

Web Site: Russ-Lavery.com
Cell: 484-919-6175
Email: russ@russ-lavery.com

Russell Lavery
Apt 524 1030 E. Montgomery Ave.
Bryn Mawr, PA 19010



Summary

I have over twenty years' experience using SAS on both windows and UNIX machines. I have both built and managed data marts and then created and managed production reports produced from the data marts. I am active in the SAS community and have presented over sixty papers at SAS conferences/universities and companies all over the US, in Europe and China. I have won three best paper awards and one of my talks, with my voice, was burned onto a CD and is included in the back of Art Carpenter's book on Proc Report. I am one of sixty "SAS Partners" in the North East section of the US.

Skill Summary

Excellent SAS skills (including macros and macro quoting. I have a four hour seminar on macro quoting).
Excellent SQL skills (SAS assigns one of my SQL papers as reading in one of their courses).

Two years clinical experience in phase III oncology trials (worked on data sets, listing, tables, e-sub)

½ year clinical experience in CRO as a programmer of production macros (macros to be used by other people)

- * Programmed 100 QC checks for Adam data. This was a QC check to be used before sending out data.
- * Designed and programmed macro to compare data files from client to CDISC standards and to the previous data delivery. This smoothed the process by telling clients of changes of which they were unaware and gave advance notice to my client's programmers that their programs might crash due to data changes.
- * Created a program to examine lab tests and compare entered lab units/ranges to accepted lab units/ranges and suggest proper values when missing.

I created the first CDSIC compliant data sets to be put in the public domain.

I taught pre-conference training on CDISC, STDM and ADAM at SUGI 2008 and PharmaSUG 2008.

I have made three presentations on CDISC topics at SAS conferences:

Links to the papers are on my web site: russ-lavery.com → papers by topic → CDISC

- * Relationships among CDISC variables: Timing Variables
- * Relationships among CDISC variables: The ORRES cascade
- * Relationships among CDISC variables: Relating Data sets

For the last five years I have taught the topic of "SAS macros" in a university program in Philadelphia that trains people to be clinical programmers. I also taught SAS, to new programmers, in a start-up CRO in China

MBA in Quantitative Methods: Additional Training all courses for PhD in Marketing with Minor in Statistics.

Work Experience: I have been a SAS consultant since 2000

- * Currently studying for two SAS Certification exams: Predictive Modeler & Statistical Business Analyst
- * I am a technical reviewer for a SAS Press book: "Beyond Basic Statistics: Fundamentals of Data Mining with JMP"

Consultant at: Blue Cross of Tennessee	6/2012 to 6/2012
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SAS V9.3 (Enterprise Miner connecting to SAS on Unix machine)

*Created documentation for files & created one series of reports using billing data.

Consultant at: GlaxoSmithKline. Analytics Department	5/2011 to 6/2012
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SAS V9.1 (Base/SQL/Connect/Macro) – On Windows XP Pro and Unix

- * Created 20 file data mart using SAS – 90% of departmental reporting is done from this data mart.
- * Created custom reports for management using IMS data.

Consultant at: K&L consulting Services Inc. Analytics Department of CRO	6/2010 to 12/2010
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SAS V9.1 (Base/SQL/Connect/Macro) – On Windows XP Pro

- * Designed and wrote productivity macros and programmed 100 Adam QC checks
- * Taught SAS Macros for a startup CRO in Nanjing China.

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Consultant at: Schering Plough: Global Market Analytics Department	4/2005 to 6/2010
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SAS V8 & V9 (Base/SQL/Connect/Macro) – On Windows XP Pro and Unix
 * Manipulated commercial pharmaceutical data- IMS & Wolters Kluwer RX data for a variety of projects.
 * Investigated how physician change of address influenced stability of geographically based reports.
 * “baby-sat” UNIX server(monitored CPU/disk usage & worked with Root to assign groups/privileges)

Wrote seven papers for NESUG 2004, Pharmasug 2005 and SUGI 2005	7/2004 to 4/2005
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* I presented seven papers at NESUG 2004. T
 * Created and delivered pre-conference CDISC training for SUGI 2005.

Consultant at: Sanofi-Synthelabo: Phase III Clinical Trials Programming	4/2002 to 6/2004
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SAS V8 & V6 (Base/SQL/Connect/Macro) – On Windows NT, VAX and Unix.
 * Programmed Phase III submission to FDA (files to be submitted to FDA, tables, Listings and E-sub).

Consultant at: Bristol-Myers Squibb: Statistical Experiments & Modeling	1/2/2001 to 8/3/2001
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SAS V8 & V6 (Base/ Stat/ ETS/SQL/QC/Connect/Graph/Macro/ Access) – On Windows NT and Unix
 * Manipulated commercial pharmaceutical data-used SAS to extract/manipulate data from IMS Rx files
 * Created SAS QC Charts to identify physicians for whom BMS was losing share.
 * Used SAS to target physicians to be invited to Medical Education events.
 * Used SAS for ARIMA modeling and non-linear regression to model response to sampling & detailing
 * Used SAS to create control groups for marketing experiments
 * Modeled calendar effects (effects of holidays, weekends and months with 4 vs 5 weekends) on sales.

Consultant at: First U.S.A: Created documentation for SAS programs	11/2000 to 12/2000
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SAS V8 & V6 (Base/Connect) Access. – On Windows NT and Unix
 * Modified SAS programs to reflect changing business procedures. Documented files and programs.

Consultant at: Smith-Kline Beecham (marketing): Ad Hoc SAS programming	5/1/2000 to 7/30/2000
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SAS V8 & V6 (Base/ Stat/SQL/Connect/ Access) – On Windows NT and Unix
 * Created an algorithm to merge files with poorly matching key fields and to perform Discriminant Analysis

Milliman & Robertson, Radnor PA, SAS Programmer	9/1999 to 3/2000
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Milliman & Robertson is a Consulting Firm specializing in Health Care Actuarial Services
 * Programmed in SAS and created documentation for undocumented programs.

PNR and Associates, Jenkintown PA, Director, Research and Analysis	2/1998 to 6/99
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PNR is a Consulting Firm specializing in Econometrics and Market Research SPSS on Windows NT
 * Responsible for survey concept, writing, programming, statistical analysis & report writing.
 * Performed logistic regressions, perceptual maps, factor, cluster analysis and other multivariate techniques.
 * Performed sample size calculations and designed experiments

Christiana Care Health System, Wilmington DE, Manager, Market Research	9/1996 to 2/1998
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Christiana Care Health System is a Tertiary Care Hospital System
 SPSS -On Windows NT, SAS V6 (Base/Macro/Graph) -On Windows 98
 * Responsible for patient satisfaction surveys and custom surveys.
 * Invented a graphical method for presenting Patient Satisfaction Data, and setting management goals, that focused management attention on areas that
 1) needed improvement and 2) could be improved.
 My method was superior to the method in use by the national consulting house that did our analysis.
 The consulting house adopted my method.
 * Converted reporting system from three-week "manual & SPSS" process to an automated, two-day SAS process.
 * Presented results to CEO and high-level management groups.



Papers Presented and Professional Activities

Events Chaired

Co-organizer of the PhUSE Single Day Conference in Philadelphia on August 11, 2011

Section Chair for NESUG 2006

Published Work

Books: A 2 1/2 hour talk (with voice) is on a CD sold as part of Art Carpenter's book on PROC Report.

SAS/Statistical Presentations at Conferences, and companies

Presented at: SUGI, NESUG, SESUG, WUSS, Phila SUG, NJSUG, DCSUG, NYASUG, Baltimore SUG, Maine SUG the Philadelphia University SAS Training Program as well as private companies in the US and China

Won a "Best Paper" award (Latent Cluster Analysis in SAS) at PhUSE 2011 in Brighton Beach, UK

Won a "Best Paper" award (Knowing SQL Internals makes SQL Easy) at PhUSE 2008 in Manchester, UK

"Best Contributed Paper" (The SQL Optimizer Project: _Method and _Tree in SAS9.1) at SUGI30(2005)- Phila. PA.

STATISTICS: In addition to the talks below, I taught pre-conference statistics training at MWSUG and PharmaSUG.

An Intro. to Market Segmentation

Latent Cluster Analysis in SAS (*best paper award*)

An Intro to Poisson Regression

Matching of Test & Controls

The Logic of Hypothesis Testing

An Intro to Proc UCM

The Logic of One-Way ANOVA

The Logic of Interactions & 2Way ANOVA

The Logic of Regression

Proc Power: V9.1 (With Debbie Bauer)

The Logic of Statistical Power

The Logic of the CMH

The Logic of the Fisher's Exact test

Decision trees in SAS Enterprise Miner and JMP

CDISC: In addition to talks below, I taught pre-conference CDISC training at PharmaSUG 2008 and SUGI 2005

Relationships among CDISC variables: Timing Variables

Relationships among CDISC variables: The ORRES cascade

Relationships among CDISC variables: Relating Data sets

MACROS: In addition to talks below, I taught pre-conference macro training at PharmaSUG, WUSS and BASUG

The Map of the SAS Macro System

SAS Macro Quoting

How %Str and %NRStr Work

LARGE FILE TECHNIQUES: (These are "Speed Merging" or "Table Lookup" techniques)

The Amazing SQL Optimizer (*best paper award*)

Knowing SQL Internals makes SQL Easy (*best paper award*)

A Comparison of Speed Merging Techniques

Format Table Lookups

Key Merging and _IORC_

SAS Resource Usage for Common Procs

Version 9 Hashing

A Parallel Processing Primer (V9.1)

Key-indexing, Bitmaps & V8 Hashing

The SAS 9.1 SPDE Data Engine

Hash Tables as Programming Tools

A Day of SQL- Basics to Tricks

BASE SAS:

Proc Report

Proc Transpose

Proc Summary

The Data Step Debugger

SAS Arrays

Put and INput functions

Using Proc Tabulate and Proc Summary to Validate SAS Code

Comparing files without Proc Compare

A Program to Read Information in SAS Headers and Produce Reports for Programming Managers

Education

MBA in Quantitative Methods - Drexel University, Philadelphia PA

B.S. in Management Engineering: Worcester Polytechnic Institute, Worcester Mass.

In addition, I have taken over ten courses from SAS Institute.

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