

July 11, 2016

## **Paul S. Albert, PhD**

### **Current Position**

Chief and Senior Investigator  
Biostatistics and Bioinformatics Branch  
Division of Epidemiology, Statistics, and Prevention  
Eunice Kennedy Shriver National Institute of  
Child Health and Human Development National  
Institutes of Health

### **Address**

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Bethesda, MD 20892-7510  
albertp@mail.nih.gov

### **Education**

1988 Ph.D., Biostatistics, The Johns Hopkins University 1981 A.B. Mathematics  
and Psychobiology, Oberlin College

### **NIH Experience**

Branch Chief and Senior Investigator, Biostatistics and Bioinformatics Branch,  
National Institute of Child Health and Human Development, July 2009-Present.

Mathematical Statistician, Biometric Research Branch, Division of Cancer  
Treatment and Diagnosis, National Cancer Institute. March 1999- July 2009.

Mathematical Statistician, Office of Biostatistics Research, National Heart  
Lung and Blood Institute, February 1995-March 1999

Staff Fellow and Senior Staff Fellow, Biometry and Field Studies Branch,  
National Institute of Neurological Disorders and Stroke, July 1988-February  
1995

### **Teaching Experience**

Introduction to Biostatistics (two quarter sequence), Department of  
Biostatistics, The Johns Hopkins University, 1994-1995.

Introduction to Hypothesis Testing and Sample Size Estimation, Core Course  
in Clinical Research, NIH Clinical Center, 1995-1999.

## **Scientific Review Service**

### **Ad hoc Journal Reviewer**

*Biostatistics and Statistics:* Annals of Statistics, Annals of Applied Statistics, The Journal of the American Statistical Association (JASA): Theory and Methods and Application/Case-studies Sections, Journal of the Royal Statistical Society-Series B, Journal of the Royal Statistical Society-Series C (Applied Statistics), Biometrics, Biometrika, The Biometrical Journal, Biostatistics, Statistics in Medicine, The International Journal of Biostatistics, The American Statistician, Journal of Statistical Planning and Inference, Statistica Neerlandica, Communications in Statistics, Metron, Lifetime Data Analysis, Computational Statistics and Data Analysis, Journal of Agriculture, Biological, and Environmental Statistics, Statistics in Biosciences Journal of Statistical Computation and Simulation, Psychometrika, Statistics and Probability Letters, Statistics, Scandinavian Journal of Statistics.

*Clinical, Epidemiology, and Basic Science:* Science, BMC Medical Informatics and Decision Making, Health Services and Outcomes Research Methodology, Controlled Clinical Trials, American Journal of Epidemiology, Epidemiology, International Journal of Epidemiology, Psychometrika, Journal of Theoretical Biology, Annals of Neurology, Neurology, Epilepsia, Brain, and CNS Drugs, Cancer Epidemiology, Biomarkers, and Prevention, Journal of the National Cancer Institute, The Cancer Journal, Journal of Clinical Oncology, Paediatric and Perinatal Epidemiology, Journal of Circadian Rhythms, Proceedings of the National Academy of the Sciences, Science Translation, Accident Analysis and Prevention.

### **External Grant Review**

International

Reviewer for Israel Science Foundation, March 1996

Reviewer for National Science Foundation, February 1998

Reviewer for National Sciences and Engineering Research Council of Canada, December 2005

Review for National Sciences and Engineering Research Council of Canada, December 2008

Review for National Sciences and Engineering Research Council of Canada, December 2015

Review for FONDECYT Regular 2015 grant competition: Chilean National Science and Technology Commission, 2016.

## **Editorial Boards**

Editorial Board, *Statistics in Medicine*, July 1994-August 2005

Associate Editor, *Statistics in Medicine*, September 2005-Present

Associate Editor, *Biometrics*, July 2010-December 2012; December 2012-December 2014; December 2014-December 2016.

Guest Editor, *Statistics in Medicine*, Innovative Designs and Statistical Methods for Biomarkers in Epidemiology, 2012 Editorial Board, *Fertility and Sterility*, May 2013 Associate Editor, *Statistics in the Biosciences*.

### **Adjunct and Visiting Positions**

Adjunct Assistant Professor, Department of Biostatistics, Johns Hopkins University, September 1994-June 1996.

Department of Statistics at the University of Munich, May 1998

Adjunct Professor of Mathematics and Statistics, University of Maryland, Baltimore County.

### **Professional Service**

#### **NIH and FDA Committees**

DSMB member for FDA sponsored trial: The effect of Albendazole therapy on epilepsy due to cysticercosis. January 1996-January 2003

Protocol Review and Monitoring Committee (PRMC) for the Center for Clinical Research (CCR), February 1999-September 2008

Member of the Intramural Pulmonary DSMB, NHLBI. June 2000-December 2006

DSMB member for NIAID sponsored trial: A Phase III double-blind placebo controlled trial of long term therapy of herpes simplex encephalitis (HSE): an evaluation of valacyclovir. January 2003-May 2009.

Member of the NCI/Center for Cancer Research Data Safety and Monitoring Board, 2009-present.

Chair of Search Committee for Epidemiology Branch Chief, Division of Epidemiology, Statistics, and Prevention Research, NICHD 2009-2010.

Member of the Advisory and Safety Monitoring Board for the Nulliparous Pregnancy Study: Monitoring our Mothers-to-be Study (NuMOM), sponsored by NICHD, 2010.

NIH designated NIH scientist representative at the NCI-DCEG Biostatistics Branch site visit, May 4, 2010.

Member of Search Committee for Senior Biostatistician at NINDS, 2010-2011.

Search Committee Member Tenure-track investigator Epidemiology Branch, NICHD, 2012.

Member of the NIH Tenure Committee's Epidemiology and Biometry Review Panel, 2011-

Chair of Search Committee for Health Behavior Chief and Senior Investigator, Division of Intramural Population Health Research, NICHD, 2013-2014.

Chair of Tenure-track mentoring committee for Dr. Katherine Grantz M.D., Epidemiology Branch, NICHD.

Member of the Trans-NIH Working Group for Methods and Measurement Science in Health Disparities, June 2015-present.

**Service to the Statistical Associations and Scientific Societies**

Member of the Regional Advisory Board of the Eastern North American Region (ENAR) of the International Biostatistics Society (IBS), January 1995-January 1998

ENAR Van Ryzin Student Paper Award Committee, November 1999

Co-program Chair for the ENAR spring meetings in Crystal City, VA, March 2002

Member of the American Statistical Association (ASA) Committee on Award for the Outstanding Statistical Application, January 1998-January 2002

Chair of the ASA Committee on Award for the Outstanding Statistical Application, January 2002-January 2005

Member of the 2010 ENAR Program Committee. July 2009.

Elected Program Chair for the Statistics in Epidemiology Section of ASA, 2011. August 2009-August 2011.

Member of the 2011 ENAR Program Committee.

Member of the ASA Nathan Mantel Award Committee, 2011.

Member of the ASA Young Investigator Award Committee, 2011.

Member of the ENAR nomination Committee, 2011-2012.

Member of the ASA Committee on Selection of the Karl E. Peace Award for outstanding Statistical Contributions for the Betterment of Society Committee. January 2012-December 2012, reappointed for January 2013-December 2015.

Chair of the ASA Committee on Selection of the Karl E. Peace Award, January 2016-December 2018.

Member of the 2014 ENAR Program Committee.

Elected member, ENAR Regional Committee (RECOM), 2014-2017.

Invited reviewer for *The National Academies of Sciences* Panel on Research Methodologies and Statistical Approaches to Understanding Driver Fatigue Factors in Motor Carrier Safety and Driver Health, December 2015.

**Review for Tenure and Promotion**

Department of Biostatistics, Emory University, 1998.

Department of Biostatistics, Columbia University, 1999.

Department of Mathematics and Statistics, University of Waterloo, 2002.

Department of Biostatistics, Columbia University, 2002.

Department of Biostatistics, University of Medicine and Dentistry of New Jersey, 2006.

Fred Hutchinson Cancer Center, 2007.

Department of Quantitative Health Sciences, Cleveland Clinic Foundation, 2008.

Department of Health Administration and Policy, George Mason University, 2009.

Faculty of Medicine, McGill University, 2010.

Department of Epidemiology and Biostatistics, University of Arizona, 2010.

Department of Biostatistics, Vanderbilt University School of Medicine, 2010.

Department of Statistics, Virginia Tech, 2012.

Department of Biostatistics, University of Michigan, 2012.

Department of Biostatistics, University of Minnesota, 2012.

Department of Statistics, George Mason University, 2012.

Department of Biostatistics, Emory University, 2013.

Division of Biostatistics, Johns Hopkins Medical School, 2013.

Department of Statistics, George Washington University, 2013.

Department of Biostatistics, Columbia University, 2013.

Department of Biostatistics, University of Pittsburgh, 2014.

Division of Biostatistics, University of Pennsylvania, 2014.

Academy of Mathematics and System Science, Chinese Academy of Sciences, 2015.

Division of Biostatistics, University of Pennsylvania, 2015.

**Organizing Invited Sessions at International/National Meetings**

Comparative approaches for analyzing a longitudinal opiate dependence trial with informative missingness and dropout, ENAR spring meetings in Atlanta, GA, August 1999

Surrogate endpoints in clinical trials, ENAR spring meetings in Crystal City, VA, March 2002

Recent advances in estimating diagnostic error without a gold standard, ENAR spring meetings in Crystal City, VA, March 2002

Recent advances in tumor growth modeling, ENAR spring meetings in Pittsburgh, PA, March 2004

Recent advances in two-part models, WNAR spring meetings in Fairbanks, AK, June 2005

Recent advances in analyzing biomarker data with below the level of detection. Organizer of session at ENAR, Crystal City, VA, March 2008.

Recent advances in epidemiologic methods for repeated measures. Organized spotlight session for the Epidemiology Congress, Montreal, June 2011.

Innovative approaches for analyzing longitudinal biomarkers. ENAR spring meetings in Washington DC, March 2011.

Innovative approaches for assessing risk in fetal growth studies. ENAR, Orlando, 2013.

Recent advances in statistical methods in diagnostic testing. IBS, Florence Italy, 2014.

### **Invited Panel Member**

International workshop on outcome assessment in multiple sclerosis clinical trials. National Multiple Sclerosis Society, February 1994.

International task force on the use of magnetic resonance imaging as an outcome measure in multiple sclerosis clinical trials. National Multiple Sclerosis Society. July 1994-May 1995.

International workshop on the role of magnetic resonance imaging in understanding and managing multiple sclerosis. Oxford, England, January 1997.

International workshop on the future clinical trials issues in multiple sclerosis. Washington, D.C., December 2004.

IMS New Researcher's Conference, Invited talk and panel on Biostatistics at the NIH, Bethesda, Maryland. July 2009.

### **Private Consulting**

Statistical Consultant for Shering AG, August 1996-August 1997

Statistical Consultant for Berlix, January 1998

### **Academic and Professional Awards**

United States Public Health Services Fellowship, The Johns Hopkins University, 1982-1987

NIH Merit Award for the development of innovative statistical methodology applied to clinical neurology, 1993

Elected Fellow of the American Statistical Association, 2005

NIH Merit Award for organization of an interdisciplinary team for methodological development in the design and analysis of biomarker studies, 2010.

NICHD Director's Award for innovative statistical model development.

### **Mentoring/Co-Mentoring**

Craig Borkowf, NIH Intramural Research Training Award Fellow (IRTA), 1999-2002

Laura Lee Johnson, Research Fellow, 2003-2005

Bo Zhang, post-doctoral fellow, 2009-2011.

John Jackson, Ph.D. Student at GW University Statistics Department, 2010-2012. Dissertation title: Joint Modeling of Longitudinal Count and Binary Data Using Latent Variable Approaches.

Yaakov Malinovsky, post-doctoral fellow, 2009-2011.

Leanne Sanders. Summer Student from Ohio State University Department of Statistics. Summer 2010.

Katie Cheon, post-doctoral fellow 2010-2012.

Michel Danaher, pre-doctoral fellow, 2010-

Semhar Ogbagaber, summer student from University of Pittsburgh, Department of Biostatistics, Summer 2011, 2012.

Van Tran, summer student from University of Rochester, Department of Biostatistics, Summer 2013.

Jared Foster, post-doctoral fellow 2013-2015

Ashok Chauasia, post-doctoral fellow 2013-2015

Kara Fulton, post-bac fellow 2012-2013

Alicia Johns, post-bac fellow 2013-2014

Rachel Hill, post-bac fellow 2014-2015

Olive Buhule, post-doctoral fellow 2014

Ana Marie Ortega-Villa, post-doctoral fellow 2015

Angela Vales, summer student from San Diego

State University 2014

### **Ph.D. Thesis Committees/Outside Examiner**

Susan Warren, M.D., "Evaluating the Value of Adding Diagnostic Symptoms Using Posterior Probability and Sensitivity/Specificity Procedures" Department of Epidemiology and Biostatistics, George Washington University, 2010.

Mohammed R. Chowdhury, "Nonparametric Smoothing Estimation of Conditional Distribution Functions with Longitudinal Data and Time-Varying Parametric Models" Department of Statistics, George Washington University, 2013.

Fanni Zhang, "Concordant Integrative Analysis of Multiple Gene Expression Data Sets" Department of Statistics, George Washington University, 2014.

Leandro Garcia Barrado, "On the estimation and validation of biomarker indices" Department of Statistics, University of Hasselt, Belgium, 2015.

Xian Sun, "Diagnostic accuracy of biomarkers with a continuous gold standard" Department of Statistics, The George Washington University, 2016.

Caroline Munindi Mulatya, "Novel methods for analyzing longitudinal data with measurement error in the time variable". Department of Epidemiology and Biostatistics, University of South Carolina, 2016.

### **Invited Talks and Seminars**

1. Design and analysis of a panel study under an alternating Poisson Process assumption. NIH, February 1988.
2. Design of a panel study under a Markov assumption. Department of Statistics. Carnegie Mellon University. February 1988.
3. Design of a panel study under a Markov assumption. Biostatistics section. University of Indiana Medical School. February 1988.
4. Design and analysis of a panel study under an alternating Poisson Process assumption. Columbia University, February 1988.
5. Design of a panel study under an alternating Poisson process assumption. Washington Statistical Society Talk, February 1989.

6. A two state Markov mixture model for a time series of epileptic seizure counts. Department of Biostatistics, Johns Hopkins University, November 1990.
7. A two state Markov mixture model for a time series of epileptic seizure counts. Biostatistics Section, Dartmouth Medical School, July 1991.
8. A Markov model for ordinal repeated measures data from a relapsing remitting disease. ENAR meetings, Cincinnati, March 1992.
9. Time series for modeling counts from a relapsing-remitting disease: applications to modeling disease activity in multiple sclerosis. National Institutes of Health conference on current topics in biostatistics, Bethesda Maryland, January 1993.
10. Time series for counts from a relapsing-remitting disease. Department of Biostatistics, Medical College of Virginia, January 1993.
11. Time series for counts from a relapsing-remitting disease. Center for Epidemiology and Biostatistics, University of Pennsylvania, February 1993.
12. Modeling counts from a relapsing-remitting disease. Department of Biostatistics, University of Washington, January 1994.
13. The use of serial MRI as an outcome measure in phase II trials of early relapsing-remitting multiple sclerosis. National Multiple Sclerosis Society international workshop on "outcomes assessment in MS clinical trials", Charleston, February 1994.
14. Modeling counts from a relapsing-remitting disease. Department of Biostatistics. Cleveland Clinic Foundation, March 1994.
15. Modeling sequences of counts from a relapsing-remitting disease. Department of Mathematics, University of Maryland, April 1995
16. Repeated sequences of counts from a relapsing-remitting disease: a comparison of approaches. Department of Biostatistics, Johns Hopkins University, May 1995.
17. Recent developments in the analysis of longitudinal data. Invited presentation in a session on recent advances in statistical methodology for clinical trials with Gordan Lan and Joel Greenhouse at the Society of Clinical Trials meetings, Pittsburgh, May 1996.
18. Modeling monotonic ordinal longitudinal data with diagnostic error. Department of Biostatistics, Medical College of Virginia, October 1996.

19. Modeling repeated measures with monotonic ordinal response and misclassification error, with applications to studying maturation. Division of Cancer Prevention and Control, National Cancer Institute Seminar Series, January 1997.
20. Generalized estimating equations approaches to spatially correlated binary and count data. WNAR meetings, Park City Utah, July 1997.
21. Statistical modeling of disease processes. NHLBI special emphasis panel on "New approaches for complex biological problems: inflammation and risk assessment", September 1997.
22. Modeling monotonic ordinal longitudinal data with misclassification error, with applications to maturation. Department of Biostatistics, Johns Hopkins University, March 1998.
23. Generalized estimating equations for spatially correlated data. ENAR meetings, Pittsburgh, April 1998.
24. Generalized estimating equations approaches for spatially correlated discrete data. Department of Statistics, University of Munich, May 1998.
25. Modeling monotonic ordinal repeated data with misclassification with applications to maturation. Department of Statistics, University of Munich, May 1998.
26. A transitional model for longitudinal binary data subject to non-ignorable missing data. ENAR meetings, Atlanta, March 1999.
27. Longitudinal Studies with Missing Data. Spring Symposium for the Delaware Chapter of the American Statistical Association: Design and Analysis of Life Science Studies: Of Mice and Men, University of Delaware, April 1999.
28. A transitional model for longitudinal binary data with non-ignorable missingness. International Chinese Statistics Association: Applied Statistics Symposium, Georgetown University, June 1999.
29. A generalized estimating equations approach for modeling random length vector data. ASA meetings, Baltimore August 1999.
30. A transitional model for longitudinal binary data with non-ignorable missingness. Department of Biostatistics. Johns Hopkins University. November 1999.
31. Latent modeling approaches for assessing diagnostic error in p53 immunohistochemical assays in bladder tumors without a gold

- standard. Division of Cancer Prevention and Control, National Cancer Institute Seminar Series, April 2000.
32. A transitional model for longitudinal binary data with non-ignorable missingness. Department of Biostatistics. University of Penn. February 2000.
  33. Latent modeling approaches for assessing diagnostic error in p53 immunohistochemical assays in bladder tumors without a gold standard. Department of Statistics, North Carolina State University, October 2000.
  34. Latent modeling approaches for assessing diagnostic error in p53 immunohistochemical assays in bladder tumors without a gold standard. Department of Mathematics, University of Maryland at College Park, November 2000.
  35. Latent modeling approaches for assessing diagnostic error in p53 immunohistochemical assays in bladder tumors without a gold standard. Department of Mathematics and Statistics, University of Maryland at Baltimore County, April 2001.
  36. The analysis of binary longitudinal data with missingness: applications to an opiate addiction trial. Clinical Biostatistics Group, Wyeth Ayerst Reach, King of Prussia, Penn. May 2001.
  37. Latent class modeling approaches for assessing diagnostic error in p53 immunohistochemical assays in bladder tumors without a gold standard. International Chinese Statistical Association, Chicago, June 2001.
  38. The analysis of longitudinal data with missingness from a chronic disease. International conference sponsored by the German Research Council DFG on "Recent developments and applications in the statistical analysis of discrete structures", Munich, October 2001.
  39. Statistical modeling in MS data over time. Sylvia Lawry Centre for Multiple Sclerosis Research, Munich, October, 2001.
  40. A latent autoregressive model for longitudinal binary data subject to non-ignorable missingness. ASA meetings, New York, August 2002.
  41. A latent autoregressive model for longitudinal binary data subject to non-ignorable missingness. Division of Biostatistics, Yale University, October 2002.

42. A cautionary note on estimating diagnostic error without a gold standard. FDA/Industry Statistics Conference, Bethesda, September 2003.
43. Estimating diagnostic error without a gold standard. Department of Biostatistics, Johns Hopkins University, November 2003.
44. Modeling tumor growth with random onset. ENAR, Pittsburgh, April 2004.
45. Statistical issues in the use of biomarkers in clinical trials. Future Clinical Trial Issues in Multiple Sclerosis. Washington DC, December 2004.
46. Modeling longitudinal semi-continuous data with serial correlation with an application to an acupuncture clinical trial. WNAR, Fairbanks, June 2005.
47. Estimating diagnostic accuracy from designs with and without gold standard evaluation. Biostatistics Branch, Division of Biologics, FDA, October, 2005.
48. Estimating diagnostic accuracy from designs with and without gold standard evaluation. Biostatistics Branch, Division of Epidemiology and Genetics, National Cancer Institute, November 2005.
49. The analysis of binary longitudinal data with multi-state missing data. Invited talk at an international workshop titled "Current Issues in the Analysis of Incomplete Longitudinal Data", Fields Institute of Mathematical Science in Toronto, Canada. October 2005.
50. Estimating diagnostic accuracy from designs with and without gold standard evaluation. Department of Statistics, Ohio State University, November 2005.
51. Estimating diagnostic accuracy from designs with and without gold standard evaluation. Department of Biostatistics, Medical College of Virginia. December 2005.
52. Estimating diagnostic accuracy from designs with and without gold standard evaluation. Center for Epidemiology and Biostatistics, Children's Hospital in Cincinnati. January 2006.
53. Estimating diagnostic accuracy from designs with and without gold standard evaluation. Department of Biostatistics and Epidemiology, Sloan Kettering Cancer Center, April 2006.

54. Modeling longitudinal data subject to lower detection limits: two case studies. NICHD panel on analyzing data subject to detection limits, measurement error, and missing data. June 2007.
55. Estimating diagnostic accuracy from an imperfect reference standard. FDA/Industry Statistics Conference. Crystal City, VA, September 2007.
56. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. Division of Cancer Epidemiology and Genetics seminar, September 2007.
57. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. Department of Biostatistics, University of Maryland Medical Center, October 2007.
58. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. Department of Statistics, George Mason University, November 2007.
59. Estimating diagnostic accuracy from designs with and without reference standard evaluation. ENAR, Crystal City, March 2008.
60. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. Division of Epidemiology, Statistics, and Prevention Research, NICHD, January 2009.
61. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. George Washington University Biostatistics, June 2009.
62. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. Office of Biostatistics Research, NHLBI, September 2009.
63. Biostatistics at NIH: Opportunities at NICHD and other institutes. Department of Biostatistics, Johns Hopkins University, November, 2009.
64. Joint modeling of multivariate longitudinal measurements and time-to-event data. ENAR meeting, New Orleans, LA 2010.
65. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. Statistics Department at George Washington University, April 2010.
66. Approaches to Modeling Menstrual Cycle Function. Invited Presentation for Society for Perinatal Epidemiology (SPER) student analytical workshop, Seattle, June, 2010.

67. Modeling batched Gaussian longitudinal data subject to informative dropout. JSM meeting, Vancouver August 2010.
68. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. The Center for Statistics, University of Hasselt, October, 2010.
69. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. ENAR Miami, 2011.
70. A linear mixed model for predicting a binary event under random effects misspecification. Mathematics Department, Statistics Group, University of Maryland College Park, November, 2010.
71. The Biostatistics and Bioinformatics Branch at NICHD. Mathematics Department, Statistics Group, University of Maryland College Park, November, 2010.
72. A linear mixed model for predicting a binary event under random effects misspecification. Department of Biostatistics. Virginia Commonwealth University, December, 2010.
73. A linear mixed model for predicting a binary event under random effects misspecification. Workshop to demonstrate new joint program in biostatistics at the University of Maryland at Baltimore County (UMBC). Keynote Address, March, 2011.
74. A linear mixed model for predicting a binary event under random effects misspecification. Department of Biostatistics, University of Buffalo, April 2011.
75. A linear mixed model for predicting a binary event under random effects misspecification. Biostatistics Branch, National Institute of Environmental Health Sciences, May 2011.
76. Estimating diagnostic accuracy with no gold standard, partial gold standard, or with an imperfect gold standard test. Society for Clinical Biostatistics, Ottawa Canada, August 2011.
77. A linear mixed model for predicting a binary event under random effects misspecification. Department of Statistics, Virginia Polytech Institute, November 2011.
78. Estimation and design for logistic regression under an imperfect population identifier. ENAR, Washington DC, 2012.
79. A linear mixed model for predicting a binary event under random effects misspecification. Department of Biostatistics, University of Penn. April 2012.

80. A linear mixed model for predicting a binary event under random effects misspecification. Annual Conference on Frontiers in Applied and Computational Mathematics (FACM '12), New Jersey Institute of Technology, May 2012.
81. Joint models for multivariate longitudinal measurements and a binary event: an application to a fetal growth study with longitudinal ultrasound measurements. An international workshop on the statistical analysis of multi-outcome data, Paris France, July 2012.
82. Innovative applications of shared random parameter models for analyzing longitudinal data with informative dropout. Special speaker at the International symposium in statistics (ISS) on longitudinal data analysis subject to outliers, measurement errors, and or missing values. St Johns Canada, July 2012.
83. Teenage Sleeping: Is there methodology to the madness- The NEXT Study. NICHD Exchange on Sleeping Research, November 2012.
84. The Prediction of Poor Birth Outcomes from Longitudinal Fetal Ultrasound Data The NIH Biostatistics Symposium: Statistics in Biomedical Research: Making and Translating New Discoveries, November 2012
85. Linear mixed models for reference curve estimation and prediction of poor pregnancy outcomes from longitudinal ultrasound data, ENAR, Orlando, March 2013.
86. Joint models for multivariate longitudinal measurements and a binary event: an application to a fetal growth study with longitudinal ultrasound measurements. Department of Biostatistics, University of Alabama School of Public Health, January 2013.
87. Joint models for multivariate longitudinal measurements and a binary event: an application to a fetal growth study with longitudinal ultrasound measurements. Department of Biostatistics, McGill University, February 2013.
88. Joint models for multivariate longitudinal measurements and a binary event: an application to a fetal growth study with longitudinal ultrasound measurements. Department of Biostatistics, University of Pittsburgh, April 2013.
89. The interface between statistical research and teenage driving: what statistics can teach us about how our kids drive. Department of Mathematics and Statistics, University of Maryland, Baltimore County, May 2013.

90. Efficient design of logistic regression with an imperfect population identifier: Applications to Epidemiologic and Clinical studies. International Chinese Statistics Association: Special invited session honoring Bob O'Neal. Bethesda, MD, June 2013.
91. Reference standard estimation and prediction in fetal growth studies. Society for Epidemiologic Research, Boston, June 2013.
92. The interface between statistical research and teenage driving: what statistics can teach us about how our kids drive. Department of Biostatistics, Yale University School of Public Health, December 2013.
93. Why do a postdoctoral fellowship in biostatistics? The NICHD experience. ENAR, Baltimore, March 2014.
94. Data sharing, reproducibility, and analytic strategies. AAAS Neuropolicy annual workshop, Washington DC, March 2014.
95. Statistics at the NIH. Panel discussion in the Department of Biostatistics, Johns Hopkins University, April 2014.
96. Longitudinal analyses of teenage driving: what statistics can teach us about how our kids drive and visa-versa. SLAM working group seminar, Department of Biostatistics, Johns Hopkins University, April 2014.
97. Analytic challenges in analyzing data from consecutive pregnancies. Sibling analyses workshop at Harvard School of Public Health. April 2014.
98. Joint models for longitudinal fetal growth and poor pregnancy outcomes. WNAR, Honolulu, June 2014.
99. Modeling longitudinal data with a random change point and no time zero: applications to inference and prediction of the labor curve. Second international workshop on the statistical analysis of multi-outcome data, Cambridge, July 2014.
100. Longitudinal analyses of teenage driving: what statistics can teach us about how our kids drive. S Fourth International Symposium on Naturalistic Driving Research, August 2014.
101. Longitudinal analyses of teenage driving: what statistics can teach us about how our kids drive. Presentation to panel studying Bus and Truck Safety. National Academy of Sciences (NAS) Panel, September 2014.

102. Novel Statistical methods for individualized prediction with applications to obstetrical practice. Division of Intramural Research (DIR) NICHD Science talk. October, 2014.
103. How what I learned from Hopkins Biostatistics under Chuck Rhode helped me through my Journey through NIH. Hopkins Biostatistics, April 2015.
104. The interface between statistical research and teenage driving: what statistics can teach us about how our kids drive. WNAR meetings, Boise Idaho, June 2015.
105. Panel on publishing for junior investigators: WNAR junior investigator lunch, WNAR meetings, Boise Idaho, June 2015.
106. Computation issues in the joint modeling of longitudinal and survival analysis: A Discussion. Joint Statistical Meetings, Seattle, August 2015.
107. Modeling longitudinal data with a random change point and no time zero: Application to predicting labor in consecutive pregnancies. Joint Statistical Meetings, Seattle, August, 2015.
108. Modeling longitudinal data with a random change point and no time zero: Applications to inference and prediction in single and consecutive pregnancies. Biostatistics Branch, NIAID, September, 2015.
109. Race/Ethnic-specific standards for fetal growth: A controversy. Trans NIH Working Group for Methods and Measurement Science in Health Disparities, Bethesda, October, 2015.
110. Methodology and results from the NICHD Singleton Fetal Growth Study. Bill and Melinda Gates Foundation: Grand Challenges Meeting, Beijing China. October, 2015.
111. Modeling Circadian Rhythms and the Sleep-Wake Cycle. NIH Intramural Population Research Workshop, Rockville MD, October, 2015.
112. Modeling longitudinal data with a random change point and no time zero: Applications to inference and prediction in single and consecutive pregnancies. Department of Biostatistics and Bioinformatics, Georgetown University, January 2016.
113. Statistical Considerations for Fetal Growth: predicting a poor pregnancy outcome from multivariate longitudinal ultrasound data. Division of Cancer Epidemiology and Genetics, National Cancer Institute, March 2016.

114. Predicting poor pregnancy outcomes from longitudinal fetal growth data. ENAR, Austin, Texas, March 2016.
115. Statistical Challenges in Fetal Growth: predicting a poor pregnancy outcome from multivariate longitudinal ultrasound data. George Washington University Biostatistics Center, April 2016.
116. Statistical Challenges in predicting poor pregnancy outcomes: The development of joint statistical models for prediction. Department of Statistics, Columbia, South Carolina, April, 2016.
117. An opportunity for novel statistical research in Obstetrics. Keynote Speaker, ISCA, Atlanta, Georgia, June 2016.
118. Prediction of preterm birth in consecutive pregnancy: novel methodology for analyzing multi-outcome longitudinal data The third international workshop on the statistical analysis of multi-outcome data, Beijing China, July 2016.
119. An opportunity for novel statistical research in Obstetrics. Keynote Speaker, International Conference in biostatistics Changchen, China, July 2016.
120. Invited talk in NHLBI/NIH Biostatistics Workshop: Recent Advances and Challenges in Statistical Methods: Innovative Methods for Complex Data Analysis and Study Designs. September 2016.
121. A latent variable approach for predicting gestational age. ISCA meeting in Shanghai, China, December 2016.

### **Contributed Talks**

1. Design of a panel study under an alternating Poisson process assumption. ENAR meetings, Lexington, March 1989.
2. A two state mixture model for analyzing time series count data. International meeting on statistics for repeated measurements, Bressanone, Italy, September 1989.
3. A two state Markov mixture model for a time series of epileptic seizure counts. ENAR meetings, Baltimore, April 1990.
4. Modeling seasonal changes in the relationship between multiple time series with an application in psychiatry. ENAR meetings, Houston, March 1991.
5. A generalized estimating equations approach for modeling random length binary vector data. ENAR meetings, Richmond, March 1996.

6. Modeling monotonic ordinal longitudinal data subject to misclassification. ENAR meetings, Memphis, March 1997.
7. Latent modeling approaches for assessing diagnostic error without a gold standard: with applications to P53 immunohistochemistry assays in bladder tumors. ENAR meetings, Chicago, March 2000.
8. A latent process model for longitudinal binary data subject to non-ignorable missingness. JSM meetings, Atlanta, August 2001.
9. A cautionary note on estimating diagnostic error without a gold standard. JSM meetings, San Francisco, August 2003.
10. Random effects modeling approaches for estimating ROC curves from repeated ordinal tests without a gold standard. Special contributed session on diagnostic accuracy. JSM meeting, Seattle, August 2006.
11. Modeling longitudinal biomarker data with multiple assays which have different known detection limits. JSM meetings, Salt Lake City, July 2007.
12. On estimating the relationship between longitudinal measurements and time-to-event data using a simple two-stage procedure. ENAR meetings, San Antonio, TX, March 2009.
13. Joint modeling of multivariate longitudinal measurements and time-to event data. JSM meeting, Washington DC August 2009.
14. Estimating recurrence and incidence of preterm birth subject to measurement error in gestational age: a hidden Markov modeling approach. ENAR, Miami March 2015.

## Refereed Manuscripts

1. Zeger, S.L., Liang, K.Y., and **Albert, P.S.** Models for longitudinal data: A generalized estimating equation approach. *Biometrics* **44**, 1049-1060, 1988.
2. **Albert, P.S.** and Brown, C.H. The design of a panel study under an alternating Poisson process assumption. *Biometrics* **47**, 921-932, 1991.
3. **Albert, P.S.** A two state Markov mixture model for a time series of epileptic seizure counts. *Biometrics* **47**, 1371-1381, 1991.
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