

## CURRICULUM VITAE

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#### EDUCATION:

1995	Ph.D. Biostatistics The University of North Carolina at Chapel Hill
1988	M.A. Statistics The Pennsylvania State University, University Park, Pennsylvania
1986	B.S. Statistics Virginia Tech, Blacksburg, Virginia

#### PROFESSIONAL EXPERIENCE:

2007-present	<b>Professor</b> , Department of Biostatistics, Gillings School of Global Public Health, University of North Carolina at Chapel Hill
2002-2007	<b>Associate Professor</b> , Department of Biostatistics, School of Public Health, University of North Carolina at Chapel Hill
1999-2002	<b>Assistant Professor</b> , Department of Biostatistics, School of Public Health, University of North Carolina at Chapel Hill
1995-1999	<b>Assistant Professor</b> of Public Health Sciences (Biostatistics) Department of Public Health Sciences, Wake Forest University School of Medicine, Winston-Salem, North Carolina

- 1990-1995     **Statistical Consultant/Graduate Research Assistant**,  
Biometric Consulting Lab, University of North Carolina,  
Chapel Hill, North Carolina
- 1988-1990     **Statistician I**, Glaxo, Inc., Research Triangle Park  
Raleigh, North Carolina
- 1986-1986     **Mathematical Statistician/Summer Intern**, U.S. Department of Labor:  
The Bureau of Labor Statistics, Washington D.C.

**AFFILIATIONS:**

- 2023-present     **Biostatistician**, Center for Excellence in Assisted Living (CEAL@UNC)
- Mission is to use research to improve practice and inform policy in assisted living
  - In 2023, Carolina became the new home of this long-established national center, now supported by the Program on Disablement, Aging and Long-term Care in the Cecil G. Sheps Center for Health Services Research, and School of Social Work
  - Have served for more than twenty years as biostatistician for this research group
  - Helped design dozens of research studies and co-authored more than thirty peer-reviewed research articles in dementia and related conditions, and the quality of long-term care of the elderly
- 2014-present     **Deputy Director**, Biostatistics, Epidemiology & Research Design, North Carolina Translational and Clinical Sciences (NC TraCS) Institute
- Co-administer a biostatistics core resource of faculty biostatisticians and graduate research assistants, which provides pilot grant reviews and biostatistical consultations for over 150 requests per year to Schools of Dentistry, Medicine, Nursing, Pharmacy, Public Health and other units
  - Co-direct the Carolina Pragmatics Trials Laboratory (CAPSL)
- 1999-present     **Research Collaborator**, University of North Carolina Adams School of Dentistry
- Engage with faculty including grant proposal development, statistical analysis and manuscript writing
  - Maintain international reputation in biostatistics in oral health research, service on DSMBs of oral health studies, reviews for NIH/NIDCR and dental journals.
  - Co-author of more than fifty peer-reviewed research articles in oral health research
- 2019-2024     **Member** (term) of the Duke University Graduate Faculty, Durham, NC
- Served on dissertation committee for the Department of Biostatistics and Bioinformatics

FELLOWSHIPS, HONORS AND AWARDS:

2023	Senior Leave Award, University of North Carolina at Chapel Hill
2010	Elected Fellow, American Statistical Association
2006	Elected member of International Statistical Institute
2006	Elected Fellow of the Cecil G. Sheps Center for Health Services Research, University of North Carolina at Chapel Hill
2001	James E. Grizzle Distinguished Alumnus Award Department of Biostatistics, University of North Carolina
1998-1999	Adjunct Assistant Professor, Department of Biostatistics School of Public Health, University of North Carolina at Chapel Hill
1995	Biometric Society, Eastern North American Region, Student Travel Award Recipient
1994-1995	U.S. Public Health Service Traineeship
1990-1994	NIEHS Environmental Traineeship
1986	Cobb Whitfield Award for Outstanding Graduating Senior, Department of Statistics, Virginia Tech

EDITORSHIPS:

2018-2022	Associate Editor/Biostatistics, JAMDA-Journal of Post-Acute and Long-Term Care
2010-2011	Guest Editor for special May 2011 issue of Statistics in Biopharmaceutical Research on the occasion of a Festschrift in honor of Professor Gary G. Koch
2008-2011	Associate Editor (“Co-editor”), Sankhya, Series B (Indian Journal of Statistics)

PROFESSIONAL MEMBERSHIPS:

American Statistical Association  
The International Biometrics Society

## BIBLIOGRAPHY:

**Citations** (source: Google Scholar, accessed 04/03/2024)

h-index: 62 (62 papers with at least 62 citations)

i10-index: 185 (number of papers with at least 10 citations)

### Videography

2. Managed post-production of, and appeared in an introduction (filmed August 17, 2010), for a video interview (Nov. 11, 2005) of Professor P.K. Sen, Cary C. Boshamer Professor in Biostatistics and Professor in Statistics and Operations Research, University of North Carolina, Chapel Hill, NC <http://www.youtube.com/watch?v=kTld0MGs-Gk> (35 minutes)

1. Managed production, and appeared in an introduction, for video interview (March 16, 2010) of Professor Gary Grove Koch, Professor in Biostatistics, Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC. <http://www.youtube.com/watch?v=otJVJd5Hkx4> (37 minutes).

### Book Chapters

8. Long DL, **Preisser JS**. Count Regression Models, in Fundamentals of Oral & Craniofacial Health Research: Principles, Methods and Applications, ed. K. Divaris. Springer, in press.

7. Daaleman TP, **Preisser JS**. The life course, in Chronic Illness Care: Principles and Practice. ed. T. P. Daaleman and M.R.Helton MR. Springer International Publishing AG, 2018, p. 469-478. <https://doi.org/10.1007/978-3-319-71812-5>

6. Daaleman TP, **Preisser JS**. A life course perspective on behavior and health. in Principles and Concepts of Behavioral Medicine: A Global Handbook, eds. Fisher EB, Cameron LD, et al. Springer, New York, 2018, pp 471-485.

5. Rathouz PJ, **Preisser JS**. Missing Data: Weighting and Imputation, in Encyclopedia of Health Economics, Volume 2: Third Edition, Revised and Expanded, ed. A. J. Culyer. Elsevier, Inc., 2014, p. 292-298. DOI: 10.1016/8978-0-12-375678-7:00705-7.

4. **Preisser J**, Lu B. Cluster Trials, Chapter 49 in Encyclopedia of Biopharmaceutical Statistics: Third Edition, Revised and Expanded, ed. S. Chow. Marcel Dekker, Inc., 2010, p. 304-311.

3. **Preisser J**. Cluster Trials, in Encyclopedia of Biopharmaceutical Statistics: Second Edition, Revised and Expanded, ed. S. Chow. Marcel Dekker, Inc., 2005 1(1). DOI: 10.1081/E-EBS-120023779.

2. Qaqish B, **Preisser J**. Generalized linear models for independent and dependent data, in Handbook of Statistics, Volume 18: Bioenvironmental and Public Health Statistics, eds. P.K Sen and C.R. Rao, 2000, pages 193-222.

1. Imrey P, Koch G, **Preisser J**. The evolution of categorical data modeling: a biometric perspective in Advances in Biometry, eds. P. Armitage and H.A. David. John Wiley & Sons, Inc., 1996; pages 89-113.

Journal Articles (Peer reviewed): Biostatistical Methods (student authors are underlined)

66. Zhang Y, Preisser JS, Li F, Turner EL, Rathouz PJ. %CRTFASTGEEPWR: A SAS macro for power of generalized estimating equations analysis of multi-period cluster randomized trials with application to stepped wedge designs. *Journal of Statistical Software, Code Snippets*, 2024; 108(1), 1–27. <https://doi.org/10.18637/jss.v108.c01>

65. Meng C, Ryan, M, Rathouz PJ, Turner EL, **Preisser JS**, Li F. ORTH.Ord: An R package for analyzing correlated ordinal outcomes using alternating logistic regression with orthogonalized residuals. *Computer Methods and Programs in Biomedicine*. 2023 July; 237:107567. <https://doi.org/10.1016/j.cmpb.2023.107567>

64. Cho H, Liu C, **Preisser JS**, Wu D. A bivariate zero-inflated negative binomial model and its applications to biomedical settings. *Statist Methods Med Research. Statistical Methods in Medical Research* 2023; 32(7):1300-1317.

63. Zhang Y, **Preisser JS**, Li F, Turner EL, Toles M, Rathouz PJ. GEEMAE: A SAS macro for the analysis of correlated outcomes based on GEE and finite-sample adjustments with application to cluster randomized trials. *Computer Methods and Programs in Biomedicine*. 2023 Mar; 230:107362. doi: 10.1016/j.cmpb.2023.107362. Epub 2023 Jan 20.

62. Zhang Y, **Preisser JS**, Turner EL, Rathouz PJ, Toles M, Li F. A general method for calculating power for GEE analysis of complete and incomplete stepped wedge cluster randomized trials. *Statistical Methods in Medical Research* 2023, 32:71-87.

61. Li F, Kasza J, Turner EL, Rathouz P, Forbes A, **Preisser JS**. Generalizing the Information Content for Stepped Wedge Designs: A Marginal Modeling Approach. *Scandinavian Journal of Statistics*. 2023; 50(3):1048-1067.

60. Gallis JA, Wang X, Rathouz PJ, **Preisser JS**, Li F, Turner EL. power swgee: GEE-based power calculations in stepped wedge cluster randomized trials. *The Stata Journal* 2022; 22:811-841.

59. Tian Z, **Preisser JS**, Esserman DA, Turner EL, Rathouz P, Li F. Impact of unequal cluster sizes for GEE analyses of stepped wedge cluster randomized trials with binary outcomes. *Biometrical Journal* 2022; 64: 419-439.

58. Wang X, Turner E, **Preisser JS**, Li F. Power Considerations for GEE Analyses of Four-Level Designs. *Biometrical Journal* 2022; 64:663–680.

57. Gu Y, **Preisser JS**, Zeng D, Shrestha P, Shah M, Simancas-Pallares Ma, Ginnis J, Divaris K.

Partitioning Around Medoids Clustering And Random Forest Classification For GIS-Informed Imputation of Fluoride Concentration Data. *Ann Appl Stat.* 2022 Mar; 16(1): 551–572.

56. Shing TL, **Preisser JS**, Zink RC. GEECORR: A SAS macro for regression models of correlated binary responses and within-cluster correlation using generalized estimating equations. *Computer Programs in Biomedicine* 2021. Volume 208. September 2021. Article 106276. <https://doi.org/10.1016/j.cmpb.2021.106276>

55. Li F, Yu H, Rathouz P, Turner E, **Preisser J**. Marginal modeling of cluster-period means and intraclass correlations in stepped wedge designs with binary outcomes. *Biostatistics* 2022; 23:772-788.

54. Hemming K, Carroll K, Thompson J, Forbes A, Taljaard M, **The SW-CRT Review Group**. Quality of stepped-wedge trial reporting can be reliably assessed using an updated CONSORT: crowd-sourcing systematic review. *Journal of Clinical Epidemiology* 2019; 107: 77-88.

53. Li F, Forbes AB, Turner EL, **Preisser JS**. Power and sample size requirements for GEE analyses of cluster randomized crossover trials. *Statistics in Medicine* 2019; 38: 636-649.

52. **Preisser JS**, Inan G, Powers JM, Chu H. A population-averaged approach to diagnostic test meta-analysis. *Biometrical Journal.* 2019; 61:1, 126-137.

51. Inan G, Latif AHMM, **Preisser JS**. A Press statistic for working correlation structure selection in generalized estimating equations. *Journal of Applied Statistics.* 2019; 46:4, 621-637.

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49. Li F, Turner EL, **Preisser JS**. Optimal allocation of clusters in cohort stepped wedge designs. *Statistics and Probability Letters* 2018; 137:257-263.

48. Li F, Turner EL, **Preisser JS**. Sample size determination for GEE analysis of stepped wedge cluster randomized trials. *Biometrics.* 2018; 74(4):1450-1458.

47. Benecha H, **Preisser JS**, Divaris K, Herring AH, Das K. Marginalized zero-inflated Poisson models with missing covariates. *Biometrical Journal* 2018; 60:845-858.

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44. Smith VA, Neelon B, Maciejewski ML, **Preisser JS**. Two parts are better than one: modeling marginal means of semicontinuous data. *Health Services Outcomes and Research Methodology* 2017; 17:198-218.
43. Smith VA, **Preisser JS**. Direct and flexible marginal inference for semicontinuous data. *Statistical Methods in Medical Research* 2017; 26:2962-2965.
42. Gao X, Schwartz T, **Preisser JS**, Perin J. GEEORD: A SAS Macro for Analyzing Ordinal Response Variable with Repeated Measures through Proportional Odds, Partial Proportional Odds, or Non-Proportional Odds Models. *Computer Methods and Programs in Biomedicine* 2017; 150: 23-30.
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36. **Preisser JS**, Das K, Benecha H, Stamm JW. Logistic regression for dichotomized counts. *Statistical Methods in Medical Research*. 2016; 25:3038-3056.
35. **Preisser JS**, Das K, Long DL, Divaris K. Marginalized zero-inflated negative binomial regression with application to dental caries. *Statistics in Medicine* 2016; 35:1722-1735.
34. Hussey M, Koch G. **Preisser JS**, Saville B. Nonparametric Randomization-Based Covariate Adjustment for Stratified Analysis of Time-to-Event or Dichotomous Outcomes. *Journal of Biopharmaceutical Statistics* 2016; 26: 579-589.
33. Long DL, **Preisser JS**, Herring AH, Golin C. A Marginalized Zero-Inflated Poisson Regression Model with Random Effects. *Journal of the Royal Statistical Society, Series C* 2015, 64, 815-830.
32. Perin J, **Preisser JS**, Qaqish B, Phillips C. Regression analysis of correlated ordinal data using orthogonalized residuals. *Biometrics* 2014, 70, 902-909.

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30. Long DL, **Preisser JS**, Herring AH, Golin C. A Marginalized Zero-Inflated Poisson Regression Model with Overall Exposure Effects. *Statistics in Medicine* 2014, 33, 5151-5165.
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28. Zhao Y, **Preisser JS**, Koch GG. Sensitivity Analysis for Withdrawals in Grouped Time-to-event Data. *Statistics in Biopharmaceutical Research* 2014; 6, 41-54.
27. **Preisser JS**, Qaqish BF. A comparison of methods for simulating correlated binary variables with specified marginal means and correlations. *Journal of Statistical Computation and Simulation* 2014; 84, 2441-2452.
26. By K, Qaqish BF, **Preisser JS**, Perin J, Zink RC. ORTH: R and SAS Software for regression models of correlated binary data based on orthogonalized residuals and alternating logistic regressions. *Computer Methods and Programs in Biomedicine* 2014; 113:557-568.
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23. Qaqish BF, Zink RC, **Preisser JS**. Orthogonalized residuals for estimation of marginally specified association parameters in multivariate binary data. *Scandinavian Journal of Statistics*. 2012; 39:515-527. PMC3501755
22. Reboussin BA, **Preisser JS**, Song E-Y, Wolfson M. Sample size estimation for alternating logistic regressions analysis of multilevel randomized community trials of underage drinking. *Journal of the Royal Statistical Society, Series A*. 2012; 175:691-712.
21. **Preisser JS**, Sen PK, Offenbacher S. Multiple hypothesis testing for experimental gingivitis based on Wilcoxon Signed Rank Statistics. *Statistics in Biopharmaceutical Research* 2011; 3:372-384.
20. Teerenstra S, Lu B, **Preisser J**, van Achterberg T, Borm GF. Sample size considerations for GEE analysis of three-level cluster randomized trials. *Biometrics* 2010; 66:1230-1237.
19. Ananth CV, **Preisser JS**. Modelling the association of discrete survival times in twins using weighted least squares. *Sankhya*, 2009, 71-B, Part 2, 151-174.



18. **Perin J, Preisser J, Rathouz P.** Semi-parametric efficient estimation for incomplete longitudinal binary data with application to smoking trends. *Journal of the American Statistical Association* 2009; 104:1373-1384.
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16. **Preisser JS, Qaqish BF, Perin J.** A note on deletion diagnostics for estimating equations. *Biometrika* 2008; 95:509-513.
15. **Preisser JS, Perin J.** Deletion diagnostics for marginal mean and correlation model parameters in estimating equations. *Statistics and Computing* 2007; 17:381-393.
14. **Lu B, Preisser JS, Qaqish B, Suchindran C, Bangdiwala S, Wolfson M.** A comparison of two bias-corrected covariance estimators for generalized estimating equations. *Biometrics* 2007; 63(3): 935-941.
13. **Ahn C, Koch G, Preisser JS, Seillier-Moiseiwitsch F.** Log-linear models for mutations in the HIV genome. *Journal of Statistical Planning and Inference* 2007; 137(11):3227-3239.
12. **Young M, Preisser JS, Qaqish B, Wolfson M.** A comparison of subject-specific and population averaged models for count data from cluster-unit intervention trials. *Statistical Methods in Medical Research* 2007; 16:167-184.
11. **Hammill B, Preisser JS.** A SAS/IML Software Program for GEE and regression diagnostics. *Computational Statistics and Data Analysis* 2006; 51:1197-1212.
10. **Preisser JS, Mitchell C, Powers J, Arcury T, Gesler W.** A two-step nonparametric sample survey approach for testing the association of degree of rurality with health services utilization. *Journal of Official Statistics* 2005; 21:39-51.
9. **Preisser JS, Garcia D.** Alternative computational formulae for generalized linear model diagnostics: identifying influential observations with SAS Software. *Computational Statistics and Data Analysis* 2005; 48:755-764.
8. **Preisser JS, Young M, Zaccaro D, Wolfson M.** An integrated population-averaged approach to the design, analysis and sample size determination of cluster-unit trials. *Statistics in Medicine* 2003; 22:1235-1254.
7. **Preisser JS, Lohman K, Rathouz P.** Performance of weighted estimating equations in longitudinal studies with dropouts missing at random. *Statistics in Medicine* 2002; 21:3035-3054.
6. **Preisser JS, Galecki A, Lohman K, Wagenknecht L.** Analysis of smoking trends with incomplete longitudinal binary responses. *Journal of the American Statistical Association*, 2000; 95:1021-31.

5. Ananth C, **Preisser JS**. Bivariate logistic regression: modeling the association of small for gestational age births in twin gestations. *Statistics in Medicine* 1999; 18:2011-2023.
4. Qaqish B, **Preisser J**. Resistant fits for regression with correlated outcomes: an estimating equation approach. *Journal of Statistical Planning and Inference* 1999; 75:415-431.
3. **Preisser J**, Qaqish B. Robust regression for clustered data with application to binary responses. *Biometrics* 1999; 55:574-579.
2. **Preisser J**, Qaqish B. Deletion diagnostics for generalized estimating equations. *Biometrika*, 1996;83(3):551-562.
1. **Preisser J**, Koch G, Shockley W. Statistical considerations for cross-sectional data relating to tracheal reconstruction over time. *Journal of Biopharmaceutical Statistics* 1993; 3(2):167-183.

Journal Articles (Peer reviewed): Biostatistical and Epidemiological Methods Dissemination

20. **Preisser JS**, Shing T, Qaqish B, Divaris K, Beck J. Multiple Imputation for Partial Recording Periodontal Examination Protocols. *JDR Clinical and Translational Research* 2024; 9:52-60.
19. Shing T, **Preisser JS**, Sotres-Alvarez D, Divaris K, Beck JD. Patterns of site-level periodontal disease and within-mouth correlation in the Hispanic Community Health Study/Study of Latinos. *Community Dentistry and Oral Epidemiology* 2023; 51:927-935.
18. **Preisser JS**, Moss K, Finlayson TL, Jones JA, Weintraub JA. Prediction Model Development and Validation of 12-Year Incident Edentulism of Older Adults in the United States. *JDR Clinical & Translational Research* 2023; 8(4): 384-393.
17. Ouyang Y, Li F, **Preisser JS**, Taljaard M. Sample size calculators for planning stepped-wedge cluster randomized trials: A review and comparison. *International Journal of Epidemiology* 2022; 51(6): 2000–2013.
16. Ajazi EM, Dasgupta N, Marshall SW, Monaco J, Howard AG, **Preisser JS**, Schwartz TA. Revisiting the X BOT Naltrexone Clinical Trial Using a Comprehensive Survival Analysis. *Journal of Addiction Medicine* 2022; 16(4):440-446.
15. **Preisser JS**, Sanders AE, Lyles RH. Differential misclassification of disease under partial-cluster sampling. *JDR Clinical & Translational Research* 2018; 3(4): 388-394.
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13. **Preisser JS**, Long DL, Stamm JW. Matching the statistical model to the research question for dental caries indices with many zero counts. *Caries Research* 2017; 51:198-208.

12. Burgette JM, **Preisser JS**, Rozier RG. Propensity score weighting: an application to an Early Head Start dental study. *Journal of Public Health Dentistry* 2016; 76:17-29.
11. **Preisser JS**, Stamm JW, Long DL, Kincade M. Review and Recommendations for Zero-inflated Count Regression Modeling of Dental Caries Indices in Epidemiological Studies. *Caries Research* 2012, 46, 413-423. PMID: 22710271
10. Pahel BT, **Preisser JS**, Stearns SC, Rozier RG. Multiple imputation of dental caries data using a zero inflated Poisson regression model. *Journal of Public Health Dentistry*, 2011;71,71-78.
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8. LaVange LM, **Preisser JS**. A conversation with Gary Grove Koch, *Statistics in Biopharmaceutical Research* 2011; 3, 124-138.
7. Gillings DG, **Preisser JS**. Gary Grove Koch, Biostatistics Professor, *Statistics in Biopharmaceutical Research* 2011; 3, 110-123.
6. **Preisser JS**, Phillips C, Perin J, Schwartz TA. Regression models for patient-reported measures having ordered categories recorded on multiple occasions. *Community Dentistry and Oral Epidemiology* 2011, 39, 154-163.
5. **Preisser JS**, Reboussin B, Song E-Y, Wolfson M. The importance and role of intracluster correlations in planning cluster trials. *Epidemiology* 2007; 18: 552-560.
4. Kim H, **Preisser JS**, Rozier G, Valiyaparambil J. Multi-level analysis of group-randomized trials with binary outcomes. *Community Dentistry and Oral Epidemiology* 2006, 34:241-51.
3. **Preisser JS**, Arcury T, Quandt S. Detecting patterns of occupational illness clustering with alternating logistic regressions applied to longitudinal data. *American Journal of Epidemiology* 2003;158:495-501.
2. **Preisser JS**. Quasi-likelihood analysis of patient satisfaction with medical care. *Health Services & Outcomes Research Methodology* 2002; 3:233-245.
1. **Preisser J**, Koch G. Categorical data analysis in public health. *Annual Review of Public Health* 1997;18:51-82.

Non-peer Reviewed (Students are underlined)

22. Shrestha P, Graff M, Gu Y, Wang Y, Avery CL, Ginnis J, Simancas-Pallares MA, Ferreira Zandona AG, Ahn HS, Lin D, Preisser JS, Slade GD, Marazita ML, North KE, Divaris K. Multi-ancestry Genome-Wide Association Study of Early Childhood Caries. *medRxiv e-prints* 2024: <https://doi.org/10.1101/2024.03.12.24303742>

21. Wang X, Turner EL, Preisser JS, Li F. Power Considerations for Generalized Estimating Equations Analyses of Four-Level Cluster Randomized Trials. *arXiv e-prints* 2022: arXiv:2108.11466v3.
20. Zhang Y, **Preisser JS**, Li F, Turner EL, Rathouz PJ. %CRTFASTGEEPWR: A SAS macro for power of generalized estimating equations analysis of multi-period cluster randomized trials with application to stepped wedge designs. *arXiv e-prints* 2022: arXiv:2205.14532.
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#### PRESENTATIONS:

##### Invited

36. Cluster randomized trials. Alzheimer's Association Interdisciplinary Summer Research Institute, Chicago, IL, August 17, 2023.
35. Fast power calculation and small sample inferences on (incomplete) longitudinal cluster randomized trials based on marginal models. Society for Clinical Trials, San Diego, May 15-18, 2022.
34. Regression models with overall exposure effects for zero-inflated counts with application to dental caries indices. AADOCR/CADR Satellite Symposium, sponsored by the International Association for Dental Research: Behavioral, Epidemiologic & Health Services Research Group. Atlanta, GA, March 22, 2022.
33. Design and analysis of stepped wedge and other cluster randomized trials based upon generalized estimating equations. American Statistical Association 18<sup>th</sup> Annual Connecticut Chapter Mini-Conference. Webcast event. April 22, 2020.
32. Estimating the zero cell of multivariate binary data from partially-sampled clusters. International Conference on Statistical Distributions and Applications (ICOSDA). Plenary Speaker. Grand Rapids, MI. October 10-12, 2019.

April 13, 2024

31. GEE methods for marginal model analysis of cluster trials. International workshop on cluster randomized trials, Monash Centre, Prato, Italy, July 17-18, 2019
30. Bias-corrected estimating equations for marginal mean regression of clustered binary outcomes with application to a stepped wedge cluster randomized trial. Department of Statistics, Virginia Tech, Blacksburg, VA. January 16, 2018.
29. Nonparametric and parametric statistical methods for repeated measures in experimental gingivitis and adjustment for left truncation due to lower detection limits. Nonparametrics in Modern Biomedical and Clinical Sciences, October 16-17, 2017, Chapel Hill, NC; Conference in honor of Professors P.K. Sen and Dana Quade.
28. Regression models with overall exposure effects for zero-inflated counts. Department of Public Health Sciences, University of Virginia, Charlottesville, VA. April 6, 2017.
27. Marginal mean regression models for zero-inflated counts. Department of Epidemiology and Biostatistics, State University of New York at Albany. October 20, 2016.
26. A PRESS statistic for working correlation structure selection in generalized estimating equations. Contributed talk. Department of Biostatistics, West Virginia University, October 28, 2015.
25. Marginal mean regression for zero-inflated counts with application to dental caries indices. Department of Public Health Sciences. Medical University of South Carolina, Charleston, SC. June 9, 2015.
24. Marginalized Zero-Inflated Negative Binomial Regression Model with Overall Exposure Effects. Department of Biostatistics and Bioinformatics, Duke University, August 21, 2014.
23. Matching the statistical analysis to the research question: the case of caries indices with many zero counts. 6<sup>th</sup> International Meeting on Methodological Issues in Oral Health Research. 1-3 April 2014, Adelaide, Australia. (keynote speaker).
22. Cluster-randomized trial design and analysis. Australian Research Centre for Population Oral Health, University of Adelaide, Australia. March 28, 2014.
21. Logistic regression for dichotomous counts. Meeting of the South Australian Branch of the Statistical Society of Australia. Adelaide, Australia. March 26, 2014.
20. A comparison of methods for generating correlated binary variates with specified marginal means and correlations (with Bahjat Qaqish). International Symposium in Statistics (ISS) on Longitudinal Data Analysis Subject to Outliers, Measurement Errors, and/or Missing Values. St. John's, NL, Canada, July 16-18, 2012. (<http://www.iss-2012-stjohns.ca/InvitedSpeakers.php>)

19. Biostatistics as a problem-oriented approach for health research. Department of Statistics, Virginia Tech, Blacksburg, Virginia, 2011.
18. Discussant (and Organizer). Session in Honor of Professor Gary Koch on his Festschrift. Joint Statistical Meetings. Miami, 2011.
17. Analysis of count data having zeros with application to dental caries. Clinical Translational Science Institute, University of Pittsburgh, 2009.
16. Use and interpretation of zero-inflated count data models: application to a caries clinical trial. Task Force on Design & Analysis in Oral Health Research semi-annual meeting, Newark, 2009.
15. Software development for GEE and Orth. Biometrics ENAR meeting, San Antonio, March, 2009.
14. Finite Sample Bias-corrections to Sandwich Covariance Estimators for Longitudinal and Clustered Data. Joint Statistical Meetings at Salt Lake City, 2007.
13. Improving the sandwich covariance estimator for marginal mean and within-cluster association regression models. Division of Biostatistics, University of Pennsylvania, November, 2005.
12. GEE regression diagnostics and an improved variance estimator for marginal association models. Duke Clinical Research Institute, Durham, North Carolina, 2005.
11. Statistical strategies for addressing dropout in longitudinal trials: LOCF vs. mixed models, GlaxoSmithKline, Inc. Research Triangle Park, NC 2004.
10. Variance estimation in bivariate binary-response transition models. Department of Health Evaluation Sciences, University of Virginia, Charlottesville, Virginia, 2004.
9. Variance estimation in bivariate binary-response transition models. Department of Biostatistics, Virginia Commonwealth University, Richmond, Virginia, 2004.
8. A biostatistical perspective on the use of generalized estimating equations. Biometrics ENAR meeting, Tampa, March, 2003.
7. Survey results on healthcare use in western North Carolina: the Mountain Accessibility Project. Institute of Public Health, Jagiellonian University, Krakow, Poland, 2003.
6. Analysis of smoking trends with incomplete longitudinal binary responses using weighted estimating equations, Statistical Methods and Epidemiology Working Group, Department of Biostatistics, Harvard University, Boston, 2002.
5. Analysis of longitudinal binary data subject to missingness. Department of Biostatistics and Bioinformatics, Duke University, Durham, North Carolina 2001.

4. A quasi-likelihood analysis of patient satisfaction with patient-doctor communication. Department of Biostatistics, Virginia Commonwealth University, Richmond, Virginia 1998. GEE: What is it and why does it matter. Biometrics ENAR meeting, Pittsburgh, 1998.
3. Resistant fits using modified generalized estimating equations. Department of Statistics, Virginia Tech, Blacksburg, Virginia, 1997.
2. Generalized estimating equations: regression diagnostics and resistant fits. Penn State College of Medicine, Hershey, Pennsylvania, 1995.
1. Generalized estimating equations: regression diagnostics and resistant fits. Wake Forest University School of Medicine, Winston-Salem, North Carolina, 1995.

#### Contributed

20. A generalized estimating equations approach for the statistical power and analysis of longitudinal cluster randomized trials. Current Developments in Cluster Randomized Trials and Stepped Wedge Designs Queen Mary University of London, November 15, 2021.
19. Estimating the Zero Cell of Multivariate Bernoulli Data from Partially-Sampled Clusters (with Bahjat Qaqish). Joint Statistical Meetings, Denver, 2019.
18. An integrated population-averaged approach to the design, analysis, and sample size determination of stepped wedge cluster randomized trials (with Fan Li and Elizabeth Turner). Meeting on “Current developments in cluster randomised trials and stepped wedge designs”, Queen Mary University, London, 2017.
17. Nonparametric Testing in Stent-induced Biofilm Overgrowth Experiments. 7<sup>th</sup> International Conference: Methodological Issues in Oral Health Research, Bergen, Norway, 2016
16. A Press statistic for working correlation structure selection in generalized estimating equations. Contributed talk. Joint Statistical Meetings, Seattle, 2015.
15. Marginalized Zero-Inflated Negative Binomial Regression Model with Overall Exposure Effects. Contributed speed poster. Joint Statistical Meetings, Boston, 2014.
14. Logistic regression for dichotomized counts. (E-poster) Joint Statistical Meetings, Montreal, 2013.
13. Review and Recommendations for Zero-inflated Count Regression Modeling of Dental Caries Indices in Epidemiological Studies. 5<sup>th</sup> International Meeting on Methodological Issues in Oral Health Research, Graz, Austria, 2012.
12. Alternating logistic regressions for cluster trials with binary outcomes. Joint Statistical Meetings at Vancouver, BC, 2010.



11. Loglinear Modeling of Health Services Use in a Sample Survey. Joint Statistical Meetings at Washington, DC, 2009 (topic contributed talk).
10. Deletion diagnostics for alternating logistic regressions. International Biometrics Society, ENAR spring meeting, Tampa, 2006.
9. GEE diagnostics for marginal association models. Joint Statistical Meetings at Minneapolis, 2005.
8. Design Issues in a large non-randomized community trial to reduce underage drinking. Biometrics, ENAR meeting, Chicago, 2000.
7. Analysis of smoking trends with longitudinal binary responses subject to dropout (poster). Biometrics ENAR meeting, Atlanta, 1999.
6. A quasi-likelihood analysis of patient satisfaction with patient-doctor communication. Wake Forest University School of Medicine, Winston-Salem, North Carolina, 1998.
5. Bivariate logistic regression: modeling concordance of small-for-gestational-age births in twins. Wake Forest University School of Medicine, Winston-Salem, North Carolina, 1997.
4. Weighted generalized estimating equations. Wake Forest University School of Medicine, Winston-Salem, North Carolina, 1997.
3. Generalized estimating equations: regression diagnostics and resistant fits. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 1995.
2. Resistant fits for correlated binary regression with medical applications. ENAR Meeting, Birmingham, Alabama, 1995.
1. Influence measures for generalized estimating equations. Joint Statistical Meetings, Toronto 1994.

Co-authored Biostatistical Presentations (presented by another person, students are underlined)

30. Estimating Higher Order Parameters of Multivariate Bernoulli Data from Partially-Sampled Clusters. International Conference on Statistical Distributions and Applications (ICOSDA). Edwards S, Preisser J. Huntington, WV. October 13-15, 2022. (*Student poster session*).
29. The impact of unequal cluster sizes for design and analysis of stepped wedge trials based on GEE with binary outcomes. Li F, Preisser J, Rathouz P, Turner E, Tian Z, Zhang Y, Meng C, Ryan M, Wei F. Society for Clinical Trials, San Diego, May 18, 2022. (*Invited talk*)
28. A case study on the design and analysis of longitudinal stepped wedge cluster randomized trials based on marginal models. Turner E, Preisser J, Li F, Rathouz P, Zhang Y, Meng C, Ryan

- M, Wei F. Society for Clinical Trials, San Diego, May 18, 2022. (*Invited talk*)
27. A SAS Macro for the Power of Generalized Estimating Equations Analysis of Cluster Randomized Trials with the Application to Stepped Wedge Designs. Society for Clinical Trials. Zhang Y, Preisser JS. San Diego, May 17, 2022.
26. A SAS Macro for fast calculation of GEE power for longitudinal cluster randomized trials. Rathouz P, Zhang Y, Preisser J, Turner E, Li F. Current Developments in Cluster Randomized Trials and Stepped Wedge Designs Queen Mary University of London, November 15, 2021.
25. A SAS macro for the analysis of Cluster Randomized Trials based on GEE/MAEE. Zhang Y, Preisser JS, Rathouz PJ, Turner EL. Li, F. Current Developments in Cluster Randomized Trials and Stepped Wedge Designs Queen Mary University of London, November 15, 2021.
24. Power considerations for generalized estimating equations analyses of four-level designs. Wang X, Turner E, Preisser J, Li F. ENAR 2021 (virtual), March 17, 2021.
23. Power considerations for generalized estimating equations analyses of four-level designs. Wang X, Turner E, Preisser J, Li F. Society of Clinical Trials 2021.
22. Impact of unequal cluster sizes for GEE analyses of stepped wedge cluster randomized trials with binary outcomes. Tian Z, Preisser JS, Esserman DA, Turner EL, Rathouz P, Li F. Society of Clinical Trials 2021.
21. Power and Sample Size Requirements for GEE Analyses of Cluster Randomized Crossover Trials. Li F, Forbes AB, Turner EL, Preisser JS. Joint Statistical Meetings. Vancouver, British Columbia, Canada, July 2018.
20. Sample Size Estimation for Marginalized Zero-inflated Count Regression Models. Long DL, Long D, Preisser JS. International Biometrics Society, ENAR spring meeting, Atlanta, March, 2018.
19. Sample size determination for GEE Analysis of Stepped Wedge Cluster Randomized Trials. Li F, Turner EL, Preisser JS. International Biometrics Society, ENAR spring meeting, Atlanta, March, 2018. *The Presenter (F. Li) received a Distinguished Student Paper Award at the International Biometric Society ENAR conference in Atlanta, 2018.*
18. Sample Size Determination for GEE Analyses of Stepped Wedge Cluster Randomized Trials. Li F, Turner EL, Preisser JS. 12<sup>th</sup> International Conference on Health Policy Statistics, Charleston, SC, January 2018.
17. A flexible marginalized two-part model for semicontinuous data. Smith VA, Neelon B, Preisser JS, Maciejewski M. Joint Statistical Meetings (JSM), 29 July-3 August 2017, Baltimore.

(*contributed talk*).

16. A score test for over-dispersion in marginalized zero-inflated Poisson regression models. Inan G, Preisser J, and Das K. Joint Statistical Meetings (JSM), 29 July-3 August 2017, Baltimore. *Presenter received an Institute of Mathematical Statistics travel award*

15. A criterion for selection of working correlation structure in generalized estimating equations. Inan G, Latif M, Preisser J. The International Society for Clinical Biostatistics (ISCB), 9-13 July, 2017, Vigo, Spain. *Presenter received an ISCB2017 Conference travel grant*

14. A score test for over-dispersion for marginalized zero-inflated Poisson regression models. Inan G, Preisser J, and Das K. 9th EMR-IBS and Italian Region Conference, 8-12 May 2017, Thessaloniki, Greece. *Presenter received an International Biometric Society travel grant*

13. Marginalized bivariate zero-inflated Poisson regression. Benecha H, Preisser JS, Das K, Neelon B. International Biometrics Society, ENAR spring meeting, Washington DC, March, 2017. (*invited talk*).

12. Two-part models for longitudinal semicontinuous data. Smith VA, Neelon B, Preisser JS, Maciejewski M. XXVIIIth International Biometric Conference. Victoria, British Columbia, July 10-15, 2016. (*invited talk*).

11. The changing landscape of zero-inflated models with random effects for count data. Long DL, Preisser JS, Herring A, Zhu M. XXVIIIth International Biometric Conference. Victoria, British Columbia, July 10-15, 2016. (*invited talk*).

10. A Marginalized Zero-inflated Poisson Regression Model with Random Effects. Long DL, Preisser JS, Herring AH, Golin C. Joint Statistical Meetings, Boston, 2014. e-poster. August 6, 2014.

9. A Marginalized Two-Part Model for Semicontinuous Data. Smith VA, Preisser JS, Neelon B, Maciejewski ML. Women in Statistics Conference. May 15-17, 2014, Cary, NC.

8. A Marginalized Zero-Inflated Poisson Regression Model with Overall Exposure Effects. Long DL, Preisser JS, Herring AH, Golin C. Joint Statistical Meetings, Montreal, 2013. *The first author received a Young Investigator Award from the Section on Statistics in Epidemiology of the American Statistical Association.*

7. Sample size considerations for GEE analyses of three-level cluster randomized trials. Teerenstra S, Lu B, Preisser J, Van Achterberg T and Borm G. 30th Annual conference of the International Society for Clinical Biostatistics, 23-27 August 2009, Prague, Czech Republic.

6. Semi-parametric efficient estimator for incomplete longitudinal binary data with application to smoking trends. Jamie Perin, John S. Preisser. Joint Statistical Meetings, August 3-7, 2008, Denver, Colorado. (This paper was a recipient of a travel award from the ASA Section on Health Policy Statistics).

5. Some aspects of model assessment when using GEE. B. Qaqish, J. Preisser. International Biometrics Society, ENAR spring meeting, Atlanta, 2007. (*invited talk*).
4. Random cluster size, Within-cluster resampling, and generalized estimating equations. E. Andraca-Carrera, B. Qaqish, J. Preisser. International Biometrics Society, ENAR spring meeting, Atlanta, 2007.
3. GEE with design-based correlation structures for cluster-unit trials. M. Young, J. Preisser. Joint Statistical Meetings at Atlanta, 2001.
2. Is degree of rurality associated with health service use? C. Mitchell, J. Preisser, W. Gesler, T. Arcury. International Biometrics Society, ENAR spring meeting, Charlotte, 2001.
1. Use of propensity scores in a non-randomized community trial: the Enforcing Underage Drinking Laws Program. Zaccaro D, Wolfson M, Preisser J. Joint Statistical Meetings, Indianapolis, IN, 2000.

#### TEACHING AND MENTORING EXPERIENCE:

##### Courses taught

2006-2020 (even years)	BIOS 765 (Models and Methods in Categorical Data Analysis), Instructor, Department of Biostatistics, University of North Carolina at Chapel Hill
2002, 2004	BIOS 265 (Models in Categorical Data Analysis), Instructor, Department of Biostatistics, University of North Carolina at Chapel Hill
2000	BIOS 265 (Models in Categorical Data Analysis), Co-instructor with Gary Koch Department of Biostatistics, University of North Carolina at Chapel Hill
1998, 1999	EPID 708/HSRE 708 (Applied Linear Models), Instructor, Wake Forest University School of Medicine, Winston-Salem, North Carolina
1987, 1988	Introductory Statistics, Instructor, Department of Statistics, The Pennsylvania State University, University Park, Pennsylvania

##### Guest lectures and seminars at the University of North Carolina

March 5, 2019 (+3-6-18 & 3-23-17)	“Cluster-randomized Trials”, Epidemiology 733: “Clinical Trials”.
March 19/21, 2018	“Weighting and Imputation Methods for Missing Data in Longitudinal Studies”, guest lecture in Bios 767 “Longitudinal Data Analysis”.

April 13, 2024

- November 18, 2016 “Cluster-randomized Trials and Stepped Wedge Designs.” Biostatistics Seminar Series for Clinical and Translational Scientists, University of North Carolina at Chapel Hill.
- October 12, 2015 “Stepped Wedge Crossover Randomized Trials.” AHRQ NRSA Seminar, University of North Carolina at Chapel Hill.
- January 16, 2015 “Marginal mean regression for zero-inflated counts with application to dental caries indices.” Biostatistics Grand Rounds, North Carolina Translational Research and Clinical Sciences Institute, Chapel Hill, NC.
- April 14, 2015 “Cluster Trials”, guest lecture in EPID 804, Masters of Science in Clinical Research program, University of North Carolina
- Jan 16, 2015 “Marginal mean regression for zero-inflated counts with application to dental caries indices.” The North Carolina Translational and Clinical Sciences (NC TraCS) Institute Biostatistics Grand Rounds, University of North Carolina
- Oct 10, 2013 “Cluster-randomized trials.” Biostatistics Seminar Series for Clinical and Translational Science Investigators. The North Carolina Translational and Clinical Sciences (NC TraCS) Institute, University of North Carolina
- March 25/27, 2013  
April 21/23, 2014 “Weighting and Imputation Methods for Missing Data in Longitudinal Studies”, guest lecture in Bios 767 “Longitudinal Data Analysis”.
- 2007-2011 (all years) “Generating Valid and Effective Samples” and “Sampling Issues in Three Health Studies”, HPA 885, Methods in Health Services Research School of Public Health, University of North Carolina.
- Nov 7, 2005 Issues of Clustering in the Mountain Accessibility Project. National Service Research Training Award Program Seminar Series, Cecil. B. Sheps Center for Health Services Research, University of North Carolina.
- April 30, 2003 “Exact Logistic Regression: Ordinal Exposure Variable” Epid 303, Oral Epidemiology, School of Public Health, University of North Carolina.
- April 16, 2003 “Exact Logistic Regression and Related Topics” Epid 303, Oral Epidemiology, School of Public Health, University of North Carolina.
- February 12, 2002 “Alternating logistic regressions: modeling clustering of binary outcomes” Epid 369, School of Public Health, Univ. of North Carolina.
- April 2001 Analysis of longitudinal binary data subject to missingness. James E. Grizzle Distinguished Alumnus Award Lecture, Dept of Biostatistics,
- April 13, 2024

University of North Carolina.

- April 6, 2000 “Statistical Methods for the Analysis of Interventions: Anova versus Mixed Model Analysis of Repeated Measures” Nursing 337, School of Nursing, University of North Carolina.
- June 1999 “Weighted Generalized Estimating Equations for Missing Longitudinal Data”. Bios 250 “Missing Data” course, Department of Biostatistics, University of North Carolina at Chapel Hill.
- October 1, 1998 “Sample Size Calculation for Clinical Trials”, Epidemiology Masters Program Students, Wake Forest University.
- March 13, 1997 “Statistical Issues in Planning and Implementing a Research Study” and “Power and Sample Size Considerations”, delivered for the Health Services Research Center Workshop
- October 10, 1996 “Repeated Measures for Categorical Data”, Epid 409, Wake Forest University.
- April 19, 1996 “Statistical Issues in Planning and Implementing a Research Study” and “Power and Sample Size Considerations”, two lectures delivered for the Health Services Research Center Workshop

Junior Faculty Mentoring

*University of North Carolina Department of Biostatistics Faculty Mentoring Program*

Todd Schwartz	Biostatistics, 2008-2020
Robert Agans	Biostatistics, 2015-2024
Matthew Loop	Biostatistics, 2017-2019
Bonnie Shook-Sa	Biostatistics, 2020-current

*National/International*

Gul Inan	Department of Mathematical Engineering, Istanbul Technical University, Istanbul, Turkey, 2016-2019
Duha Hamed	Department of Mathematics, Winthrop University, Rock Hill, SC, 2020-2024

Doctoral Research Supervision\*

*University of North Carolina Biostatistics Doctoral Students*

Susan Edwards	Ph.D. Dissertation Advisor. Current.
Ying Zhang	Ph.D. Dissertation Co-Advisor with Paul Rathouz. (“Population-averaged models with GEE analysis in CRTs, focusing on power calculation under incomplete design, count outcomes, and computing tools with finite sample adjustments”). 2023.
Tracie Shing	Dr.PH Dissertation Advisor. (“Marginal modeling and multiple imputation methods for correlated binary data generated from clinical periodontal examinations”). 2021.
Habtamu Benecha	Ph.D Dissertation Advisor (“Marginally-specified mean models for counts with Mixture distributions”). 2016.
Valerie A Smith	Dr.PH Dissertation Co-advisor with Brian Neelon (“Marginalized Two-part models for semicontinuous data with application to medical costs”. May 2015.
Kelley Wekheye	Dr.PH Dissertation Advisor (“Statistical Methods for Repeated Measures In Experimental Gingivitis With Adjustment For Left Truncation Due To Lower Detection Limits”). August 2014.
Dorothy Leann Long	Ph.D. Dissertation Co-advisor with Amy Herring. (“Marginalized Zero-inflated Poisson regression”). May 2013.
James Powers	Dr.PH Dissertation Co-advisor with Haitao Chu (“Population-averaged models for diagnostic accuracy studies and meta-analysis”). May 2013.
Jamie Perin	Ph.D. Dissertation Advisor (“Improved generalized estimating equations for incomplete longitudinal binary data, covariance estimation in small samples, and ordinal data”). December 2009. <i>Dr. Perin received the Biostatistics Department’s 2019 Grizzle Distinguished Alumni Award</i>
Bing Lu	Dr.PH Dissertation Advisor (“Estimating correlation parameters in cluster trials with binary responses using estimating equations”). May 2005.
Mary L. Young	Dr.PH Dissertation Advisor (“Generalized estimating equations with design-based correlation structures for cluster-unit trials”). Dec 2003.

\* I have served on numerous doctoral committees in the Departments of Biostatistics, Epidemiology, and Health Policy and Management, Gillings School of Global Public Health, and in the School of Nursing at the University of North Carolina.

Dissertation Committee Memberships (since 2015, University of North Carolina unless noted)

Jipcy Amador	Biostatistics, current
Ryan McBride	Biostatistics, current
Emily Shives	Biostatistics, 2024
Helal El-Zataari	Biostatistics, 2024
Elaine Kearney	Biostatistics, 2023
Tomaz Alves da Silva Neto	Oral & Craniofacial Biomedicine, 2023
Nikki Freeman	Biostatistics, 2022
Xueqi Wang	Duke University, Biostatistics & Bioinformatics, 2022
Hannabeth Francino-Olsen	Maternal and Child Health, 2021
Elizabeth M. Ajazi	Biostatistics, 2021
Bonnie Shook-Sa	Biostatistics, 2020
Reuben Adatorwovor	Biostatistics, 2020
Arkopal Choudhury	Biostatistics, 2020
Jing Yu	Biostatistics, 2019
Rebecca Wilson	Biostatistics, 2018
Marziye Eshghi	Division of Speech and Hearing Sciences, 2018
Byron Jaeger	Biostatistics, 2017
Bradley Saul	Biostatistics, 2017
Hengui Sun	Biostatistics, 2016
John Bainbridge	Biostatistics, 2016
Eric Daza	Biostatistics, 2015
Bradley Hammill	Biostatistics, 2015
Diana Lam	Biostatistics, 2015

*University of North Carolina Health Policy Management Doctoral Students (Advisor: RG Rozier)  
(I served as the sole biostatistician on these committees leading to 16 publications listed above)*

Jacqueline Burgette	PhD Committee Member (“The Impact of Early Head Start on Children's Oral Health“). May 2016.
Ashley Kranz	PhD Committee Member (“Comparing the Effect of Delivery Models for Preventing Dental Caries in Young Children on Dentist Visits, Caries-Related Treatments, and Dental Caries Status”). May 2013.
Heather Beil	PhD Committee Member (“The Effect of Early and Regular Preventive Dentist Visits on Treatment Use, Costs and Dental Disease”) December 2010.
Bhavna Pahal (Talekar)	PhD Committee Member (“Referrals for Dental Care in a Medical Office-Based Preventive Dental Program”) May 2008. <i>Won best dissertation award in the Department of Health Policy and Administration.</i>



Master's Papers Advised (Around 2022, the Department ceased having masters papers)

*University of North Carolina Biostatistics Graduate Students*

John Cantrell	“Multiple Imputation of a Categorical Predictor with a High Proportion of Missingness in Marginalized Zero inflated Negative Binomial Models with Random Effects for Clustered Data”, 2020.
Rujin Wang	“Prevalence estimation for correlated binary data from conditional linear family using random partial cluster sampling”, 2016.
Reuben Adatorwovor	“Time course of development of stop consonants in children of repaired cleft palate/lip”, 2016.
Sarah Marks	“Estimation of the prevalence of disease among clusters using random partial-cluster sampling”, 2015.
Habtamu Benecha	“Two-part zero-altered count regression models for a binary outcome, with application to comparing the anti-caries efficacy of three toothpaste formulations in a clinical trial”, 2014.
David Henke	“Logistic regression modeling: Compensating for an incomplete covariate via use of weights”. MPH, 2014.
Dongming Lin	“Partial proportional odds models for sensory retraining data”. 2006.
Jamie Perin	“Correlated health care outcomes from the Mountain Accessibility Project cluster sample survey in rural North Carolina”. 2005.
Bradley Hammill	“A SAS/IML software program for GEE and regression diagnostics”. 2005.
Daniel Garcia	“Alternative computational formulae for generalized linear model diagnostics: identifying influential observations with SAS software”. 2002.
Cicely Mitchell	“Is degree of rurality associated with health service use?” 2001.
**Guosheng Yin	“Repeated measures data analysis of managing uncertainty in cancer”. 2000. <i>Received award for the Best Master's Paper in the Department.</i>
Xiangqiong Gu	“Linear Mixed Model analysis of a grouped randomized trial of migrant farmworkers to increase protective behaviors against pesticide use in tobacco fields”. 2000.

Curriculum Development and Instructional Design

- 2006-2020      Developed complete set of course notes for Bios 765, Models and Methods in Categorical Data Analysis, University of North Carolina at Chapel Hill
- 1999            Chair, committee to make recommendations to restructure first year Masters of Science linear models sequence, University of North Carolina Dept. Biostatistics
- 1998            Member, Health Services Research Master's Program Executive Committee, Wake Forest University School of Medicine.

FUNDING

Current

- 2022-2027      Evaluating a National Person-Centered Training Program to Strengthen the Dementia Care Workforce. R01 AG079124. National Institute on Aging. (Principal Investigator: Zimmerman).
- 2022-2027      A Pragmatic Crossover Trial to Test the Effectiveness of a Novel Lighting System to Reduce Nighttime Falls in Persons with Alzheimer's Disease and Related Dementias. R01 AG075010. National Institute on Aging (Principal Investigator: Zimmerman).
- 2021-2026      Phase II, Proof-of-Concept Randomized Controlled Trial to Evaluate Dental Caries Preventive Effects of Fluoridated Bottle Water. UH3 DE029169. National Institute of Dental and Craniofacial Research (Principal Investigator: Slade).
- 2021-2023      Age Cohort Changes in Oral Conditions and Life Transitions in the United States Health and Retirement Study. R03 DE030161. National Institute of Dental and Craniofacial Research (Principal Investigator: Weintraub).
- 2020-2023      Incomplete Stepped Wedge Designs: Methods for Study Planning and Analysis. Patient Centered Outcomes Research Institute (PCORI [ME-2019C1-16196](#)).  
**Principal Investigator.**
- 2019-2024      Development of Stop Consonants in Children with Repaired Cleft Palate. R01 DE022566. National Institute of Dental & Cranofacial Research (Principal Investigator: Zajac).
- 2018-2030      North Carolina Translational & Clinical Sciences Institute (NC TraCS) - Biostatistics, Epidemiology, and Research Design (BERD) UL1 TR002489, and from 2023, UM TR004406. National Center for Advancing Translational Sciences. (Principal Investigator: Buse). Role: Biostatistics Service Deputy Director.

- 2018-2023 Connect-Home: Testing the Efficacy of Transitional Care of Patients and Caregivers during Transitions from Skilled Nursing Facilities to Home. R01 NR017636. National Institute of Nursing Research. (Principal Investigator: Toles).
- 2018-2023 Adapting an Evidence-Based Program that Improves Oral Hygiene and Health for Assisted Living Residents with Dementia. R01 AG061966. National Institute on Aging. (Principal Investigator: Zimmerman).

Past

- 2018-2020 Reducing Nighttime Falls in Assisted Living Residents with Alzheimer's Disease and Related Dementias. R21 AG059111 (Principal Investigator: Zimmerman). National Institute on Aging.
- 2015-2020 Addressing Behavior and Mood in Assisted Living: Organizational Characteristics Related to the Use of Antipsychotic and Psychotropic Medications and Alternative Practices. 5 R01 AG050602 (Principal Investigator: Zimmerman).
- 2015-2020 Genome-Wide Association Study of Early Childhood Caries. National Institutes of Health. (Principal Investigator: Divaris).
- 2018-2019 Monash University Network of Excellence grant. 2018-2019. Forbes AB, Kasza J, Haines T, Hemming K, Taljaard M, Hooper R, Copas A, Hughes J, Preisser J, Turner EL. International Network for Innovative Cluster Randomised Trial Designs. \$83,900 AUD.
- 2013-2018 Daily Mouth Care to Prevent Pneumonia in Nursing Homes: A Systems-Level Approach. 1 R01 HS022298. Agency for Healthcare Research and Quality (Principal Investigator: Zimmerman).
- 2013-2018 Development of Stop Consonants in Children with Repaired Cleft Palate. 1 R01 DE022566, National Institute of Dental & Cranofacial Research (Principal Investigator: Zajac).
- 2013-2018 North Carolina Translational & Clinical Sciences Institute (NC TraCS) 1 UL1 TR001111-01. National Institutes of Health. Biostatistics Core Deputy Director.
- 2012-2018 Individually Tailored Lighting System to Improve Sleep in Older Adults, 5 R01 AG042602-02 Subcontract, Rensselaer Polytechnic Institute, (Principal Investigator: Figueiro).
- 2012-2018 Alzheimers Medical Advisor A Symptom and Sign Management Toolkit for Caregivers. 4 R01 NR014199, National Institute of Nursing Research. (Principal Investigator: Sloane).

- 2014-2018 Infection Management and Antibiotic Stewardship in Nursing Homes. Agency for Healthcare Research and Quality. R18 HS022846. (Principal Investigator: Sloane).
- 2010-2017 Biomarkers of periodontal Disease Progression. The Forsyth Institute/NIDCR 5 U01 DE021127. (Principal Investigator: Teles).
- 2016-2017 A Feasibility Study of Retinal Screening Using the RetinaVue 100 Hand-Held (non-mydratic) Camera in Outpatient Dialysis Centers. Welch Allyn, Inc. (Principal Investigator: Garg).
- 2010-2015 Atherosclerosis Risk in Communities (ARIC) Study - Coordinating Center, HHSN268201100005C, National Heart, Lung and Blood Institute (Principal Investigator: Couper).
- 2009-2014 Influences on Stability Following Orthognathic Surgery, 5 R01 DE005215-32, National Institute of Dental & Cranofacial Research (Principal Investigator: Phillips).
- 2011-2014 Developing Best Nursing Practices in Assisted Living, Robert Wood Johnson Found. (Principal Investigator: Beeber).
- 2008-2014 Prevention of dental caries in early head start children, 1 R01 DE018236-01 NIH, (Principal Investigator: Rozier).
- 2011-2013 Functional Outcomes of Cleft Lip Surgery, 1 R34 DE022077-01, NIH/NIDCR (Principal Investigator: Trotman).
- 2010-2012 Improving Oral Hygiene Care in Nursing Homes: The Daily Mouth Care (Tooth Brushing) Program, FutureCareNC (Principal Investigator: Sloane).
- 2008-2012 Blue-white light therapy for circadian sleep disorders in Alzheimer's Disease, 5 R21 AT004500-02, National Center for Complementary & Alternative Medicine (Principal Investigator: Sloane).
- 2006-2012 A Family-Staff Partnership to Improve LTC Quality, 5 R01 AG025443-03 National Institute on Aging (Principal Investigator: Zimmerman).
- 2006-2012 Xylitol Adult Caries Trial (X-ACT) - Administrative Supplement, NIDCR, 5 U01 DE018048-05 (Principal Investigator: Shugars).
- 2007-2012 Selective Screening for Osteoporosis in Younger Postmenopausal Women, 5 K23 RR024685-04, National Center for Research Resources (Principal Investigator: Gourlay).

- 2011-2011 A randomized parallel study comparing the interproximal plaque and gingivitis effects of three interdental cleaning modalities. Philips Oral Healthcare (Principal Investigator: Offenbacher).
- 2007-2011 Clustering of Underage Alcohol Use in Communities & its contextual influences. **Principal Investigator** of subcontract to Wake Forest University.
- 2006-2011 Phenotype and Gene Expression Profile in Odontogenetic Tumors, 5 R01 DE016079-03, NIDCR (Principal Investigator: Wright).
- 2007-2010 Estimating Association of Clustered Ordinal Dental Data, 1-R03-DE017907-01, A1, National Institute of Dental and Craniofacial Research. **Principal Investigator**.
- 2005-2009 Estimation of Association for Multivariate Binary Data, R01 CA101901-01, National Cancer Institute, NIH (Principal Investigator: Bahjat F. Qaqish).
- 2005-2008 Evaluating the Association's Training Program for Director Care Staff. (Principal Investigator: Sheryl Zimmerman).
- 2004-2008 Intra-oral drug delivery systems for HIV/AIDS patients, 5-R01-DE015267-03, National Institute of Dental & Cranofacial Research (Principal Investigator: Sid Kalachandra).
- 2003-2008 NIA Academic Leadership Career Award-Preparing the Next Generation of Researchers in Aging (Principal Investigator: Philip Sloane).
- 1998-2007 Multicenter Trial of Third Molar Patient Management, Amer Assoc/Oral & Maxillofacial Surgeons (Principal Investigator: C. Phillips).
- 2003-2007 Evaluation of the Enforcement of Underage Drinking Laws Program: Community Trial. Biostatistical consultant and **Principal Investigator** of subcontract to Wake Forest University.
- 2001-2006 Sensory Re-Training Following Orthognatic Surgery, R01 DE13967-02, National Institute of Dental & Cranofacial Research, (Principal Investigator: C. Phillips).
- 2001-2006 High Intensity Light Therapy in Alzheimer's Disease, R01 AT00212-02, National Institute of Complementary and Alternative Medicine (Principal Investigator: P. Sloane).
- 2004-2005 Methods for Marginal Association Models for Correlated Binary Outcomes. Six month grant award for fixed term faculty to do statistical methodology at 25% salary support from Department of Biostatistics, University of North Carolina. **Principal Investigator**.

- 1998-2004 Geographic Effects on Rural Health Care Utilization, 5-R01-HS09624-04, Agency/Health Care Policy & Res. (Principal Investigator: W. Gesler).
- 1999-2004 Comprehensive Center for Inflammatory Disorders (CCID), P60-DE-13079-01, National Institute of Dental & Cranofacial Research (Principal Investiagor: P. Flood).
- 2000-2004 Dementia Care in Assisted Living & Nursing Homes, Alzheimer's Association Grants Operations (Principal Investigator: Zimmerman).
- 2002-2003 Clinical Prediction Models for Fatigue and Depression among HIV-positive Men. 9P30 AI0504101-04, National Institute of Health. Pilot grant award from Univ. of North Carolina Center for Aids Research. **Principal Investigator.**
- 1999-2002 Green Tobacco Sickness, OHO3648, Subcontract from Wake Forest University. **Principal investigator** of subcontract.
- 1998 Statistical Approaches to Cancer Control Trials with Categorical Outcomes in the Presence of Nonrandom Drop-outs. American Cancer Society. Pilot grant award from Wake Forest University School of Medicine. **Principal Investigator.**

#### PROFESSIONAL SERVICE

##### University of North Carolina (unless otherwise noted)

- 2022 Chair, CSCC center review committee, Department of Biostatistics
- 2021-present Serve on Internal Advisory Board for the Center for AIDS Research Biostatistics Core, UNC-CH
- 2021-present Serve on Doctoral Examinations Applications Committee, Department of Biostatistics
- 2011-present Chair, Pranab K. Sen Distinguished Visiting Professorship Committee, Dept of Biostatistics, *this fund has supported 8 international visitors up to 5 months visit*
- 2020 Served on search committee for Biostatistics Program Manager position, North Carolina Translational and Clinical Sciences Institute (NC TraCS).
- 2018-2019 Team Science Promotions and Tenure Committee, NC TraCS.
- 2018 Member, faculty search committee, School of Dentistry (Pediatric Dentistry)
- 2017-2018 Collaborative Studies Coordinating Center (CSCC) faculty search committee, Department of Biostatistics, Gillings School of Global Public Health

- 2016-2017 Co-Chair, CSCC center review committee, Department of Biostatistics
- 2016-2017 Member, research-track faculty search committee, School of Dentistry
- 2015-2016 Member, search committee for tenure-track faculty position in Big Data
- 2013-2014 Co-Chair, search committee for joint Department of Biostatistics-School of Nursing research faculty position
- 2010-2011 Served on Diversity and Inclusion Task Force (DITF) of the Gillings School of Global Public Health; co-leader of its Subcommittee on Recruitment and Retention
- 2009-2011 Served on Space Committee of the Gillings School of Global Public Health
- 2008-2011 Chair of Department of Biostatistics Space Committee
- 2009, 2010 Mentor of an underrepresented minority student in Biostatistics Summer Undergraduate Research and Education (BSURE) program
- 2009-2010 Chair of Gary G. Koch Festschrift Subcommittee, member of 60<sup>th</sup> Departmental Anniversary Committee, University of North Carolina
- 2007 Served on School of Public Health Student Poster Competition Committee
- 2006-2009 Served on PhD Part II & DrPH Subcommittee of the Doctoral Examinations Committee, Department of Biostatistics, University of North Carolina
- 2003-2007 Served on Biostatistics Masters Examination Committee
- 2002-2006 K-Award Advisory Committee Member for Dr. Michelle Mayer, Department of Health Policy and Administration, and Cecil B. Sheps Center
- 2005 Served on search committee for a Chair of the Department of Biostatistics
- 2004 Served on search committee for a Department of Biostatistics Faculty Member for the Lineberger Cancer Center
- 2001 Served as discussion facilitator for University-wide Summer Reading Program for incoming freshman and transfer students.
- 2000-2001 Served on Biostatistics Graduate Studies Committee
- 1995-1999 Primary Faculty Statistician in Health Services Research Center, Department of Public Health Sciences, Wake Forest University School of Medicine

National/International

- 2022-present    Serve on Data Safety and Monitoring Board for a NIA-funded study, “A Pragmatic Trial of EHR Nudges for Generalist Plus Specialist Palliative Care for Seriously Ill Inpatients” (PI: Courtright, MD, MSHP)
- 2021 (Nov)      Session Chair, Conference on “Current Developments in Cluster Randomised Trials and Stepped Wedge Designs”, Queen Mary University of London.
- 2021 (Oct)      Reviewer. BeNeFIT: Belgium-Netherlands Funding of International Trials.
- 2021 (July)     Served as examiner of Ms. Mi Du’s thesis for the Doctor of Philosophy titled “Clinical prediction modelling in oral health: A review of study quality and empirical examples of model development”, School of Public Health, The University of Adelaide, Australia.
- 2019-2022      Patient Centered Outcomes Research Institute (PCORI) Merit Reviewer of Funding Award Proposals
- 2020-2023      Serve on Data Safety and Monitoring Board for a PCORI-funded study, which is a stepped wedge cluster-randomized trial, “HearCARE: Hearing for Communication and Resident Engagement” (PI: Catherine Palmer, PhD)
- 2019-2020      Serve on Data Safety and Monitoring Board for an NIDCR-funded study “Randomized Efficacy Trial of MySmileBuddy, a Family-centered Behavioral Intervention to Reduce Early Childhood Caries study” (PIs: Kunzel, Carol)
- 2018-2022      Serve on Data Safety and Monitoring Board for an NIDCR-funded study “Phase III RCT of the Effectiveness of Silver Diamine Fluoride in Arresting Cavitated Caries Lesions” (PI: Margherita Fontana, DDS, PhD)
- 2017 (Nov)      Reviewer NIH/NIDCR ZDE1 LC (10), Clinical Trials and Studies Special Emphasis Panel
- 2015 (March)   Reviewer NIH/NIDCR ZDE1 (13) “Clinical Trial Planning and Implementation”.
- 2014 (June)     Reviewer NIH/NIDCR ZDE1-SM13, several PARs related to dental research.
- 2014 (March)   Provided two weeks of gratis biostatistical consultation (receiving only travel and accommodation expenses) as a visiting scientist to the Australian Research Centre on Population Oral Health, University of Adelaide, South Australia.
- 2013              External reviewer for selection of LISA (Laboratory for Inter-disciplinary Statistical Analysis) Fellow in the Department of Statistics, Virginia Tech, which



seeks to train a statistician from a developing country for one year.

- 2012-2014      Serve on Data Safety and Monitoring Board for a small foundation-sponsored study on whether SNRI venlafaxine can improve recovery in patients with initial pain after minor motor vehicle collision. Principal Investigator: Sam McLean, M.D., M.P.H., Department of Emergency Medicine, University of North Carolina.
- 2011-2014      Serve on Data Safety and Monitoring Board for NIH-funded study "An RCT of CBT-Telephone for Late-Life GAD." Principal Investigator: Gretchen Brenes, Ph.D., Wake Forest University School of Medicine.
- 2011            Organized an invited paper session "Session in Honor of Professor Gary Kcch on his Festschrift" for the Joint Statistical Meetings, August, 2011, Miami.
- 2010-2016      Reviewed faculty promotions providing external letters of evaluation for seven universities in the United States
- 2009            Served as member of NIH/NIDCR Scientific Review Group 2009/05 ZDE1 MH (14) that convened on 2/11/2009 to review grant applications for a RFA DE-08-009 R21s entitled "Developing Complex Models of Oral Health Behavior"
- 2008            Served as member of NIH/NIDCR Scientific Review Group 2008/08 ZDE1 JH 35 that convened on 5/2/2008 to review grant applications for a RFA DE-08-009 R21s entitled "Developing Complex Models of Oral Health Behavior"
- 2007-2009      International Biometrics Society, ENAR Regional Advisory Board
- 2007            Served as member of NIH Scientific Review Group 2007/10 ZDE1 YL (53) that convened on 5/24/2007 to review grant applications for a PAR entitled "NIDCR Small Research Grants for Data Analysis and Statistical Methodology (R03)"
- 2006            Served as member of NIH/NIDCR Special Emphasis Panel/Scientific Review Group 2007/01 ZDE1 PZ (12) that convened on 11/09/2006 to review grant applications for several PARs related to dental research.
- 2006            ENAR 2007 Spring Meeting (Atlanta) Program Committee, Representative of the Biometrics Section of the American Statistical Association
- 2006            Organized an invited paper session "Model Selection and Assessment in GEE" for the Biometric Society ENAR Conference, March, 2007, Atlanta.
- 2005            Chair, Section on Statistics in Epidemiology of the American Statistical Association (2004 Chair-Elect, 2006 Past-Chair)
- 2005            Member of Nathan Mantel Award Selection Committee of the Section on Statistics in Epidemiology of the American Statistical Association

- 2005 Reviewer of Grant Proposal for the Natural Sciences and Engineering Research Council of Canada.
- 2004-06 Young Investigator Award Committee, Section on Statistics in Epidemiology of the American Statistical Association
- 2004 Organized an invited paper session on the theme “Statistics in Epidemiology” for the International Conference on Statistics in Health Sciences at Nantes University, Nantes, France, June 23-25, 2004.
- 2004 Serve on Data Safety and Monitoring Board for clinical trial, “Take Control of Your Blood Pressure”. Principal Investigator: Hayden Bosworth, Ph.D., Duke University.
- 2003-2007 Serve on Data Monitoring Committees for two clinical trials that test a pharmacologic intervention for the prevention of HIV disease in Africa, Family Health International.
- 2002-2004 Serve on Steering Committee for Dementia Care in Assisted Living and Nursing Homes, a project funded by the Alzheimer’s Association (PIs: Sheryl Zimmerman, Ph.D., Philip Sloane, M.D., J. Kevin Eckert, Ph.D.)
- 2002 Served as reviewer for the Center for Scientific Review Special Emphasis Panel, Clinical Cardiovascular Sciences (CCVS) study section, NIH.
- 2001 Local Arrangements Committee, Biometrics Society ENAR Conference, Charlotte
- 2000 Reviewer on Special Emphasis Panel for STD prevention, Center for Disease Control and Prevention, Atlanta

#### JOURNALS REFEREED:

##### Biostatistics, Statistics, and Epidemiology Journals:

American Journal of Epidemiology, Annals of Epidemiology, Applied Statistics (JRSS-C), Biometrical Journal, Biometrics, Computer Methods and Programs in Biomedicine, Computational Statistics and Data Analysis, Health Services Research & Outcomes Methodology, Journal of the American Statistical Association, Journal of Applied Statistics, Journal of Biopharmaceutical Statistics, Journal of Clinical Epidemiology, Journal of Computational and Graphical Statistics, Journal of Statistical Computation and Simulation, Journal of Epidemiology and Community Health, JRSS-A, Paediatric and Perinatal Epidemiology, Sankhya Series B, Statistics and Probability Letters, Statistics in Medicine, Statistical Methodology, Statistical Methods in Medical Research, Statistical Modeling.

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Dentistry, Gerontology, Medicine, Public Health Journals

Administration and Policy in Mental Health Research, BMC Oral Health, BMC Research Notes, BMJ Open, Caries Research, Community Dentistry and Oral Epidemiology, Drug and Alcohol Dependence, Drug Information Journal, Encyclopedia of Clinical Trials, Environmental Health Perspectives, European Journal of Oral Sciences, Journal of Dental Research-Clinical & Translational Research, Journal of Post-Acute and Long-Term Care Medicine, Journal of Clinical Endocrinology, Journal of Clinical Periodontology, Journal of Dental, Oral and Craniofacial Epidemiology, Journal of the Operational Research Society, Journal of Paediatric and Perinatal Epidemiology, Journal of Prosthetic Dentistry, Oral Diseases, Journal of Periodontal Research, Oral Diseases, PLOS Computational Biology.