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**Fall 2014 Meeting Announcement**

**PhilaSUG Fall 2014 Meeting**

**Thursday, October 16th**

The Philadelphia Area SAS Users Group Fall Meeting will be on Thursday, October 16, 2014 at 1:00 pm, and will be hosted by the PRA Health Sciences at 721 Arbor Way (Suite 150) Blue Bell PA 19422. A map and driving instructions are available later in the newsletter.

Registration will begin at 12:15 pm and the meeting will commence at 1:00 pm. Dues for the year are $30. There are no other fees for attending PhilaSUG meetings. We will accept cash, but a check is preferred. If you are an employee/student of our host, fees for this meeting will be waived. A tip – to breeze through registration – bring in the completed registration form found in the back of this newsletter to the meeting, otherwise registration can still be simplified if you attach a business card to a check or cash, as there is less writing and it will be more legible. Please do not mail in your registration fee beforehand. Receipts will be available at registration time.

## RSVP



**Please RSVP no later than Thurs. Oct. 9th.** RSVPs in advance help to expedite security and food count, so if you will be attending, please complete the online PhilaSUG Meeting sign-up form found on our web site.

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|  | **PhilaSUG Fall Meeting** **PRA Health Sciences****721 Arbor Way, Suite 150, Blue Bell, PA 19422** |
| Lunch & break refreshments are provided courtesy of PRA |
| 12:15-1:00 | Registration, Posters and light lunch |
|  1:00-1:10 | Opening Remarks |
|  1:10-2:00  | Implementation of SAS Enterprise Guide in a Clinical Programming Environment – Karin LaPann and Hui Song |
|  2:00-2:45 | Logistic Regression and Data Cleansing Using SAS - Cheryl Kilroy |
|  2:45-3:05 | Break, Posters, and light refreshments |
|  3:05-4:35 | Combining Hadoop (a BIG DATA storage and compute platform) and SAS for fast analytics -Mark Lochbihler |
|  4:35-4:45 | Open Forum and Prize Raffle |
|  |
| Posters |
| Functional Logistic Regression in SAS Linlin FanRobust Approach to Create Define.xml v2.0 based SDTM/ADaM submission packageVineet Jain |

**Directions to Meeting Site**



# Directions to our Meeting location PRA Health Sciences, Suite 150, 721 Arbor Way, Blue Bell PA

### *By Car*

***From Philadelphia:***

Schuylkill Ave W

Take the Interstate 76 W ramp to Valley Forge

Keep left at the fork, follow signs for I-76 W/Valley/Forge and merge onto I-76 W Slight Take the leftInterstate 76 W onto ramp to W Germantown PikeValley Forge

0.2 mi



Undo

Slight Keep rightleft to merge onto at the fork, follow signs for I-476 SI-76 W/Valley/Forge toward and merge onto ChesterI-76 W

Slight Take the leftInterstate 76 W onto ramp to W Germantown PikeValley Forge

0.2 mi



Undo

Slight Keep rightleft to merge onto at the fork, follow signs for I-476 SI-76 W/Valley/Forge toward and merge onto ChesterI-76 W

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0.2 mi



Undo

Slight Keep rightleft to merge onto at the fork, follow signs for I-476 SI-76 W/Valley/Forge toward and merge onto ChesterI-76 W

Take exit 16339 for on the I-76left toward to merge onto Philadelphia/Valley ForgeU.S. 1 STake exit toward Take exit City Ave Take exit 339 on the left to merge onto U.S. 1 S toward City Ave

Merge onto I-76 W

Take exit 331B to merge onto I-476 N toward Plymouth Meeting

Take exit 20 for Germantown Pike W

Merge onto W Germantown Pike

Turn right onto Jolly Rd

Turn right onto E Township Line Rd

Take the 1st left onto Union Meeting Rd

Take the 1st right onto Arbor Way

### *From New Jersey and east:*

Take exit 333 from I-276 W

Turn left onto Plymouth Rd

Take the 1st right onto State Rte. 3053/W Germantown Pike

Turn right onto Pennsylvania 3012/Walton Rd

Turn left onto E Township Line Rd

Take the 3rd right onto Union Meeting Rd

Take the 1st right onto Arbor Way

### From Wilmington and South:

Take the exit onto 16I-95 N Take the exit onto 16I-95 NTake the I-95 N

Take exit 7 for Interstate 476 N toward Plymouth/Meeting

Merge onto I-476 N

Take exit 20 for Germantown Pike W

Merge onto State Rte. 3053/W Germantown Pike

Turn right onto Pennsylvania 3012/Walton Rd

Turn left onto E Township Line Rd

Take the 3rd right onto Union Meeting Rd

Take the 1st right onto Arbor Way

**From West**
I-276 E/Pennsylvania Turnpike
Take exit 333 toward Norristown
Follow signs for Plymouth Rd
Turn left onto Plymouth Rd
Take the 1st right onto State Rte. 3053/W Germantown Pike
Turn right onto Pennsylvania 3012/Walton Rd
Turn left onto E Township Line Rd
Take the 3rd right onto Union Meeting Rd
Take the 1st right onto Arbor Way

**Via Regional Rail: impractical
By Train/Trolley: Impractical**

**About our Host**

PRA Health Sciences delivers innovative drug development solutions that improve patients’ lives. Our people are passionate about clinical research, working tirelessly to provide quality results for clients. We offer exceptional experience across all phases, therapeutic areas and a broad spectrum of solutions, ranging from full-service clinical development to our pioneering Embedded model.

With 10,000+ employees covering 80+ countries, we bolster an impressive global presence with keen local insights. Our project teams harness their understanding of local regulations, standards of care and cultural customs to effectively align our approaches with each study’s unique goals.

At PRA, we love what do, because we are making a difference in the lives of patients and their family members worldwide. Over the years, we have contributed to the development of numerous drugs now available to countless patients. From our scientific and medical experts to therapeutically aligned project managers and monitors, we provide the commitment and expertise needed for today’s complex studies.

Thank You


The PhilaSUG Executive Committee wishes to thank PRA Health Sciences and especially Steve Powell, VP of Clinical Informatics, and Jeff Jackson, Senior Global Director of Programming, North America. In addition, we wish to thank Kajal Tahiliani and Terek Peterson of the PhilaSUG Executive Committee for their efforts in coordinating this meeting.

## Host Sites Wanted

We continuously seek host sites for future PhilaSUG meetings. There is not a lot of work involved, and it is a great way to put your company on the local SAS map. We need your help with this. If your company would like to host a meeting, within reasonable geographic proximity to Philadelphia, PhilaSUG would be grateful if you would contact Randy Noga at President@PhilaSUG.org.

E-mail Announcements

PhilaSUG-L is a low volume, announcement-only e-mail notification service provided free of charge to all members who wish to subscribe. In order to sign up for this service, you need only send a blank e-mail message to: PhilaSUG-L-subscribe@onelist.com. Note that you can subscribe as many times with as many different e-mail addresses as you wish to have the e-mail sent to; e.g., home and office.

**PhilaSUG Executive Committee**

Randy Noga, President

John Cohen, Membership

Diane Foose, Secretary

Robert Schechter, Web Master

Ellen Asam Jonas V. Bilenas Max Cherny
Barry Cohen Michael Davis Karin LaPann

Jessica Lam Terek Peterson Mona Sinha
Kajal Tahiliani Donna Usavage Russ Lavery
 Cheryl Kilroy David Horvath

## PhilaSUG Web Site

Our site on the World Wide Web always contains the latest information concerning upcoming meetings, SAS training and seminars, links to SAS related hot topics, and local SAS job opportunities.

Visit us regularly at: <http://www.PhilaSUG.org>

## Presenters Wanted

You are invited to be a presenter. The PhilaSUG Executive Committee requests presenta­tion abstracts from individuals who wish to participate actively in our meetings by presenting various SAS topics in the form of delivered papers or posters. This is a great way to share your knowledge with others, to brush up your presentation prior to delivery at SGF or some other major conference, and to gain confidence as a speaker. If this is of interest to you, please use the online abstract submission form found on our web site. Presentations can be from a few minutes to 50 minutes. Your abstract must be submitted online at our web site.

Paper Abstracts

**Implementation of SAS Enterprise Guide in a Clinical Programming Environment**

*Karin LaPann, PRA Health Sciences*

This talk will start by describing the SAS Grid environment we built for PRA, why we chose SAS EG and some of the nice upgrades that upgrading to SAS 9.4 will be providing for us. We will describe how to use the SAS EG without the Project feature but rather as a text editor that allows us to save and run programs in a traditional manner. We describe some of the enhancements that were provided to us to enable multiple sessions per person. We will finish with new features being leveraged by the SAS EG and its ability to read and produce elaborate Microsoft Excel Spreadsheets, read UTF-8 encoding, and options for other outputs such as PDF and maps.

*Karin LaPann is a Principal CDISC Standards Consultant at PRA Health Sciences. She is a standards professional and has extensive experience in statistical and clinical programming, from collection to transformation to SDTM, to ADaM and TFL's. She has also been involved in validation of systems for several projects ranging from SAS upgrades to in-house tools. She is published in the New England Journal of Medicine (1994), in JAMA (1995), Journal of General Internal Medicine (1997), American Journal of Epidemiology (1997) and Journal of Counseling Psychology (1998). She has also presented at numerous NESUG conferences. Karin has had experience as a Clinical SAS programmer at several Pharmaceutical companies and CROs for 14 years. Karin is an active member of the CDISC ADaM team.*

*Hui Song, Ph.D., has been a clinical programmer with PRA Health Sciences for more than three years. Before that, he was an assistant professor of computer science in Frostburg State University. He has more than ten years of programming experience and holds the advanced SAS programmer certificate. He loves SAS and envisions to impact and change people's lives through SAS in clinical trial statistical analysis.*

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**Logistic Regression & Data Cleansing using SAS**

*Cheryl Kilroy*

In today’s world, technology, including software, rapidly advances to better meet global needs. While companies respond to evolution and demand by producing new and improved software, etc., some customers prefer to continue using what still works for them. Meanwhile, technology companies, anxious to increase their return on investment, encourage their customers to migrate from older version to newer version. XZY, a global software company located in the United States, is no different and often XYZ finds that no matter how much time and money is spent to migrate customers from one version of software to a newer version of software, some customers refuse. XYZ would like to spend less time and effort encouraging companies resistant to migrating and more time and effort on targeting companies likely or very likely to migrate to avoid missed opportunities and ultimately increase return on efforts. To enable XYZ to identify a customer likely to migrate versus one not likely to migrate, data was collected and cleansed, a predictive model was built and the data was run through the model to calculate a likelihood score, a probability score to predict the likelihood a customer would migrate – all using SAS. This will be presented as a non-disclosed case study.

*Cheryl Kilroy, the founder of Stanexus, a statistical analysis expert group serving both academia and small business,      has a wealth of well rounded experiences in academia for 15 + years, the financial industry for 10 years, and the pharmaceutical industry.  She has held positions as an information systems engineer, SAS clinical programmer, biostatistician, adjunct mathematics instructor, and analyst.  Cheryl holds a BS in Marketing and an MA in Teaching of Mathematics.  More recently she acquired an MS in Applied Statistics from Villanova University and continues ongoing learning.  Cheryl is a member of PhilaSUG and the American Statistical Association and volunteers with Statistics Without Borders (SWB).*

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**Combining Hadoop (a BIG DATA storage and compute platform) and SAS for fast analytics** *Mark Lochbihler
Hortonworks*

This session will focus on SAS integration with Hadoop.  We will discuss the capabilities found today in SAS Access to Hadoop to help accelerate the learning curve for SAS programmers getting starting on their Big Data journey.  We will also discuss SAS High Performance Integration efforts, including SAS Visual Analytics, Visual Statistics, and In Memory Statistics with Hadoop.

*Mark started his career in 1989 at SAS Institutes's Cary, NC Campus. For five years, he was involved in SAS Technical Support and then Product Management, helping Fortune 500 companies take advantage of SAS's unique database interface capabilities and advancing product roadmaps.*

*In 1995, Mark joined Sybase and worked to obtain a SQL Server System 11 certification. Mark held various Senior Development Management positions at major Financial and Insurance companies in the US and obtained his Six Sigma Black Belt in the process. For the past eight years, Mark rejoined SAS within the Financial Services Field Business Unit as a Senior Technical Architect for SAS High Performance Computing (Grid, InDB, In-Memory). In February of 2014, Mark followed his passion again and joined startup Hortonworks to help partners integration solutions with Hadoop. Mark has a BS in Computer Science from North Carolina State University.*

*Hortonworks was founded in 2011 by 24 engineers from the original Yahoo! Hadoop development and operations team, Hortonworks has amassed more Hadoop experience under one roof than any other organization.  Our team members are active participants and leaders in Hadoop development; designing, building and testing the core of the Hadoop platform. We have years of experience in Hadoop operations and are best suited to support your mission-critical Hadoop project.*

**Poster Abstracts**

**Functional Logistic Regression in SAS***Linlin Fan, Lehigh University*

While Functional Regression (Ramsay and Dalzell 1991) enables the task for regressing a scalar response on an infinite-dimensional (functional) predictor, modeling dichotomous response with functional predictor calls for special treatment. Functional logistic regression is part of the generalized linear model (James 2002, Müller and Stadtmüller, 2005) that is in the framework of Functional Data Analytic (FDA; Ramsay and Silverman 1997) approaches, evaluating the dynamic association(through &#946;(t) and appropriate link function g(&#8231)) between functional predictors (x(t)) and response (Y). Similar to logistic regression, functional logistic regression facilitates a model-based classification of high dimensional and low simple size data.

To configure the functional data, functional principal components analysis (FPCA; Rice and Silverman 1991) was first adopted in this work. The implementation of functional regression was done by SAS.IML. Several modules were written to build the whole pipeline of analysis. For the illustration, Canadian weather dataset (Ramsay and Silverman 1997) was investigated for the classification of the categories of annual precipitations based on temperature profiles of a set of weather observations across Canada.

*Lin Lin Fan received her master’s degree in Industrial engineering at Lehigh University. She is currently pursuing her Master’s degree in Statistics at Lehigh University. She has been a poster presenter at previous PhilaSUG meetings.*

**Robust Approach to Create Define.xml v2.0 based SDTM/ADaM submission package**

*Vineet Jain, Independent Consultant*

CDSIC recently came out with define XML specification version 2.0. Unlike the previous version, 1.0, which was more focused on STDM, version 2.0 define.xml is designed equally well for STDM, SEND and ADaM. Define.xml version 2.0 is now integrated with NCI controlled terminology and supports more complicated value-level metadata definitions. Existing define.xml tools for previous versions are incompatible with the newer version and more sophisticated tools are needed to comply with define.xml V 2.0.

This poster presents an integrated system to create annotated CRF via FDF file (for STDM only).define.xml version 2.0 for STDM, ADAM or SEND data and define.pdf (close replica of corresponding define.xml). The system uses four validated metadata tables (one each for dataset, variables, value level metadata and controlled terminology) followed by use of SAS macros to create the needed deliverables. With this system define package creation becomes lean and issue-free. The detailed metadata specifications & corresponding tools would be shared on line.

*Vineet Jain, an independent Consultant, has over 8 years of statistical programming experience in pharmaceutical industry in Phase I-IV clinical trials. He currently supports generation of CDISC based deliverables using SAS-based self-developed tools. Vineet has extensive experience in clinical data analysis, reporting, creating CDISC based deliverables & supporting regulatory needs*

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**PhilaSUG Calendar**



**PhilaSUG Winter 2015 Meeting: Watch for our upcoming announcement on our website and broadcast on PhilaSUG-L.**

Hosted by: M&T Bank

Location: Wilmington DE

Date: 2015/03/12
Watch for the Call for Papers to be posted on our website shortly.

Philadelphia Area SAS User Group (Phila*SUG* )

Membership Form

To speed through registration complete this form (please print) and return it to the registration desk of any PhilaSUG meeting (do **NOT** mail it). Checks should be made payable to PhilaSUG. Our membership year runs from Jan. 1 to Dec. 31. Dues for the year are $30.

This is a \_\_ new, \_\_ renewal or \_\_ update / correction.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Affiliation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Day Time Phone Number: ( ) \_\_\_\_\_\_ - \_\_\_\_\_\_\_\_

***Privacy Statement*** *- Local SAS User Groups are requested to share their membership/mailing list with SAS Institute on an annual basis. We respect your privacy and will never rent, sell or trade your personal information provided with any other group or individual and the information provided will only be used for PhilaSUG mailings. We will not share your name, address and email address with SAS unless you Opt In below.*

Check this box (Opt In) if you agree to allow us to share *your name, address and email address with SAS.*

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For updates / corrections, please list your old / incorrect information below: