

February 10, 2015

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University of South Carolina  
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**EDUCATION**

- Ph.D. 1989 Statistics, Pennsylvania State University (co-directors Dr. C.C. Clogg and Dr. B.G. Lindsay)  
M.A. 1985 Statistics, Pennsylvania State University (directors Dr. J.D. Lynch)  
B.A. 1982 Mathematics, College of Charleston

**PROFESSIONAL EMPLOYMENT**

Minitab Inc.  
Consultant for Software Development, 8/85–8/89  
University of South Carolina  
Assistant Professor, 8/89-8/95  
Director of Statistical Laboratory, 6/93-6/12  
Associate Professor, 8/95-1/12  
Full Professor, 1/12 to present  
Department Chair, 7/12 to present

**SOCIETY MEMBERSHIPS AND PROFESSIONAL SERVICE**

Associate Editor, Journal of Applied Probability and Statistics  
American Statistical Association, International Biometric Society (ENAR)  
PStat® (ASA)

**RESEARCH INTERESTS**

Robust Parameter Design, Mixture Models, Statistical Consulting, Environmental Statistics

**PUBLICATIONS**

- Grego, J., Li, S., Lynch, J. and Sethuraman, J. (2014), "Partition Based Priors and Multiple Event Censoring: An Analysis of Rosen's Fibrous Composite Experiment," *Technometrics*, 56(3), 359-371.  
Grego, J. M. and Hitchcock, D. B. (2014), "Limited-Information Modeling of Loggerhead Turtle Population Size," *Journal of Agricultural, Biological, and Environmental Statistics*, 19, 18-38.  
J. Grego (2012). Generalized additive models in *Encyclopedia of Environmetrics Second Edition*, A.-H. El-Shaarawi and W. Piegorisch (eds). John Wiley & Sons Ltd, Chichester, UK, pp.1128-1130. DOI: 10.1002/9780470057339.vag007.pub2.

- Loudermilk, E.L., O'Brien, J.J., Mitchell, R.J., Cropper, Jr., W.P., Hiers, J.K., Grunwald, S., Grego, J., & Fernandez-Diaz, J.C. (2012). "Linking complex forest fuel structure and fire behavior at fine scales," *International Journal of Wildland Fire*, 21(7) 882=893.
- Valerio, W. H., Reynolds, A. M., Grego, J., Yap, C. C., & McNair, A. (2011). Parents' documentation of their children's music-related behaviors. In S. Burton & C. Taggart, (Eds.), *Learning from Young Children: Research in Early Childhood Music*. Lanham, MD: Rowman & Littlefield.
- J.M. Grego, P.A. Yates (2010), "Point and standard error estimation for quantiles of mixed flood distributions," *Journal of Hydrology*, 391, 289-301.
- Roland C. Deutsch, John M. Grego, Brian Habing and Walter W. Piegorsch, (2010) "Maximum Likelihood Estimation with Binary-data Regression Models: Small-sample and Large-sample Features," *Advances and Applications in Statistics*, 14(2), 101-116.
- Hiers, J.K., O'Brien, J.J., Mitchell, R.J., Grego, J.M., Loudermilk, E.L. (2009), "The wildland fuel cell concept: an approach to characterize fine-scale variation in fuels and fire in frequently burned longleaf pine forests," *International Journal of Wildland Fire*, 18, 315-325.
- West, T. N., Brown, W. H., Grego, J. M., & Johnson, R. (2008). Practitioners' judgments of peer interaction interventions: A survey of DEC members. *Journal of Early Intervention*, 30(1), 36-54.
- John Grego and James Lynch (2006), "Some Applications of Mixed Gamma Representations," *Journal of Applied Probability & Statistics*, 1, 31-37.
- E. Ezra, Z.J. Gregor, and Moorfields Macular Hole Study Group (2004), "Surgery for Idiopathic Full-thickness Macular Hole: 2-year Results of a Prospective Randomised Clinical Trial Comparing Natural History, Vitrectomy and Vitrectomy Plus Autologous Serum," *Archives of Ophthalmology*, 122, 224-236.
- J.M. Grego, (2001), "Generalized Additive Models," *Encyclopedia of Environmental Statistics*, John Wiley & Sons, 2, 851-853.
- K.L. Clark, J.H. Oliver, Jr., J.M. Grego, A.M. James, L.A. Durden, and C.W. Banks (2001), "Host Associations of Ticks Parasitizing Rodents at *Borrelia burgdorferi*-enzootic Sites in South Carolina," *J. Parasitol.* 87(6), 1379-1386.
- Marcel J.M. Reichert, John M. Dean, Robert J. Feller, John M. Grego (2001), "Somatic Growth and Otolith Growth in Juveniles of a Small Subtropical Flatfish, the Fringed Flounder (*Etropus crossotus*)," *J. Exp. Mar. Biol. Ecol.*, 254(2), 169-188.
- John M. Grego, Trevor Craney and James F. Lewis (2000), "Quantile Plots for Mean Effects in the Presence of Variance Effects for Fractional Factorial Designs," *Comm. Stat.--Simulation and Computation*, 29:4, 1109-1133.
- W.B. Driggers, III, J.M. Grego, and J.M. Dean (1998), "Age and Growth of Yellowfin Tuna, *Thunnus albacares*, in the Western North Atlantic Ocean," *Int. Comm. Conserv. Atl. Tunas SCRS/98/123*, 10p.
- E. Ezra, J.A. Wells, R.H. Gray, F.M.P. Kinsella, G.O. Orr, J.M. Grego, G.B. Arden and Z.J. Gregor (1997), "Incidence of Idiopathic Full Thickness Macular Holes in Fellow Eyes: A Five-Year Prospective Natural History Study," *Ophthalmology*, 102, 353-359.
- T. Hwang, T.P. Close, J.M. Grego, W.L. Brannon, F. Gonzales (1996), "Predilection of Brain Metastasis in Gray and White Matter Junction and Vascular Border Zones," *Cancer*, 77, 1551-1555.
- John M. Grego (1995), "PRASCH: A Fortran Program for Latent Class Polytomous Response Rasch Models," *Applied Psychological Measurement*, 17, 238.
- John M. Grego (1993), "Generalized Linear Models and Process Variation," *Journal of Quality Technology*, 25, pp. 288-295.

- Bruce G. Lindsay, Clifford C. Clogg and John M. Grego (1991), "Semi-Parametric Estimation in the Rasch Model and Related Exponential Response Models, Including a Simple Latent Class Model for Item Analysis," *JASA*, 86-86-97.
- John M. Grego, Hsiu-Li Hsi and James P. Lynch (1990), "A Strategy for Analyzing Mixed and Pooled Exponentials," *Applied Stochastic Models and Data Analysis*, 6, 59-70.
- Clifford C. Clogg, Scott P. Eliason and John M. Grego, "Models for the Analysis of Change in Discrete Variables," in *New Statistical Models for the Analysis of Longitudinal Data*, A. von Eye, ed., New York: Academic Press, 1989.

## **CURRENT/RECENT GRANTS AND CONTRACTS**

- SC Department of Natural Resources (7/1/14-6/30/15), "Statistical Support for SC DNR Freshwater Fisheries", \$6650.
- SC Department of Natural Resources (11/1/13-6/30/14), "Statistical Support for SC DNR Freshwater Fisheries", \$6650.
- NPS (8/23/12-5/31/14), "Assess the Distribution and Status of Champion Trees at Congaree National Park, CESU" (PI: John Kupfer), \$23,500.
- USC Office of the Provost (7/1/13-8/15/13), "Graduate Student Support for Analysis of Faculty Climate Survey", \$3000.
- USC Office of the Provost (3/2/15-3/6/15), "Palmetto Lecturer 2015", \$2012.
- USC Office of the Provost (3/23/14-3/29/14), "Palmetto Lecturer 2014", \$1952.
- SC Department of Education, "SC DOE Special Education Parent Survey Analysis", 2/1/14-5/15/14, \$5625
- SC Department of Education (11/1/13-2/15/14), "Special Education Parent Survey Analysis", \$5625
- SC DPS/NHTSA/DOT, "Buckle Up South Carolina Observational Survey and Attitudinal Survey" (PI: Wilma Sims), 4/3/14-7/7/14, \$57,812
- Jones Ecological Research Center, "Mixed effects modeling for ANPP data", 1/1/14-12/31/14, \$2000
- Normandeau Associates, "Statistical Support for USACE Walla Walla District Biological Services, 4/15/2014-4/14/2015, \$4616.

## **SIGNIFICANT PAST SUPPORT**

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| NSF Research Grant (8/91-1/94) on "Random Effects Rasch Models"  | \$27,400    |
| NSF-CBMS Regional Conference (3/93-8/94) on "Semiparametric mixture models: Theory and Methods with Applications in Empirical Bayes, Measurement Error and Random Effects Models-May 1993" | \$23,906    |
| National Park Service<br>PI (with Rebecca Sharitz and Bobbi Simpson) on grant for Center for Old Growth Bottomland Forest Research and Education (10/1/01-9/30/06)                         | \$1,125,000 |