

February 1, 2005

**JOHN M. GREGO**

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Columbia, SC 29209  
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Department of Statistics  
University of South Carolina  
Columbia, South Carolina 29208  
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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 to present  
Associate Professor, 8/95 to present

**SOCIETY MEMBERSHIPS AND PROFESSIONAL SERVICE**

- Associate Editor, Journal of Statistical Computation and Simulation  
American Statistical Association, International Biometric Society (ENAR)

**RESEARCH INTERESTS**

Robust Parameter Design, Mixture Models, Statistical Consulting

**PUBLICATIONS**

- 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. Elison 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.  
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 (1993), "Generalized Linear Models and Process Variation," *Journal of Quality Technology*, 25, pp. 288-295.  
John M. Grego (1995), "PRASCH: A Fortran Program for Latent Class Polytomous Response Rasch Models," *Applied Psychological Measurement*, 17, 238.  
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.

- 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.
- 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.
- 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. B*.
- 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.
- 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.
- J.M. Grego, (2001), "Generalized Additive Models," *Encyclopedia of Environmental Statistics*, John Wiley & Sons, 2, 851-853.
- 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.

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

Cranford & Associates (Safety Belt Survey), 10/03-6/04	\$6628
NSF (Alliance for Minority Participation Evaluator) Evaluated progress of South Carolina Alliance for Minority Participation (SCAMP) toward program goal of increased number of minority undergraduate science and engineering degrees. Organized collection of graduation and enrollment data for the eight colleges and universities in the Alliance. Currently conducting several studies identifying factors in first-year retention success. Project is starting 10th year and was recently successfully renewed for 5 more years (1/1/03-12/31/03).	\$11,000
Turner Environmental Services Develop spatiotemporal models for analytes in monitoring wells at waste storage and landfill sites; develop tests for trends over time. (1/1/04-12/31/04)	\$ 2,000
NIH (COBRE: Biometry Core Faculty) PI: Edsel Pena (9/1/04-8/31/05)	\$82,497
Department of Speech and Communication Disorders Statistical support (1/1/04-12/31/04)	\$7500
SC DNR Freshwater fisheries research support and training (1/1/04-6/30/05)	\$10,800
Clemson Univ/USGS Modeling the Impact of Reservoir Management on an Important Ecosystem in the Santee River Basin (3/1/04-2/28/05)	\$30,000

National Park Service \$1,125,000  
Co-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)

## PAST SUPPORT

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

## COLLABORATORS

Kerry Clark (University of North Florida)  
John Mark Dean (University of South Carolina)  
Eric Ezra (Moorfield Macular Holes Study Group)

## STUDENTS

1991 Karin Thomas, M.S. in Statistics  
1993 Tony Onwuegbuzie, M.S. in Statistics  
Dean Johnson, M.S. in Statistics  
1994 James Lewis, M.S. in Statistics  
1995 Scott Sheridan, B.S. Honors Thesis in Statistics  
1997 Trevor Craney, M.S. in Statistics  
Wenkai Hu, M.S. in Statistics  
Ted Shropshire, M.I.S. in Industrial Statistics  
1999 Craig Wheatley, M.S. in Statistics  
2000 Megan Meece, B.S. Honors Thesis in Statistics  
Denise Osborne, M.I.S. in Industrial Statistics  
Wilma Sims, M.S. in Statistics  
2001 Megan Meece, Masters in Statistics  
Caroline Hoffman, Honors Thesis in Statistics  
2002 Petko Kostadinov, Masters in Statistics  
Carl Miller (Todd Ogden, co-advisor), Ph.D. in Statistics  
2003 Cerissa Newdigate, Masters in Statistics  
2004 Deiana Stankova-Kozareva, M.S. in Statistics  
Dong Hai, M.S. in Statistics  
Current Phil Yates, Ph.D. in Statistics  
Sam Croker, M.S. in Statistics  
Emmy Smith-McKinney, M.S. in Statistics  
Amanda Ballou, M.S. in Statistics  
Zongshou Cai, M.S. in Statistics  
James Spurgon, M.I.S. in Statistics