading comprehensive universities with more than 30,000 full- and part-time students in undergraduate and graduate programs. For 19 years in a row the University of Waterloo has been named Canada's most innovative university in the Maclean's annual university rankings and recently topped the reputational categories of most innovative, most likely to produce the leaders of tomorrow, and best overall. In the next decade, the university is committed to building a better future for Canada and the world by championing innovation and collaboration to create solutions relevant to the needs of today and tomorrow.

The Department of Statistics and Actuarial Science is among the top academic units for statistical and actuarial science in the world and is home to more than 40 research active full-time faculty. It offers a vibrant research environment for a wide range of areas including foundations of statistics, analysis of longitudinal and life history data, computational inference, finance, risk management, ruin theory, survey methods, industrial statistics, and interdisciplinary collaborative work. The Department benefits from close relationships with several research groups on campus including WATRISQ, the Business and Industrial Research Group, the Survey Research Centre, the PROPEL Centre for Population Health Impact and many others. The Department is also home to nearly 150 graduate students in programs including Actuarial Science, Biostatistics, Quantitative Finance, Statistics, and Statistics-Computing.

Candidates interested in this exciting leadership position should have a PhD in Statistics or Actuarial Science, a strong track record in research, demonstrated success in graduate student supervision, and evidence of effective leadership. The salary offered will be commensurate with qualifications and experience. The closing date for applications is October 31, 2011, but suitable candidates will be invited for interviews while the position is advertised and an appointment may be made prior to the closing date.

Candidates interested in this exciting opportunity should submit a curriculum vitae to:

Ian Goulden, Dean  
Faculty of Mathematics  
University of Waterloo  
Waterloo ON N2L 3G1, CANADA  
dean@math.uwaterloo.ca

All qualified candidates are encouraged to apply. Canadians and permanent residents will be given priority. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

## **IOWA STATE UNIVERSITY**

### **Tenured/Tenure Track Faculty Position at Iowa State University**

Applications are invited for a faculty position as either a tenure track assistant professor or as a tenured associate professor. The successful candidate will be expected to maintain a vigorous research program in any area of statistics, advise graduate students, and provide innovative and excellent instruction. Standard teaching responsibilities will include a mix of undergraduate and graduate courses.

The Department of Statistics offers a stimulating environment with a diverse range of activities. The program currently has about 150 graduate students, 100 undergraduate majors, and 36 faculty. Further information about the department can be found at <http://www.stat.iastate.edu>. Questions about this position may be sent to [dgbonett@iastate.edu](mailto:dgbonett@iastate.edu) ..

Applications should be submitted electronically at <https://www.iastatejobs.com>; look for vacancy number 110881. Completed applications should include a letter of application, curriculum vita, teaching and research statements, up to five significant publications, evidence of teaching excellence, and contact information for three references. Applicants for assistant professor should electronically submit course transcripts as a PDF file. Review of applications will begin on 12/01/2011 and will continue until the position is filled. EOE/AA.

**UNIVERSITY OF CALIFORNIA DAVIS**  
**JOB ANNOUNCEMENT**  
**Associate or Full Professor in Residence**  
**University of California, Davis School of Medicine**  
**Department of Public Health Sciences, Division of Biostatistics**

The University of California, Davis, School of Medicine, Department of Public Health Sciences is seeking to fill an endowed Deans Professorship in Biostatistics at the Associate or Full Professor in Residence level.

The In Residence title at the University of California is an Academic Senate title assigned to academically qualified individuals who engage in teaching, research or other creative work, and University and public service to the same extent and at the same level of performance as those holding corresponding titles in the Professor series in the same department. Professor in Residence titles are intended to be used for individuals supported by non-State funds.

As an Associate/Full Professor in Residence, the appointee chosen for this position will be responsible for collaborative research, independent research, teaching biostatistics, and mentoring students. Applicants must possess a doctoral degree in biostatistics or statistics and have experience in teaching biostatistics to biostatistics or statistics and non-specialist audiences. An established record of collaborative and independent methodological research is required, including recent peer-reviewed publications, demonstrated experience with the design, analysis and reporting of epidemiologic and medical studies and experience in obtaining grant funding. Experience with cancer research, imaging, clinical trials, translational or health services research is highly desirable. Previous experience in Center or Program Project cores is highly desirable. Demonstrated experience or potential for assuming administrative and leadership roles for biostatistics in a School of Medicine or School of Public Health setting are highly desirable. Preference will be given to candidates with strong written and verbal communication abilities. Candidates must have the ability to work cooperatively and collegially within a diverse environment.

This position may, at times, require the incumbent to work with or be in areas where hazardous materials and/or infectious diseases are present. Specific hazards of the position may include but are not limited to ergonomic stressors involved in computer work.

For more than 100 years, UC Davis has engaged in teaching, research and public service that matter to California and transform the world. Located close to the state capital, the Davis campus is the third largest in the University of California system and ranks among the nation's top 20 universities in research funding.

The Department of Public Health Sciences (<http://phs.ucdavis.edu/>) is a major research and teaching Department in the School of Medicine, with 31 full-time faculty members. In addition to epidemiologic research within the Department, Department faculty have active collaboration with many faculty in other departments and centers of the School of Medicine, including the Department of Internal Medicine, the Clinical and Translational Research Center, the Cancer Center, the M.I.N.D. Institute, and the Alzheimer's Disease Center. Collaborations also exist with other faculty on the UC Davis campus, including in the School of Veterinary Medicine, the

College of Agriculture and Environmental Sciences, the Center for Health and the Environment, and elsewhere. Areas of active research in the Department include occupational/environmental health, cancer, reproductive and women's health, aging, nutrition, infectious and pulmonary disease and injuries/accidents. Department faculty are principal investigators and collaborators on many large cohort studies, in addition to working on a wide range of other epidemiologic studies and clinical trials. We offer a Master's in Public Health program on the UC Davis campus. Department faculty also participate in doctoral education through the Graduate Groups in Epidemiology, Biostatistics and Clinical Research and the Graduate Program in Statistics.

Applicants should send a cover letter referencing position #PU-03R-11, a CV and the names of five references to Laurel A. Beckett, Ph.D., ([labeckett@phs.ucdavis.edu](mailto:labeckett@phs.ucdavis.edu)) Professor and Chief, Division of Biostatistics, MS1C Building, University of California, Davis, CA 95616. To receive full consideration, applications must be received by **November 1, 2011**. However, applications will be accepted and the position will remain open until filled, through **June 30, 2013**.

*The University of California is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to the achievement of diversity among its faculty, staff and students.*

## **CARNEGIE MELLON UNIVERSITY, DEPARTMENT OF STATISTICS**

Applications are invited for possible tenure-track, lecturer, and visiting positions. Carnegie Mellon offers a collegial faculty environment, emphasizing a combination of disciplinary and cross-disciplinary research and teaching. All areas of statistics are welcome, and joint appointments with other units in the Pittsburgh area are possible. We especially encourage women and minorities to apply. Details at <http://www.stat.cmu.edu> (email: [hire@stat.cmu.edu](mailto:hire@stat.cmu.edu)).

Application screening begins immediately and continues until positions closed. Send CV, research papers, relevant transcripts and three letters of recommendation to:

Chair, Faculty Search Committee,  
Department of Statistics, Carnegie Mellon University,  
Pittsburgh, PA 15213, USA.

AA/EOE.

## **BOWDOIN COLLEGE STATISTICS POSITION**

The Department of Mathematics at Bowdoin College invites applications for a tenure-track position in statistics at the rank of assistant professor starting Fall 2012. Preference for applicants whose professional interests lie in statistics and its applications; statistical consultation experience in the natural and/or social sciences desirable. We seek someone who appreciates the rich balance of theoretical mathematics, applied mathematics, and statistics that our department presently enjoys, and who has the potential to ultimately assume a leadership role in statistics at the College. Bowdoin values dedication to teaching excellence in a liberal arts environment as well as a promise of successful scholarly engagement and extensive professional activity such as statistical consultation. Regular teaching load is two courses per semester. The successful candidate will teach primarily introductory and major-level courses in statistics and probability. Ph.D. in statistics preferred, advanced ABDs (and doctorates in interdisciplinary statistics programs) considered.

Bowdoin College accepts only electronic submissions. Please visit <http://www.MathJobs.org> to submit a cover letter, AMS application cover sheet, resume, statement of research and/or professional activity plans, statement on teaching philosophy, and contact information for three references who will provide letters of recommendation.

Review of applications will begin **November 14, 2011**, and will continue until the position is filled.

A highly selective liberal arts college on the Maine coast with a diverse student body made up of 29% students of color, 3% international students and approximately 15% first generation college students, Bowdoin College is committed to equality and diversity and is an equal opportunity employer. We encourage inquiries from candidates who will enrich and contribute to the cultural, socio-economic, and ethnic diversity of our college. Bowdoin College does not discriminate on the basis of age, race, creed, color, religion, marital status, gender, sexual orientation, veteran status, national origin, or disability status in employment, or in our education programs.

Bowdoin College offers strong support for faculty research and teaching. We recognize that recruiting and retaining faculty may involve considerations of spouses and domestic partners. To that end, where possible, the College will attempt to accommodate and respond creatively to the needs of spouses and partners of members of the faculty. For further information about the college and the department, see our website at [www.bowdoin.edu](http://www.bowdoin.edu).

**UNIVERSITY OF MISSOURI-COLUMBIA  
TENURE TRACK POSITION  
DEPARTMENT OF STATISTICS**

The Department of Statistics seeks to fill at least one tenure-track Assistant Professor Position starting Fall 2012. A doctorate in Statistics by August 15, 2012, excellence in teaching and research, and excellent communication skills are required. In addition, the candidate should have an interest in collaborative and methodological research related to the University's College of Agriculture, Food and Natural Resources (CAFNR). The CAFNR has a broad range of units specializing in Animal Science, Biochemistry, Food Science and Engineering, Plant Science, Natural Resources and Social Sciences (see <http://cafnr.missouri.edu/> for more detail). Possible areas of overlap include (but are not limited to): Bayesian methods, bioinformatics, categorical models, environmental statistics, experimental design, linear models, longitudinal models, multivariate methods, and spatial statistics.

This position is structured so that 20% of the appointment is teaching (1 course per semester), 30% collaborative research with colleagues in CAFNR, 20% independent research, 20% traditional consulting, and 10% service. Furthermore, the tenure and administrative home for this faculty position resides solely in the Department of Statistics.

Please apply online at <http://hrs.missouri.edu/find-a-job/academic> with a cover letter, current CV and transcripts required; and have three letters of reference sent directly to

Chair of Search Committee  
University of Missouri  
Department of Statistics  
146 Middlebush Hall  
Columbia, MO 65211 or [umcstatfacsearch@missouri.edu](mailto:umcstatfacsearch@missouri.edu)

The Department of Statistics has 16 faculty members with research interests in adaptive designs, Bayesian statistics, biostatistics, bioinformatics, ecology, environmental statistics, model selection, nonparametric statistics, order restricted inference, sequential design, shape analysis, spatial statistics, spatio-temporal processes, and time series. Faculty research includes theoretical and methodological statistics with diverse applications such as AIDS research, air pollution, biostatistics, climatology, disease mapping, ecology, economics, engineering, forestry, genetics, meteorology, oceanography, psychology, and wildlife biology. Current research is supported by about one million dollars in grants from EPA, NASA, NIH, NSF, and the Missouri Department of Conservation. Furthermore, members of the department serve as statistical consultants on grants in the health sciences for over three million dollars. The department offers bachelors, masters, and PhD degrees and has over 40 graduate students. For more detail see <http://www.stat.missouri.edu/>.

Columbia is a city of more than 90,000 people located in central Missouri. Kansas City and St. Louis are each about 120 miles from Columbia, less than a two hour drive on Interstate 70. Local cultural activities are numerous with a thriving live music scene, and numerous plays and concert series offered by the city, University, and Stephens and Columbia colleges. The city is connected

to the state-wide hiking-biking trail network (the "Katy Trail") and the Ozark recreational area is a two to four hour drive from Columbia and provides camping, hiking, water sports and float trips. For more information about the city of Columbia, please visit <http://www.ci.columbia.mo.us/>.

The University of Missouri is an Equal Opportunity/Affirmative Action/ADA Employer

## TEXAS A&M UNIVERSITY

### **Training Program at Texas A&M University for New Investigators in Bioinformatics and Biostatistics**

The Department of Statistics at Texas A&M University anticipates openings for its two-year training program in Bioinformatics and Biostatistics with an emphasis on the Biology of Nutrition and Cancer (<http://stat.tamu.edu/train>). The position involves extensive research interaction with a senior biological mentor who has extensive grant support and an active program using the most recent high throughput technologies. Program participants will receive training via a structured format in biology, genetics, transcriptome sequencing technology, genomic signal processing, and the biological mechanisms of cancer that may be activated by nutrition-related factors. No teaching duties are required. Each participant will be mentored by a multidisciplinary team of experienced researchers from Statistics, Electrical Engineering, Nutrition and Computer Science and will be provided with excellent computing support. Applicants should have a Ph.D. in a quantitatively oriented discipline, such as statistics, electrical engineering and applied mathematics. Funding is restricted to U.S. citizens and permanent residents. Stipends are competitive with initial tenure-track positions in statistics. Interested applicants should send a vita and three letters of reference (for new or recent Ph.D.'s) by February 15, 2012 to:

Raymond J. Carroll  
Department of Statistics  
Texas A&M University  
College Station TX 77843-3143  
carroll@stat.tamu.edu  
AA/EOE

**UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
DEPARTMENT OF STATISTICS AND OPERATIONS RESEARCH  
ASSISTANT PROFESSORSHIP IN STATISTICS**

Applications are invited for a tenure-track position at the Assistant Professor level, beginning July 2012. We seek candidates doing innovative work in modern areas of statistical theory, including, but not limited to, high-dimensional inference and sparsity, statistical analysis of networks, and machine learning. Applicants should have exhibited excellence, or excellent potential, in research, teaching, and external funding. The applicant should have (or be near completion of) a Ph.D. in Statistics or a closely related field, and should have strong theoretical training.

Statistical theory is a long-standing and central focus of the Department's research and graduate program. The Departmental and University research environments offer numerous opportunities for collaborative work. Current Statistics faculty have active collaborations with Departmental colleagues working in probability, optimization, and stochastic modeling, as well as with faculty from the departments of Mathematics, Computer Science, Biology, Biostatistics, and the School of Medicine. In addition, there are many collaborative opportunities outside the University, in the larger Research Triangle area, including Duke, NCSU, SAMSI, and the EPA.

We will begin reviewing applications after November 1, 2011, and will continue accepting applications until the position is filled. The application package should include a cover letter, up-to-date curriculum vitae, research and teaching statements, representative papers, and a graduate transcript. Applicants should also arrange for four letters of recommendation. At least one of the letters should include an evaluation of the applicant's teaching ability. Application materials and letters of recommendation must be submitted in electronic form only; click on <http://jobs.unc.edu/2501769> to apply for this position.

The University of North Carolina at Chapel Hill is an AA/EOE/ADA employer, and encourages applications from women and members of ethnic minorities.

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**Statistics Search Committee  
Department of Statistics and Operations Research  
University of North Carolina at Chapel Hill  
Application Website: <http://jobs.unc.edu/2501769>  
Department Homepage: <http://stat-or.unc.edu/>**



**Department of Statistics**  
**Faculty Position in Neuroscience/Developmental Science**

The Department of Statistics (see [www.stat.vt.edu](http://www.stat.vt.edu)) anticipates a tenure-track position in Neuroscience/Developmental Science with an emphasis on computational statistics, data mining, data visualization, pattern recognition, machine learning, image analysis, or related areas. The starting date is August, 2012. Appointments at the assistant professor level are preferred, but exceptional senior candidates will be considered. Applicants must have earned a doctorate in statistics, biostatistics, or closely related field at the time of appointment.

Questions can be directed to Professor Geoff Vining, Search Chair, Department of Statistics, Virginia Tech, Blacksburg, VA 24061-0439, Tel: (540) 231-3337, Email: [vining@vt.edu](mailto:vining@vt.edu). Applications must be submitted online at <http://www.jobs.vt.edu> (posting # 0110999). The application package should include a cover letter, curriculum vitae, a research plan and a statement of teaching philosophy. Applicants should arrange for three letters of recommendation to be submitted directly to the Search Chair. Review of applications will begin on December 1, 2011 and continue until the position is filled.

Virginia Tech is an EO/AA university, and offers a wide range of networking and development opportunities to women and minorities in science and engineering. Individuals with disabilities desiring accommodations in the application process should notify Ms. Betty Higginbotham ([higgvt@vt.edu](mailto:higgvt@vt.edu)), Statistics Department, (540) 231-5657, or call TTY 1-800-828-1120.

**UNIVERSITY OF GEORGIA**  
**Department of Statistics**

The Department of Statistics at the University of Georgia invites applications for a tenure-track position at the rank of assistant professor in the area of mathematical statistics, starting August 2012. Applicants must have a Ph.D. degree in Statistics, and scholarly credentials must reflect a strong commitment to research in statistical theory and teaching. Successful applicants are expected to develop a research program that will be competitive for external funding. To apply for the position, candidates should visit <http://recruitment.franklin.uga.edu/statistics> and provide all of the requested information. At this site, candidates should also upload a single PDF file consisting of an application letter, a curriculum vita, a research summary statement that highlights an interest in and contributions to statistical theory, a statement on teaching philosophy, and a copy of the graduate school transcript. Upon receipt of the application, the three references supplied by the applicant will be asked to submit letters of recommendation at the same website. Applications received by **January 2, 2012**, will be assured consideration. For more information about the department and the university, please go to <http://www.stat.uga.edu>

The Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students, and to sustaining a work and learning environment that is inclusive. Women, minorities and people with disabilities are encouraged to apply. The University is an EEO/AA institution.



## 2011 EXECUTIVE COMMITTEE

### **PRESIDENT (2011)**

**Amanda Golbeck**  
School of Public and Community Health Sciences  
University of Montana  
32 Campus Drive  
Missoula, MT 59812  
W: (406) 243-4446  
FAX: (406) 243-4209  
[amanda.golbeck@umontana.edu](mailto:amanda.golbeck@umontana.edu)

### **PRESIDENT ELECT (2012)**

**J. Lynn Palmer**  
[lpalmer@mdanderson.org](mailto:lpalmer@mdanderson.org)

### **PAST PRESIDENT (2010)**

**Jennifer Parker**  
National Center for Health Statistics  
3311 Toledo Road, #6107  
Hyattsville, Maryland 20782  
(301) 458-4419  
W: (301) 458-4419  
[jdarker@cdc.gov](mailto:jdarker@cdc.gov)  
[jdarker@aol.com](mailto:jdarker@aol.com)

### **PAST PRESIDENT (2008-9)**

**Marcia Ciol**  
Department of Rehab Medicine  
University of Washington  
1959 Northeast Pacific Street  
BB919 Health Sciences Bldg.  
Campus Box 356490  
Seattle, WA 98195-6490  
W: (206) 221-4668  
F: (206) 685 3244  
[marciac@u.washington.edu](mailto:marciac@u.washington.edu)

### **ISI Representative (2011)**

**Marcia Ciol**

### **CHAIR, CANADIAN SECTION**

**Leilei Zeng**  
[lzeng@sfu.ca](mailto:lzeng@sfu.ca)

### **TREASURER**

**Anna Nevius**  
7732 Rydal Terrace  
Rockville, MD 20855-2057  
W: (301) 827-0170  
FAX: (301) 827-6661  
H: (301) 258-0565  
[anna.nevius@fda.hhs.gov](mailto:anna.nevius@fda.hhs.gov)

### **SECRETARY**

**Jessica Kohlschmidt**  
[kohlschmidt.1@osu.edu](mailto:kohlschmidt.1@osu.edu)

### **REPRESENTATIVES-AT-LARGE (2011-12)**

**Sorina Eftim**  
[sorina.eftim@gmail.com](mailto:sorina.eftim@gmail.com)  
**Susmita Datta**  
[susmita.datta@louisville.edu](mailto:susmita.datta@louisville.edu)

### **REPRESENTATIVES-AT-LARGE (2010-11)**

**Amanda McCracken**  
Office of Institutional Research and Assessment  
The University of Alabama  
Box 870166  
Tuscaloosa, AL 35487-0166  
(205) 348-7200  
[mcml016@crimson.ua.edu](mailto:mcml016@crimson.ua.edu)  
**Tessa Merna**  
[tessa.merna@gmail.com](mailto:tessa.merna@gmail.com)

### **MEMBERSHIP**

**Cathy Furlong**  
9412 Cello Ct.  
Vienna, VA  
H: (703) 242-7468  
[cathy.furlong@cox.net](mailto:cathy.furlong@cox.net)

### **FEATURES EDITOR**

**Jill Montaquila**  
Westat Inc. – Statistics Group  
Room 486, 1650 Research Blvd.  
Rockville, MD 20850  
W: (301) 517-4046  
[montaqj1@westat.com](mailto:montaqj1@westat.com)

### **JOBS EDITOR**

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[sorina.eftim@gmail.com](mailto:sorina.eftim@gmail.com)

### **NEWSLETTER EDITOR**

**Malini Iyengar**  
W: (610) 787-3879  
[Malini.2.Iyengar@gsk.com](mailto:Malini.2.Iyengar@gsk.com)

### **FUNDRAISING COORDINATOR**

**Laura Bond**  
Office of Research Administration  
1910 University Drive  
Boise, ID 83725-1515  
W: (208) 426-1438  
FAX: (208) 426-5956  
H: (208) 344-7257  
[lbond@boisestate.edu](mailto:lbond@boisestate.edu)

### **WEBMASTER**

**Jenna Green**  
[jennargreen@gmail.com](mailto:jennargreen@gmail.com)