

SKILLS

Research Skills

8+ years working in the clinical trials and epidemiological research environment.
Strong research writing skills and experience with the peer review publication process.

Statistical Skills

Conduct exploratory statistical analyses using a variety of statistical software.
Interpret results of exploratory statistical analyses using written and graphic methods.
Collaborate with other researchers to develop analysis plans.
Maintain documentation of in progress and completed analyses.
Create, modify, and document SAS programs for clinical trials.

SAS Skills

Years of experience using most aspects of: MACRO, BASE, GRAPH, STAT, SQL
Statistical procedures: MIXED, GLM, LOGISTIC, PHREG, LIFETEST, FREQ
Experienced using PROC REPORT for most reporting purposes
Proficient with PROC GPLOT including the use of ANNOTATE
Working knowledge of SAS/AF and SAS/IntrNet.

PhD dissertation

Involved advanced uses of Latent Class Analysis / Finite Mixture Models. Additional components of the analysis include covariate predictors of class membership, direct effects of covariates on class indicators, as well as the effect of class membership on categorical distal outcomes. This analysis is being conducted with MPLUS, a software package developed for Structural Equation Modeling and mixture modeling.

Office - General computer knowledge and extensive experience with MS Office.

**WORK
EXPERIENCE**

Collaborative Studies Coordinating Center (CSCC), Chapel Hill, NC

SAS Statistical Programmer 2002-2007

Statistical programmer for the CSCC where I managed the data and ran analyses for LONGSCAN (Longitudinal Study of the Children of Abuse and Neglect) as well as for TAAG (Trial of Activity for Adolescent Girls). Responsibilities included retrieving large and complex datasets, creating error reports, generating data safety and monitoring reports, creating derived datasets, developing detailed and flexible macro programs, archiving projects as completed, and running statistical analysis for publication.

Center for Injury Sciences, Birmingham, Alabama

SAS Statistical Programmer 2000 - 2002

Lead SAS statistical programmer and analyst for UAB Hospital's Center for Injury Sciences. Performed analyses with the Center's various data sets and wrote papers for publication. Also used additional software languages such as SUDAAN, SQL, Kedit and FileMaker.

CDC - National Center for Health Statistics, Hyattsville, Maryland
ASPH Intern 2000
Awarded one of the prestigious summer internships to work for the Centers for Disease Control and Prevention (CDC). Spent the summer in Washington, DC, investigating ways by which the CDC's Center for Health Statistics can better serve the public. Met with leaders from other federal agencies and developed strategies to improve the Center's services.

School of Public Health, Birmingham, Alabama
Research Writer and programmer 1999 - 2000
Hired to write several papers for NIH grant projects. Worked extensively with health assessment questionnaires from both Zimbabwe and Bangladesh. Analyzed data from these surveys, which focused mostly on health and sexual practices, using SAS and SPSS. Worked closely with professors of public health to publish the articles in international, peer reviewed journals.

Peace Corps, Senegal, West Africa
Volunteer 1998
Assigned to Senegal, West Africa, as a Community Development and Agriculture Specialist. Performed general community assessments of rural villages. Promoted specified health and hygiene behaviors such as improved well and water usage, as well as distributed improved varieties of corn, rice, sorghum, and millet to villagers. Taught techniques for cultivating the improved seed. Worked with Senegalese governmental institutions to implement their nutrition and agricultural strategies.

EDUCATION

University of North Carolina – Chapel Hill, Chapel Hill, North Carolina
PhD in Epidemiology 2003-current

University of Alabama - Birmingham, Birmingham, Alabama
Master's of Public Health - Epidemiology and Statistics 1999 - 2002
GPA: 4.0/4.0

University of Wisconsin - Madison, Madison, Wisconsin
B.A. in English 1988 - 1994
GPA: 3.85/4.0

ACADEMIC AWARDS

National Public Health Traineeship – Federal financial assistance to help pursue my studies in Public Health at the University of North Carolina.

Federal Traineeship - Awarded a federal traineeship to help support my studies in Public Health at the University of Alabama.

Phi Beta Kappa - Prestigious national academic honor awarded to students who have demonstrated broad academic accomplishment as well as academic focus.

Publications

Cobb JD, MacLennan PA, McGwin G Jr, Metzger JS, Rue LW 3rd. Motor vehicle mismatch-related spinal injury. *J Spinal Cord Med.* 2005;28(4):314-9.

George RL, McGwin G Jr, Schwacha MG, Metzger J, Cross JM, Chaudry IH, Rue LW 3rd. The association between sex and mortality among burn patients as modified by age. *J Burn Care Rehabil.* 2005 Sep-Oct;26(5):416-21.

MacLennan PA, McGwin G Jr, Metzger J, Moran SG, Rue LW 3rd. Risk of injury for occupants of motor vehicle collisions from unbelted occupants. *Inj Prev.* 2004 Dec;10(6):363-7.

Estrada LS, Alonso JE, McGwin G Jr, Metzger J, Rue LW 3rd. Restraint use and lower extremity fractures in frontal motor vehicle collisions. *J Trauma.* 2004 Aug;57(2):323-8.

Metzger J, McGwin G Jr, MacLennan PA, Rue LW 3rd. Is seat belt use associated with fewer days of lost work after motor vehicle collisions? *J Trauma.* 2004 May;56(5):1009-14.

McGwin G Jr, Metzger J, Rue LW 3rd. The influence of side airbags on the risk of head and thoracic injury after motor vehicle collisions. *J Trauma.* 2004 Mar;56(3):512-6; discussion 516-7.

McGwin G Jr, Whatley J, Metzger J, Valent F, Barbone F, Rue LW 3rd. The effect of state motorcycle licensing laws on motorcycle driver mortality rates. *J Trauma.* 2004 Feb;56(2):415-9.

McGwin G Jr, Metzger J, Porterfield JR, Moran SG, Rue LW 3rd. Association between side air bags and risk of injury in motor vehicle collisions with near-side impact. *J Trauma.* 2003 Sep;55(3):430-4; discussion 434-6.

McGwin G Jr, Metzger J, Alonso JE, Rue LW 3rd. The association between occupant restraint systems and risk of injury in frontal motor vehicle collisions. *J Trauma.* 2003 Jun;54(6):1182-7.

McGwin G Jr, Metzger J, Moran SG, Rue LW 3rd. Occupant- and collision-related risk factors for blunt thoracic aorta injury. *J Trauma.* 2003 Apr;54(4):655-60; discussion 660-2.

Gibney L, Saquib N, Metzger J. Behavioral risk factors for STD/HIV transmission in Bangladesh's trucking industry. *Soc Sci Med.* 2003 Apr;56(7):1411-24.

George RL, McGwin G Jr, Metzger J, Chaudry IH, Rue LW 3rd. The association between gender and mortality among trauma patients as modified by age. *J Trauma.* 2003 Mar;54(3):464-71.

Moran SG, McGwin G Jr, Metzger JS, Alonso JE, Rue LW 3rd. Relationship between age and lower extremity fractures in frontal motor vehicle collisions. *J Trauma.* 2003 Feb;54(2):261-5.

George RL, McGwin G Jr, Windham ST, Melton SM, Metzger J, Chaudry IH, Rue LW 3rd. Age-related gender differential in outcome after blunt or penetrating trauma. *Shock.* 2003 Jan;19(1):28-32.

Reiff DA, McGwin G Jr, Metzger J, Windham ST, Doss M, Rue LW 3rd. Identifying injuries

and motor vehicle collision characteristics that together are suggestive of diaphragmatic rupture. *J Trauma*. 2002 Dec;53(6):1139-45.

Moran SG, McGwin G Jr, Metzger JS, Windham ST, Reiff DA, Rue LW 3rd. Injury rates among restrained drivers in motor vehicle collisions: the role of body habitus. *J Trauma*. 2002 Jun;52(6):1116-20.

Gibney L, Saquib N, Metzger J, Choudhury P, Siddiqui M, Hassan M. Human immunodeficiency virus, hepatitis B, C and D in Bangladesh's trucking industry: prevalence and risk factors. *Int J Epidemiol*. 2001 Aug;30(4):878-84.