



## WSS NEWS

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# WASHINGTON STATISTICAL SOCIETY

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## 2013 WSS PRESIDENT'S INVITED SEMINAR

### From Multiple Modes for Surveys to Multiple Sources for Estimates

- Date/Time:** **May 22, 2012, 1:00 - 3:00 p.m.**  
Light refreshments will be served following the talk  
\* Video conferencing will **not** be available.
- Chair:** Keith Rust, WSS President
- Speaker:** Constance F. Citro, Director  
Committee on National Statistics  
National Academy of Sciences/National Research Council
- Location:** Bureau of Labor Statistics Conference Center, Room 7  
To be placed on the seminar attendance list at the Bureau of Labor Statistics e-mail your name, affiliation, and seminar name to [wss\\_seminar@bls.gov](mailto:wss_seminar@bls.gov) (underscore after 'wss') **by noon at least 2 days in advance of the seminar**, or call 202-691-7524 and leave a message. Bring a photo ID to the seminar.  
BLS is located at 2 Massachusetts Avenue, NE. Use the Red Line to Union Station.
- Abstract:** Users of federal statistics want estimates that are “wider, deeper, quicker, better, cheaper” (channeling Tim Holt, former head of the UK Office for National Statistics). Each of these adjectives poses challenges and opportunities for those who produce statistics. I am going to focus on “better.” Since World War II, we have relied on the probability sample survey as the best we could do—and that best being very good, indeed—for estimates on everything from household income to self-reported health status, unemployment, crime victimization, and many other topics. Faced with secularly declining unit and item response rates, we have responded in many ways, including the use of multiple survey modes, more sophisticated imputation methods, etc. In the business sector, we also long ago moved away from relying solely on surveys to produce needed estimates, but, to date, we have not done that for household surveys. I argue that we can and must move from a paradigm of producing the best estimates possible from a survey to that of producing the best possible estimates from multiple data sources, including administrative records and, in the future, perhaps other kinds of data. I use household income as my main example. From my 45 years working in and around the federal statistical system (28 years with

CNSTAT), mostly as a user, I also offer some observations about ways in which a user perspective can productively become a more integral part of the DNA of the federal statistical system.

## SEMINARS

**Title:** **Sample Size and Power Determination in Joint Models for Longitudinal and Survival Data**

**Date/Time:** **April 12, 2013, 10-11 a.m., with Q&A time until 11:30 a.m.**

**Speaker:** Joseph Ibrahim, Ph.D., Alumni Distinguished Professor and Director of Graduate Studies, University of North Carolina Gillings School of Global Public Health

**Location:** Warwick Evans Conference Room, Building D, Georgetown University Medical Campus  
4000 Reservoir Road NW, Washington, DC 20057

Detailed directions for public transportation, car, and parking can be found here: <http://dbbb.georgetown.edu/about/Visitors/>

**Abstract:**

Owing to the rapid development of biomarkers in clinical trials, joint modeling of longitudinal and survival data has gained its popularity in the recent years because it reduces bias and provides improvements of efficiency in the assessment of treatment effects and their prognostic factors. Although much effort has been put into inferential methods in joint modeling, such as estimation and hypothesis testing, design aspects have not been formally considered. Statistical design, such as sample size and power calculations, is a crucial first step in clinical trials. In this talk, we derive a closed-form sample size formula for estimating the effect of the longitudinal process in joint modeling, and extend Schoenfeld's sample size formula to the joint modeling setting for estimating the overall treatment effect. The sample size formula we develop is quite general, allowing for  $p$ -degree polynomial trajectories. The robustness of our model is demonstrated in simulation studies with linear and quadratic trajectories. We discuss the impact of the within-subject variability on power and data collection strategies, such as spacing and frequency of repeated measurements, in order to maximize the power. When the within-subject variability is large, different data collection strategies can influence the power of the study in a significant way. Optimal frequency of repeated measurements also depends on the nature of the trajectory with higher polynomial trajectories and larger measurement error requiring more frequent measurements.

# CALL FOR PAPERS



**Abstract Submission Deadline:  
April 8, 2013**

The Federal Committee on Statistical Methodology (FCSM) is planning a research conference to be held at the **Washington Convention Center, Washington, DC** on **November 4-6, 2013**. The conference provides a forum for experts from around the world to discuss and exchange current research and methodological topics relevant to statistical programs.

Papers submitted for the FCSM Research Conference must be original and not previously published or disseminated.

**Possible topics include but are not limited to:**

## Survey Design and Data collection

- Questionnaire design issues
- Improving coverage and response rates
- Instrument design and pretesting
- Survey integration and cross-survey planning
- Treatment of missing data / imputation methods
- Uses of innovative methods for data collection, processing, and dissemination
- Adaptive/responsive design
- Advances in frame development
- Innovative methods in sample design
- Multi-mode and web data collection
- Survey redesign
- Field monitoring and management

## Estimation and Analysis

- Bayesian statistical methods
- Variance estimation
- Small area estimation
- Exposure analysis and modeling
- Forecasting, time series, and seasonal adjustment
- Methods of statistical / econometric modeling
- Meta-analysis
- Model-based survey estimation adjustment
- New edit and imputation methodologies
- Application of microdata techniques to economic data
- Collection and analysis of survey paradata
- Analysis of complex surveys

## Evaluation

- Census and survey evaluation methodologies
- Evaluating mode effects
- Identifying and reducing sources of survey error
- Measuring process and data quality
- Nonsampling error: estimation and evaluation
- Innovative approaches to program evaluation
- Nonresponse and measurement error research

## Cross-Cutting Topics

- Big data and official statistics
- Impact of the global economy on national statistics
- Special issues related to establishment surveys
- Confidentiality, privacy, and disclosure issues
- Data mining, warehousing, and metadata
- Design and analysis of longitudinal studies
- Measurement issues and bridging changes
- Use of data for policymaking
- Statistical uses and quality of administrative records
- Data sharing and linking
- Usability testing
- Quality standards, best practices, and guidelines
- Geospatial statistics
- Economic measurement concepts and techniques
- Development of economic statistical indicators
- Statistical literacy and communication of results
- Statistical issues in national security, healthcare reform, housing, financial well-being, immigration, and the environment

**Submission Instructions:** To submit an abstract for a paper, technical demonstration, or organized session for consideration, use the template and instructions found at [www.fcsm.gov/events/](http://www.fcsm.gov/events/) or [www.copafs.org](http://www.copafs.org) for your submission.

Submit the abstract via email to [fcsm.conf@gmail.com](mailto:fcsm.conf@gmail.com) as soon as possible but no later than **April 8, 2013**.

Please note that authors/ presenters are responsible for their travel expenses, but the registration fee is waived for one presenter per paper.

**Tentative Schedule of Activities**

| <b>Activity</b>                            | <b>Date</b>        |
|--|--------------------|
| Abstracts due                              | April 8, 2013      |
| Papers selected/Authors notified           | May 2013           |
| Advance program ready                      | August 2013        |
| Conference registration open               | August 2013        |
| Draft paper due to Organizers/Chairs       | September 2013     |
| Final program ready                        | October 2013       |
| Conference dates                           | November 4-6, 2013 |
| Final paper due (FCSM on-line proceedings) | January 31, 2014   |

To obtain conference information or to be included on the mailing list, contact:

**Anna Holaus, Conference Coordinator**

**Email: [fesm.conf@gmail.com](mailto:fesm.conf@gmail.com)**

**Phone: 301-763-2308**

**Fax: 301-763-3682**

For questions about abstracts or the program, contact:

**Pam McGovern, Program Chair**

**Email: [pam.mcGovern@nass.usda.gov](mailto:pam.mcGovern@nass.usda.gov)**

**Phone: 202-720-8853**

## SHORT COURSES AND WORKSHOPS

### **AAPOR Webinar: Defining Hard-to-Survey Populations and Measuring the Difficulty**

**Wednesday, April 10, 2013, 1:00 - 2:30 p.m. EDT,  
(Noon - 1:30 p.m. CDT, 10:00 - 11:30 a.m. PDT)**

**Instructor: Roger Tourangeau**

This webinar provides a conceptual framework for studying “hard-to-survey” populations. This term has been applied to a wide range of populations, who exhibit a variety of different characteristics that make them difficult to survey. For example, there are many papers on methods for sampling rare populations—low prevalence populations that must be selected from a general population sampling frame. Other populations are difficult to survey because they are widely scattered, inaccessible or highly mobile. This course explores the different dimensions that make populations hard to survey and also examines metrics that have been used to quantify the different sources of difficulty. This webinar will:

- Provide a deeper understanding of the dimensions that make populations hard to survey;
- Cover the various metrics used to assess the degree of difficulty encountered at each major survey operation; and
- Explore the underlying factors that make some populations harder to survey than others.

**Roger Tourangeau, PhD**, is a Vice President and Associate Director at Westat, one of the largest survey firms in the United States. Before joining Westat, he was Research Professor at the University of Michigan’s Survey Research Center and the Director of the Joint Program in Survey Methodology at the University of Maryland. He has been a survey methodologist for nearly 30 years. He is an author on more than 70 research articles. He is the lead editor of the volume (Hard-to-Survey Populations), to be published by Cambridge University Press, coming out of the recent International Conference on Methods for Surveying and Enumerating Hard-to-Reach Populations

*Join AAPOR and enjoy the significant member discount on all webinars!*

**A\$A-\$RM\$ members:** *To receive AAPOR member pricing on webinars, call Erika Moy at (847) 205-2651 ext.290.*

|  | <b>Member</b> | <b>Nonmember</b> |
|--|---------------|------------------|
| Live Webinar                             | \$59          | \$79             |
| Live Webinar + Recorded Version          | \$79          | \$99             |
| Recorded Version Only                    | \$59          | \$79             |
| *Student - Live Webinar or Recording     | \$15          | \$20             |
| *Student - Live Webinar + Recording      | \$20          | \$25             |
| <i>*proof of student status required</i> |               |                  |

**PLEASE NOTE:**

- You must use a telephone line to participate in the webinar.
- Purchase the recording at the reduced rate of \$20 along with your live webinar. Following the event the recorded version can be purchased at the full cost.

Your registration fee includes: one telephone and Internet connection, handouts, a course evaluation and one certificate of completion.

Register at: [http://www.aapor.org/source/education/webinar\\_details.cfm?mtg=WEBO413](http://www.aapor.org/source/education/webinar_details.cfm?mtg=WEBO413)  
 Questions? Contact AAPOR at [info@aapor.org](mailto:info@aapor.org)

**Short Course Sponsored by the NSF-Census Bureau Research Network  
Statistics for Spatio-Temporal Data**

**April 17, 2013/ 8:30 a.m. - 4:00 p.m.**

The course will follow the recently published book by Noel Cressie and Chris Wikle, *Statistics for Spatial Data* (Hoboken NJ: John Wiley and Sons, 2011). Professor Cressie will present state-of-the-art methods for spatio-temporal processes, bridging classic techniques with modern hierarchical statistical modeling concepts. From understanding environmental processes and climate trends to developing new technologies for mapping public-health data and the spread of invasive species, there is a high demand for statistical analyses of data that take spatial, temporal, and spatio-temporal information into account. The course will consider a systematic approach to key quantitative techniques for the analysis of such data, particularly hierarchical (empirical and Bayesian) statistical modeling with an emphasis on dynamical spatio-temporal models. Illustrative real-world examples will be presented throughout the course. The course is composed of four subsections:

- Overview of Statistical Modeling of Complex Data and Processes (key concepts of hierarchical modeling and overview of requisite background in spatial statistics and time series).
- Descriptive Analysis of Spatio-Temporal Data (exploratory techniques for spatio-temporal data including visualization and empirical dimension reduction).
- Fundamentals of Spatio-Temporal Modeling (spatio-temporal covariance functions, spatio-temporal kriging, relationship between process and covariance, and random-effects perspectives).
- Spatio-Temporal Dynamical Models (hierarchical perspective of data, process, and parameter models for spatio-temporal dynamical systems; parameterization approaches for dealing with the curse of dimensionality; computation).

**Instructor:** Dr. Noel Cressie, Distinguished Professor at the National Institute for Applied Statistics Research Australia (University of Wollongong, Australia) is the instructor. He has published extensively in the areas of statistical modeling, analysis of spatial and spatio-temporal data, and empirical-Bayesian and Bayesian methods.

**Location:** Census Bureau Headquarters, Suitland MD, Conference Room 4 (Suitland Metro stop). All visitors should enter through Gate 7 (Metro entrance) that morning. Breakfast and lunch is available at the Census Bureau cafeteria.

**Note:** Attendees should have at least a Master's level background in probability and statistical inference, and they should have a good understanding of matrix algebra.

**Registration:** Contact Sandra Heineck <Sandra.L.Heineck@census.gov> to reserve a place (up to 50 students can be accommodated). Any non-citizens desiring to attend should also contact Eugene Vandrovec directly at 301.763.6418 at least a week in advance.

**DC-AAPOR presents  
Cognitive Interviewing Workshop: An Expanded View of What the Method Can Offer**

**April 26, 2013/8:00 a.m. - 4:00 p.m.**

This workshop is targeted primarily to cognitive interview practitioners. Using case studies as concrete examples, facilitators will highlight the multidimensional utility of cognitive interviewing, including the descriptive and reparative uses of the method and how the method can address different research questions in single language, multilingual, and mixed methods environments. A seated lunch and planned discussion time after each case study will encourage conversation. Breakfast and a seated lunch will be provided.

Facilitators:

- Michelle Smirnova, Using Cognitive Interviewing to Detect Privacy and Confidentiality Concerns (Case Study 1, Descriptive)
- Stephanie Willson, The Use of Cognitive Interviewing to Study and Improve Data Quality in Administrative Records (Case Study 2, Reparative)
- Gordon Willis, Using Cognitive Interviewing to Understand Cross-Cultural Functioning of Survey Questions (Case Study 3, Descriptive)
- Patti Goerman, Using Cognitive Interviews to Examine and Align Meaning across Different Language Versions of Survey Instruments (Case Study 4, Reparative)
- Jennifer Hunter Childs, Studying Topics for Which There is No "Truth": Measuring Race (Case Study 5, Descriptive)
- Morgan Earp, A Multi-Method Analysis of Measurement Error Using a Measure of the Public's Trust of Official Statistics in the United States (Case Study 6, Reparative)
- Jennifer Edgar, Overview and Discussion

| Session | Time  | Title/Topic   |
|---------|-------|---|
|         | 8:00  | Registration and Continental Breakfast                                    |
|         | 8:30  | Overview & Welcome  |
| 1       | 8:45  | Cognitive Interviewing - Single Language/Culture - Case Studies 1 & 2     |
|         | 9:45  | Discussion  |
|         | 10:15 | Morning Break   |
| 2       | 10:30 | Cognitive Interviewing - Multilingual/Cross-cultural - Case Studies 3 & 4 |
|         | 11:30 | Discussion  |
|         | 12:00 | Seated Lunch  |
| 3       | 1:00  | Cognitive Interviewing - Mixed Methods - Case Studies 5 & 6               |
|         | 2:00  | Discussion  |
|         | 2:30  | Afternoon Break   |
| 4       | 2:45  | Afternoon Group Discussion  |
|         | 3:45  | Closing Remarks   |

**Register here:**

<http://www.eventbrite.com/event/5267067942>

**Location:**

Bureau of Labor Statistics Conference Center,  
Rooms 7 & 8

**Cost on or before April 18:**

\$50 for DC-AAPOR members; \$75 for non-members

**Cost after April 18:**

\$75 for DC-AAPOR members; \$100 for non-members

**Workshop/Conference Sponsored by the National Security Agency  
7th Annual Probability and Statistics Day**

**April 26-27, 2013**

**Registration Deadline: April 12, 2013**

The Department of Mathematics and Statistics at UMBC will hold the **7th Annual Probability and Statistics Day at the University of Maryland, Baltimore County (UMBC)**.

This event is comprised of a half-day workshop on Friday afternoon and a full day conference on Saturday.

Probability and Statistics Day 2013 is open to statisticians from all local universities, government agencies, and private industries.

**Friday Workshop: Multiple Imputation Theory and Applications**

**Presenter:** Jerry Reiter, Duke University

**Saturday Keynote Speakers:**

- Dennis Cook, University of Minnesota -- Envelope Models and Methods
- Nat Schenker, NCHS/ORM -- Multiple Uses of (Mostly Multiple) Imputation at the National Center for Health Statistics
- Sharon Lohr, Westat --Recent Developments in Multiple Frame Surveys

**Costs:** Friday workshop - Free (but registration is required)  
Saturday conference --\$30

For more information, visit <http://www.umbc.edu/circ/hosting/ProbStatDay2013/index.php> .

Contact Bimal Sinha at [sinha@umbc.edu](mailto:sinha@umbc.edu) (phone 443-528-3012) or Navneet ([navy@umbc.edu](mailto:navy@umbc.edu)).

## **Short Courses Sponsored by JPSM**

Course and registration information for all JPSM-sponsored short courses listed below are available at [www.jpsm.org/shortcourses](http://www.jpsm.org/shortcourses).

### **Picture at an Exhibition: The Visual Display of Quantitative Phenomena April 8, 2013**

L'Enfant Plaza Hotel, Washington, DC  
Presented by Howard Wainer

#### **Payment and Registration Due by March 25, 2013**

[https://projects.isr.umich.edu/jpsm/html\\_content.cfm?CourseID=040813](https://projects.isr.umich.edu/jpsm/html_content.cfm?CourseID=040813)

Statistical Methods for Evaluating Survey Questions

### **April 22-23, 2013**

L'Enfant Plaza Hotel, Washington, DC  
Presented by Paul P. Biemer

#### **Payment and Registration Due by April 8, 2013**

[https://projects.isr.umich.edu/jpsm/html\\_content.cfm?CourseID=042213](https://projects.isr.umich.edu/jpsm/html_content.cfm?CourseID=042213)

***Primary Funding for JPSM is from the Interagency Council on Statistical Policy***

## **SPOTLIGHT ON WSS MEMBER**

### **Ismael Flores Cervantes**



My name is Ismael Flores Cervantes. I am a Senior Statistician at Westat. I have been with Westat for 20 years. I am originally from Mexico, and I came to the United States to attend Graduate School at the University of Texas at Austin. Although I completed my Bachelor's Degree in Engineering in Mexico, I knew it was not my calling. After a semester of English classes, I enrolled in the Master's Degree program in Statistics, with the goal of working on Statistical Process Control and Quality Control. This was a very popular field at that time.

While working as a research assistant for Dr. Lynne Stokes, she encouraged me to explore the field of Survey Sampling. Upon finishing my master's degree, I received an associateship from the American Statistical Association to work at the U.S. Department of Agriculture in Washington, D.C. The purpose of that program was to pair young statisticians with researchers in survey sampling at government agencies. It was the opportunity of a lifetime because I met distinguished sampling statisticians such as Dr. Brenda Cox and Dr. Phil Kott.

After my associateship, I began work at Westat where I met and worked with Mr. Joe Wakesberg; Dr. Graham Kalton; Dr. Richard Valliant; and Dr. Edward Bryant, one of Westat founders. Currently I have the good fortune of working with well-known statisticians such as Dr. Roger Tourangeau and Dr. Michael Brick. This field has also allowed me to develop professionally since I have participated in national and international conferences, been a member of a review panel, a referee of papers in well-known journals, taught seminars in weighting and estimation, and have published several articles in journals and proceedings. I have had the opportunity to interact with a variety of clients such as the UCLA Center for Health Policy Research, CDC, UNESCO, and the DoD Defense Manpower Data Center.

One of my interests is improving current methods to produce more timely estimates. Although these activities are not as visible as published articles indicate, they make sure that day-to-day activities at the office are completed. This field has also given me the opportunity to do research on topics that interest me such as alternative methods for the creation of weights, variance estimation, estimation, and imputation. I am glad I made the change to this field of survey sampling since, otherwise I do not think I would have had the opportunity to work with such great people. The best part is that this ride is not over yet.

## WHO'S NEXT TO BE SPOTLIGHTED?

### Washington Statistical Society's Spotlight on Members Program

The WSS Board of Directors has established a program to highlight members who have made or are making notable contributions to the work of their organization or their professional field of expertise. We know that WSS members are doing interesting work in the fields of statistics, survey methodology, and the social sciences. Through this program, we hope to spotlight the accomplishments of our fellow WSS members.

This is our first request for nominations, to be featured in an upcoming issue of WSS News. We are interested in featuring members at all levels of the employment spectrum including recent graduates, mid-career employees, and those seasoned veterans.

Please feel free to nominate more than one person or a team working together. You may also nominate yourself as well. The nominees must be members of the WSS and not currently affiliated with the Board.

Please provide us with the following information about your nominee or nominees.

1. *Your* name, email address, and telephone number
2. Name or names of nominee(s)
3. Organizational affiliation
4. Job title
5. Their contact information including email address and telephone number
6. A brief narrative describing the reasons for your nomination
7. A photo of the nominee, although not required, would be greatly appreciated

Please send this information to Mel Kollander, member of the WSS Board. His email address is [mellk@erols.com](mailto:mellk@erols.com). If you have any questions please contact Mel.

We look forward to hearing from you.

## **GET INVOLVED!**

### **Join the WSS Meetup**

The Washington Statistical Society has begun to use Meetup to help spread the word about WSS events. Members are invited to join at <http://meetup.com/WashStat/> for benefits such as:

- Notices and reminders of WSS events
- Ability to indicate whether you will attend
- Opportunity to offer suggestions and other feedback.

Users can specify their preferences for email and other features.

### **WSS Webmaster Needed**

The Washington Statistical Society asks your help locating a volunteer to take on the job of webmaster.

Webmaster has long been a key role at WSS. The WSS website (<http://washstat.org/>) is updated much more frequently than this newsletter—whenever news of interest to our members becomes available. The webmaster also developed, maintains, and runs the scripts that implement our annual and special elections.

The WSS webmaster should have knowledge of current web technologies and pay careful attention to detail. Ideally, he or she will be familiar with WordPress, Drupal, Joomla, or other content management systems so he or she can help decentralize website maintenance. The webmaster should also know php so she or he can implement, maintain, and improve the scripts we use for elections and other special purposes.

Please ask within your organizations and elsewhere for someone to take on these important tasks. We also are looking for someone to help maintain and coordinate our various calendar listings. Contact Phil Kalina, Communications Officer, for more information.

Thank you for helping WSS better serve our members.

## EMPLOYMENT OPPORTUNITIES

### CLINICAL TRIAL STATISTICIAN / BIOSTATISTICIAN

#### Ph.D. Level Position

**With an opportunity for substantial leadership responsibility in studies of international public health import.**

The Biostatistics Center of The George Washington University, founded in 1972, is a leader in the statistical coordination of clinical trials conducted by the National Institutes of Health. We manage NIH research funding totaling over \$65 million per year for major studies in cardiovascular disease, diabetes, maternal/fetal medicine, osteoporosis, urology, and the genetic basis for various diseases. The center has a staff of over 115 with 35 biostatisticians/epidemiologists, including 14 faculty. We are recruiting a Ph.D. level research faculty position to participate in these and future studies. Please visit our web site at [www.bsc.gwu.edu](http://www.bsc.gwu.edu) to learn more about our research.

**Associate to Full Research Professorial Position** with responsibilities at the Biostatistics Center and in the Department of Epidemiology and Biostatistics. Position involves: serving as Co-Investigator or Principal Investigator (Project Director) providing direction in the design, conduct, and analysis of multi-center collaborative studies; conducting methodological research to meet project needs; and engaging in academic commitments such as advising students and teaching. We are seeking an individual who wants to join a highly competent team of academic biostatisticians and epidemiologists, desires to contribute to the design and analysis of major medical studies, seeks substantive scientific and statistical responsibility, enjoys interacting with medical investigators, takes pride in participating in the publication of major papers in leading medical journals, desires to make an impact on issues important to the public health, and is confident communicating in both writing and orally. Our faculty also participate in graduate programs in statistics, biostatistics, and epidemiology that afford opportunities for educational activities at the graduate level. The research projects also provide an environment rich in methodological problems, with opportunities for collaboration with Center faculty and graduate students.

**Basic Qualifications:** Doctorate in Statistics or Biostatistics or equivalent doctoral educational attainment.

**Application Procedure:** To be considered please complete an online faculty application at <http://www.gwu.jobs/postings/14128> and upload a Curriculum Vitae, a letter to include a synopsis of your role in collaborative medical research that has led to medical scientific presentation or publication and a statement of career purpose indicating your career goals and how this position can help you achieve those goals. Please send three letters of reference to [researchjobs@bsc.gwu.edu](mailto:researchjobs@bsc.gwu.edu) or by U.S. Post to Manager of Human Resources, The Biostatistics

Center, The George Washington University, 6110 Executive Blvd., Suite 750, Rockville, MD 20852.

Only complete applications will be considered. Review of applications will begin on May 1, 2013 and is ongoing until the position is filled. Rank/position title and salary commensurate with experience and qualifications. Tuition benefits for employees (including Ph.D. in Statistics, Biostatistics and Epidemiology) and for spouse and dependent children.

Applications from women, people of color and people with disabilities are especially encouraged.

The George Washington University is an Equal Opportunity/Affirmative Action Employer.

**United States Postal Service  
Accelerated Career Entry Program: Math/Stat**

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- Option to participate in employer paid graduate level certificate program

The Accelerated Career Entry Program is a management training eighteen month leadership rotational program. The trainee will rotate through applicable business functions as he/she acquires increasingly more complex levels of knowledge, skills, and abilities. The program provides for noncompetitive promotion, with the possibility of merit pay increases, as the trainee makes measured progress through the ranks. The position is located in the Washington, D.C. metro area with a July 8, 2013 start date.

**EDUCATION REQUIREMENT**

To be eligible for this functional area, you must possess one of the following: A. Bachelor's degree in Operations Research, Mathematics, or Engineering, accredited by the Accreditation Board for Engineering and Technology (ABET) or a closely related field; B. Masters of Science in an engineering field from a college or university accredited by ABET.

Qualified applicants must be recent graduates who have earned a Bachelor's or Master's degree or Doctorate from an accredited college or university within 24 months of the vacancy announcement closing date. Applicants currently attending an accredited college or university and expect to complete the qualifying degree requirements prior to the start of the program are also eligible for consideration.

Qualified applicants must successfully pass a pre-employment drug screening to meet the U.S. Postal Service's requirement to be drug free. Applicants must also be a U.S. citizen or have permanent resident alien status.

**HOW TO APPLY**

Applicants should complete the following:

1. USPS Online Employment Application. Go to [www.usps.com](http://www.usps.com) and search for [MGMT INTERN \(MATH/STAT\) EAS - 17 WASHINGTON DC NC69759616](#)
2. Screening Questionnaire at <https://uspsmi2013.questionpro.com/> (copy link into your browser.)
3. Attach a copy of your Resume to your online application.
4. Attach an official or unofficial copy of your collegiate transcript to your online application.

**IMPORTANT INFORMATION**

Applications must be submitted by **11:59 p.m., Central Time, of the posting's closing date**. Applicants claiming veterans' preference must attach a copy of member copy 4 (only) of Certificate of Release or Discharge from Active Duty (DD Form 214) or other proof of eligibility if claiming 10-point veterans' preference. The United States Postal Service (USPS) is an equal opportunity employer. The USPS provides reasonable accommodation for any part of the application, interview, and/or selection process, please make your request to the examiner, selecting official or local manager of Human Resources. This request can also be made by someone on your behalf. Explain the nature of your limitations and the accommodation needed. The decision on granting reasonable accommodation will be on a case-by-case basis.

**SPECIAL NOTE**

Current career Postal Service employees are ineligible to apply to this posting.

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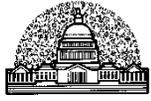
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