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CURRICULUM VITAE**Karen Bandeen-Roche****PERSONAL DATA**

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EDUCATION AND TRAINING

1990 Ph.D., Operations Research and Industrial Engineering
 Cornell University
 Ithaca, New York

1988 M.S., Operations Research
 Cornell University
 Ithaca, New York

1985 B.S., Mathematics
 Conferred with Academic Distinction and Honors
 Andrews University
 Berrien Springs, MI

PROFESSIONAL EXPERIENCE

December 2008 - Hurley Dorrier Professor and Chair
 Department of Biostatistics
 Johns Hopkins Bloomberg School of Public Health
 Baltimore, Maryland 21205

July 2008 -
 December 2008 Interim Chair
 Department of Biostatistics
 Johns Hopkins Bloomberg School of Public Health
 Baltimore, Maryland 21205

April 1, 2008 - Director
 Epidemiology and Biostatistics of Aging Training Program
 The Johns Hopkins Bloomberg School of Public Health
 Baltimore, MD 21205

PROFESSIONAL EXPERIENCE (continued)

April 2008 - January 2012	Interim Director Johns Hopkins Center on Aging and Health Johns Hopkins Medical Institutions Baltimore, MD 21205
September 2007- January 2008	Acting Director Johns Hopkins Center on Aging and Health Johns Hopkins Medical Institutions Baltimore, MD 21205
October 2002-	Professor Department of Biostatistics The Johns Hopkins Bloomberg School of Public Health Baltimore, Maryland 21205
December 1996- October 2002	Associate Professor Department of Biostatistics The Johns Hopkins University Baltimore, Maryland 21205
August 1996 – April 2008	Co-Director Epidemiology and Biostatistics of Aging Training Program The Johns Hopkins Bloomberg School of Public Health Baltimore, MD 21205
August 1990- December 1996	Assistant Professor Department of Biostatistics School of Hygiene and Public Health The Johns Hopkins University Baltimore, Maryland 21205
1987	Statistician Laboratory of Statistical Methodology Division of Computer Research and Technology National Institutes of Health
1985-1990	Teaching Assistant Operations Research and Industrial Engineering Cornell University
1984-1985	Assistant Office of Institutional Research Andrews University

PROFESSIONAL EXPERIENCE (continued)

1983-1984 Assistant
Marketing
Andrews University

PROFESSIONAL ACTIVITIESPOSITIONS HELD

President, The International Biometrics Society/Eastern North American Region, 2012
(Executive Committee 2011-2013)
Chair, Caucus on Academic Representatives, American Statistical Association (ASA), 2011
(Executive Committee, 2010-2013)
Member, Regional Committee (RECOM), The International Biometrics Society/Eastern North
American Region (IBS/ENAR), 2007-2009
Member, Committee on Finance, American Statistical Association, 2009-
Chair, Methods in Biostatistics and Research Design Study Section (NIH), 2006-2008
Chair, Biometrics Section, American Statistical Association, 2006
Principal Investigator, Biomarkers Initiative, Alliance for Aging Research, 2005-present
Member, Committee on Nominations, AAAS Statistics Section, 2005-2007
Secretary, Council of Presidents of Statistical Societies (COPSS), 2004-2006
Member, Methods in Biostatistics and Research Design Study Section (NIH), 2003-2006
Student Paper Award Committee Member, IBS/ENAR, 2005-present; 2001
Representative to AAAS Medical Science Section, IBS/ENAR, 2003-2005
Secretary, IBS/ENAR, 2001-2002
Program Committee Member, 2003 Spring Meeting of IBS/ENAR
Snedecor Award Committee, COPSS, 2001-3 (Chair, 2003)
Consultant to FDA Advisory Panel on Ophthalmic Devices, 1997-present
Representative to the IBS/ENAR Regional Advisory Board, 1996-98
Biometrics Representative to Council on Sections, American Statistical Association, 1995-97
Publications Officer, Biometrics Section, American Statistical Association, 1993-94

SESSIONS ORGANIZED

American Association for the Advancement of Science, 2004
Joint Statistical Meetings; 1996, 2000, 2003, 2006, 2011
IBS/ENAR; 2000, 2003
Gerontological Society of America; 1995, 1996, 1998, 2000, 2001
Society for Prevention Research; 2002

EDITORSHIPS

Statistical Consultant, *Journal of Gerontology, Medical Sciences*, 2006-present
Associate Editor, *Biometrics*, 2002-2005
Associate Editor, *Journal of the American Statistical Association*, 2002-2003

PEER REVIEW (selected)

American Journal of Epidemiology, Annals of Internal Medicine, Archives of Ophthalmology, Archives of Psychiatry, Biometrics, Biometrika, Biostatistics, Journal of the American Geriatrics Association, Journal of the American Statistical Association, Journal of Clinical Epidemiology, Journal of Epidemiology and Biostatistics, Journals of Gerontology, Journal of the Royal Statistical Society, Lifetime Data Analysis, Optometry and Vision Science, Statistics in Medicine, The American Statistician, The Gerontologist

PROFESSIONAL AFFILIATIONS

American Statistical Association
The International Biometrics Society
The Gerontological Society of America

HONORS AND AWARDS

- 2010 Golden Apple Award for Excellence in Teaching Award
 Bloomberg School of Public Health, The Johns Hopkins University
- Advising, Mentoring, and Teaching Recognition Award
 Bloomberg School of Public Health, The Johns Hopkins University
- 2005 Advising, Mentoring, and Teaching Recognition Award
 Bloomberg School of Public Health, The Johns Hopkins University
- 2001 Fellow, American Statistical Association
- 2001 Advising, Mentoring, and Teaching Recognition Award
 School of Public Health, The Johns Hopkins University
- 1999 Garland Clay Award,
 American Academy of Optometry,
 For co-authoring flagship journal's most cited paper in the preceding five years.
- 1998 Election to Delta Omega
- 1997 Brookdale National Fellow, for Outstanding Research on Aging
- 1989 Election to Phi Kappa Phi
- 1987 Citation in Recognition and Appreciation of Special Achievement,
 U.S. Department of Health and Human Services, National Institutes of Health.

PUBLICATIONS

Journal Articles

- Bandeen-Roche K and Ruppert D (1991). Source apportionment with one source unknown. Chemometrics and Intelligent Laboratory Systems 10:164-184.
- Hart J, Jeffery PJ, Lesser RP, Fisher RS, Monsein LH, Schwerdt P, Bandeen-Roche KJ, and Gordon B (1993). Anatomic Correlates of Memory from Intracarotid Amobarbital Injections with Tc-99m HMPAO SPECT. Archives of Neurology 50:745-750.
- Stewart WF, Gordon B, Selnes O, Bandeen-Roche K, Zeger S, Tusa RJ, Celentano DD, Shechter A, Lieberman J, Hall C, Lesser R, Randall RD (1994). A Prospective Study of CNS Function in US Amateur Boxers. American Journal of Epidemiology 139:573-588.
- Scott IU, Schein OD, West S, Bandeen-Roche K, Enger C, and Folstein MF (1994). Measurement of Functional Status and Quality of Life Among Patients with Ocular Disease. Archives of Ophthalmology 112:329-335.
- Arroyo S, Lesser RP, Fisher RS, Vining EP, Krauss GL, Bandeen-Roche K, Hart J, Gordon B, Uematsu S, Webber R (1994). Sites of Origin of Seizures with the Diffuse Electrodecremental Pattern. Epilepsia 35:974-987.
- Rubin GS, Bandeen-Roche K, Prasada-Rao P, and Fried LP (1994) Visual Impairment and Disability in Older Adults. Optometry and Vision Science 71:750-760.
- Bandeen-Roche KJ(1994). Resolution of Additive Mixtures into Source Components and Contributions: A Compositional Approach. Journal of American Statistical Association 89:1450-1458.
- Liang K-Y, Self SG, Bandeen-Roche K, and Zeger SL (1995). Some Recent Developments for Regression Analysis of Multivariate Failure Time Data (1995). Lifetime Data Analysis 1:403-415.
- Bandeen-Roche K, Liang KY (1996). Modeling Failure-time Associations in Data with Multiple Levels of Clustering. Biometrika 83:29-39.
- Hall C, Zeger SL, and Bandeen-Roche K (1996). Added Variable Plots for Cox's Proportional Hazards Model. Lifetime Data Analysis 2:73-90.
- Ferrucci L, Guralnik JM, Salive ME, Fried LP, Bandeen-Roche K, Brock DB, Simonsick EM, Corti MC, and Zeger SL. (1996). Effect of Age and Severity of Disability on Short Term Variation in Walking Speed. Journal of Clinical Epidemiology 49:1089-1096.

Journal Articles (continued)

- Fried LP, Bandeen-Roche K, Williamson JD, Prasada-Rao P, Chee E, Tepper S and Rubin GS (1996). Functional Decline in Older Adults: Expanding Methods of Ascertainment. Journal of Gerontology, Medical Sciences 51A:M206-214.
- West SK, Munoz B, Rubin GS, Schein OD, Bandeen-Roche K, Zeger S, German PS, Fried LP, and SEE Project Team (1997). Function and Vision in a Population-based Study of Older Adults: SEE Project. Investigative Ophthalmology and Vision Science 38(1):72-82.
- Rubin GS, West SK, Munoz B, Bandeen-Roche K, Zeger SL, Schein OD, Fried LP and SEE Project Team (1997). A Comprehensive Assessment of Visual Impairment in an Older American Population: SEE Study. Investigative Ophthalmology and Vision Science 38(3):557-558.
- Duncan DD, Munoz B, Bandeen-Roche K, West KJ, Wilson L, West SK, and the SEE Project Team (1997). Visible and Ultraviolet-B Ocular-Ambient Exposure Ratios for a General Population. Investigative Ophthalmology and Vision Science 38(5):1003-1011.
- Schein OD, Tielsch JM, Munoz B, Bandeen-Roche K, and West S (1997). Relation Between Signs and Symptoms of Dry Eye in the Elderly: A Population-based Perspective. Ophthalmology 104:1395-1401.
- Bandeen-Roche K, Munoz B, Tielsch JM, West SK, and Schein OD (1997). Self-Reported Assessment of Dry Eye in a Population-Based Setting. Investigative Ophthalmology 38(12):2469-2475.
- Bandeen-Roche K, Miglioretti D, Zeger SL, and Rathouz P (1997). Latent Variable Regression for Multiple Discrete Outcomes. Journal of the American Statistical Association 92(440):1375-1386.
- Schein OD, Munoz B, Tielsch JM, Bandeen-Roche K and West S (1997). Prevalence of Dry Eye Among the Elderly. American Journal of Ophthalmology 134(6):723-728.
- Duncan DD, Munoz B, Bandeen-Roche K, West SK (1997). Assessment of Ocular Exposure to Ultraviolet-B for Population Studies. Photochem and Photobiol 66(5):701-709.
- Ferrucci L, Guralnik JM, Buchner D, Kasper J, Lamb SE, Simonsick EM, Corti MC, Bandeen-Roche K, and Fried LP (1997). Departures from Linearity in the Relationship Between Measures of Muscular Strength and Physical Performance in the Lower Extremities: The Women's Health and Aging Study. Journal of Gerontology: Medical Sciences 2A:M275-M285.

Journal Articles (continued)

- Hochberg MC, Tielsch J, Munoz B, Bandeen-Roche K, West SK and Schein OD (1998). Prevalence of Symptoms of Dry Mouth and Their Relationship to Saliva Production in Community Dwelling Elderly: The SEE Project. Journal of Rheumatology 25:486-491.
- Rathouz PJ, Kasper JD, Zeger SL, Ferrucci L, Bandeen-Roche K, Miglioretti DL, and Fried LP (1998). Short-term Consistency in Self-reported Physical Functioning Among Elderly Women: The Women's Health and Aging Study. American Journal of Epidemiology 147(8):764-773.
- Gerring JP, Brady KD, Chen A, Vasa R, Grados M, Christensen JR, Bandeen-Roche KJ, Bryan RN, and Denckla MB (1998). Premorbid Prevalence of Attention-Deficit Hyperactivity Disorder and Development of Secondary Attention-Deficit Hyperactivity Disorder After Closed Head Injury. J Amer Acad Child and Adolescent Psych 37(6):647-654.
- West SK, Duncan DD, Munoz B, Bandeen-Roche et al. (1998). Sunlight Exposure and Risk of Lens Opacities in a Population Based Study. JAMA 280:714-718.
- Fried LP, Bandeen-Roche K, Kasper JD, and Guralnik JM (1999). Association of Comorbidity with Disability in Older Women: The Women's Health and Aging Study. Journal of Clinical Epidemiology 52:27-37.
- Valbuena M, Bandeen-Roche K, Rubsin GS, Munoz B, and West SK (1999). Self-Reported Assessment of Visual Function in a Population-Based Setting. Investigative Ophthalmology and Vision Science 40:280-288.
- Friedman SM, Munoz B, Rubin GS, West SK, Bandeen-Roche K, Fried LP, and the SEE Project Team (1999). Characteristics Associated with Discrepancy Between Self-reported Visual Function and Measured Reading Speed. Invest Ophthalmol Vis Sci 40:858-864.
- Munoz B, West S, Rubin GS, Schein OD, Fried LP, Bandeen-Roche K (1999). Who Participates in Population Based Studies of Visual Impairment? The Salisbury Eye Evaluation Project Experience. Ann Epidemiol 9(1):53-59.
- Punjabi NM, O'hearn DJ, Neubauer DN, Nieto FJ, Schwartz AR, Smith PL, Bandeen-Roche K (1999). Modeling Hypersomnolence in Sleep-Disordered Breathing: A Novel Approach Using Survival Analysis. Am J Respir Crit Care Med 159(6):1703-1709.
- Schein OD, Hochberg MC, Munoz B, Tielsch JM, Bandeen-Roche K, Provost T, Anhalt GJ and West S. (1999). Dry Eye and Dry Mouth in the Elderly: A Population-Based Assessment. Archives of Internal Medicine 159:1359-1363.
- Bandeen-Roche K, Hall C, Stewart WF, Zeger SL (1999). Modeling Disease Progression in Terms of Exposure History. Statistics in Medicine 18:2899-2916.

Journal Articles (continued)

- Bandeem-Roche K, Huang G-H, Munoz B, and Rubin GS (1999). On Determining Risk Factor Associations with Questionnaire Outcomes: A Methods Case Study. Am J Epidemiol 150:1165-1178.
- Guralnik JM, Ferrucci L, Penninx BWJH, Kasper JD, Leveille SG, Bandeem-Roche K, and Fried LP (1999). New and Worsening Conditions and Change in Physical and Cognitive Performance During Weekly Evaluations Over Six Months: The Women's Health and Aging Study. J Gerontol A Biol Sci Med Sci 54:M410-M422.
- Kasper JD, Shapiro S, Guralnik JM, Bandeem-Roche KJ, and Fried LP (1999). Designing a Community Study of Moderately to Severely Disabled Older Women: the Women's Health and Aging Study. Ann Epidemiology 9(8):498-507.
- Carlson MC, Fried LP, Xue QL, Bandeem-Roche K, Zeger SL and Brandt J. (1999). Association Between Executive Attention and Physical Functional Performance in Community-Dwelling Older Women. J Gerontol B Psychol Sci Soc Sci 54(5):S262-S270.
- Hirsch R, Guralnik GM, Geveille SG, Simonsick EM, Ling S, Bandeem-Roche K, Rantanen T, Pahor M, Fried LP, and Hochberg MC (1999). Severity of Hand Osteoarthritis and its Association with Upper Extremity Function in a Population of Disabled Older Women: The Women's Health and Aging Study. Aging 11:253-61.
- Fried LP, Bandeem-Roche K, Chaves PM, Johnson B (2000). Preclinical Mobility Disability Predicts Incident Mobility Disability in Older Women. J Gerontol Med Sci 55:M43-M52.
- West SK, Munoz B, Istre J, Rubin GS, Friedman SM, Fried LP, Bandeem-Roche K, and Schein OD (2000). Mixed lens opacities and subsequent mortality. Arch Ophthalmol 118:393-397.
- Gerring J, Brady K, Chen A, Quinn C, Herskovits E, Bandeem-Roche K, Denckla MB, and Bryan RN (2000). Neuroimaging variables related to development of Secondary Attention Deficit Hyperactivity Disorder after closed head injury in children and adolescents. Brain Injury 14:205-218.
- Munoz B, West SK, Rubin GS, Schein OD, Quigley HA, Bressler SB, and Bandeem-Roche K (2000). Causes of blindness and visual impairment in a population of older Americans: The Salisbury Eye Evaluation Study. Archives of Ophthalmology 118:819-825.
- Rubin GS, Munoz B, Bandeem-Roche K, and West SK (2000). Monocular versus binocular visual acuity as measures of vision impairment and predictors of visual disability. Investigative Ophthalmology and Vision Science 41:3327-3334.

Journal Articles (continued)

- Penninx BW, Guralnik JM, Bandeen-Roche K, Kasper JD, Simonsick EM, Ferrucci L, Fried LP (2000). The Protective Effect of Emotional Vitality on Adverse Health Outcomes in Disabled Older Women. Journal of the American Geriatrics Society 48:1359-1366.
- Schwartz BS, Stewart WF, Bolla KI, Simon PD, Bandeen-Roche K, Gordon PB, Links JM, Todd AC (2000). Past Adult Lead Exposure is Associated with Longitudinal Decline in Cognitive Function. Neurology 55:1144-1150.
- Rubin GS, Bandeen-Roche K, Huang GH, Munoz B, Schein OD, Fried LP, West SK (2001). The Association of Multiple Visual Impairments with Self-Reported Visual Disability. Investigative Ophthalmology and Visual Science 42(1):64-72.
- Simonsick EM, Kasper JD, Guralnik JM, Bandeen-Roche K, Ferrucci L, Hirsch R, Leveille S, Rantanen T, Fried LP. (2001). Severity of Upper and Lower Extremity Functional Limitation: Scale Development and Validation with Self-Report and Performance-Based Measures of Physical Function. WHAS Research Group. Women's Health and Aging Study. Journal of Gerontology Series B Psychological Sciences and Social Sciences 56(1):S10-19.
- Links JM, Schwartz BS, Simon D, Bandeen-Roche K, Stewart WF (2001). Characterization of Toxicokinetics and Toxicodynamics with Linear Systems Theory: Application to Lead-Associated Cognitive Decline. Environmental Health Perspectives 109(4):361-368.
- Scott IU, Schein OD, Beuer WJ, Folstein MF, Bandeen-Roche K (2001). Emotional Distress in Patients with Retinal Disease. American Journal of Ophthalmology 131(5):584-589.
- Fried LP, Young Y, Rubin G, Bandeen-Roche K (2001). Self-Reported Preclinical Disability Identifies Older Women with Early Declines in Performance and Early Disease. Journal of Clinical Epidemiology 54(9):889-901.
- Cappola AR, Bandeen-Roche K, Wand GS, Volpato S, Fried LP. Association of IGF-I Levels with Muscle Strength and Mobility of Older Women. Journal of Clinical Endocrinology and Metabolism 86(9):4139-4146.
- Leveille SG, Ling S, Hochberg M, Resnick HE, Bandeen-Roche K, Won A, and Guralnik JM (2001). Widespread Musculoskeletal Pain and the Progression of Disability in Older Women. Annals of Internal Medicine 135(12):1038-1046.
- Huang GH, Bandeen-Roche K, Rubin GS (2002). Building Marginal Models for Multiple Ordinal Measurements. Applied Statistics 51(1):1-21.
- Xue Q-L, Bandeen-Roche K (2002). Combining Complete Multivariate Outcomes with Incomplete Covariate Information: A Latent Class Approach. Biometrics 58(1):110-120.

Journal Articles (continued)

- Leveille SG, Bean J, Hochberg M, Bandeen-Roche K, Jones R, and Guralnik JM (2002). Musculoskeletal Pain and Risk for Falls in Older Women with Disabilities. Journal of the American Geriatrics Society 50(4):671-678.
- Punjabi, NM, Bandeen-Roche, K, Marx, JJ, Neubauer, DN, Smith, PL, and Schwartz, AR (2002). The Association Between Daytime Sleepiness and Sleep-Disordered Breathing in NREM and REM Sleep. Sleep 25(3):307-314.
- Bandeen-Roche K, Liang K-Y (2002). Modelling Multivariate Failure Time Associations in the Presence of a Competing Risk. Biometrika 89(2):299-314.
- Friedman DS, Munoz B, Massof RW, Bandeen-Roche K, West SK (2002). Grating Visual Acuity Using the Preferential Looking Method in Elderly Nursing Home Residents. Investigative Ophthalmology and Vision Science 43(8):2572-2578.
- Mendes de Leon CF, Guralnik JM, Bandeen-Roche K (2002). Short-Term Change in Physical Function and Disability: The Women's Health and Aging Study (WHAS). Journal of Gerontology: Social Sciences 57(B):S355-S365.
- Ferrucci L, Penninx BW, Volpato S, Harris TB, Bandeen-Roche K, Balfour J, Leveille SG, Fried LP, Guralnik JM (2002). Change in Muscle Strength Explains Accelerated Decline of Physical Function in Older Women with High Interleukin-6 Serum Levels. Journal of the American Geriatric Society 50(12):1947-1954.
- Punjabi NM, Bandeen-Roche K, Young T (2003). Predictors of Objective Sleep Tendency in the General Population. Sleep 26(6):678-683.
- West SK, Friedman D, Munoz B, Bandeen-Roche K, Park W, Deremeik J, Massof R, Frick K, Broman A, McGill W, and German, P (2003). A Randomized Trial of Visual Impairment Interventions for Nursing Home Residents: Study Design, Baseline Characteristics and Visual Loss. Ophthalmic Epidemiology 10(3):193-209.
- Schwartz BS, Glass TA, Bolla KI, Stewart WF, Glass G, Rasmussen M, Bressler J, Shi W, Bandeen-Roche K (2004). Disparities in Cognitive Functioning by Race/Ethnicity in the Baltimore Memory Study. Environmental Health Perspectives 112(3):314-320.
- Turano KA, Broman AT, Bandeen-Roche K, Munoz B, Rubin GS, West S, SEE Project Team (2004). Association of Visual Field Loss and Mobility Performance in Older Adults: Salisbury Eye Evaluation Study. Optometry and Vision Science 81(5):298-307.
- Frick KD, Scanlon DP, Bandeen-Roche K, Kasper JD, and Simonsick, EM (2004). Influenza Vaccination by Race Among Disabled Community Dwelling Older Women. Journal of Health Care for the Poor and Underserved 15(2):220-236.

Journal Articles (continued)

- Broman AT, West SK, Munoz B, Bandeen-Roche K, Rubin GS, Turano KA (2004). Divided Visual Attention as a Predictor of Bumping While Walking: The Salisbury Eye Evaluation. Investigative Ophthalmology and Vision Science 45(9):2955-2960.
- Menard CB, Bandeen-Roche KJ, Chilcoat HD (2004). Epidemiology of Multiple Childhood Traumatic Events: Child Abuse, Parental Psychopathology, and Other Family-Level Stressors. Social Psychiatry and Psychiatric Epidemiology 39(11):857-865.
- Huang G-H, Bandeen-Roche K (2004). Latent Class Regression with Covariate Effects on Underlying and Measured Variables. Psychometrika 69(1):5-32.
- Roche KM, Mekos D, Alexander CS, Astone NM, Bandeen-Roche K, Ensminger ME (2005). Parenting Influences on Early Sex Initiation Among Adolescents: How Neighborhood Matters. Journal of Family Issues 26:32-54.
- Clayman ML, Roter D, Wissow LS, Bandeen-Roche K (2005). Autonomy-related Behaviors of Patient Companions and Their Effect on Decision-making Activity in Geriatric Primary Care Visits. Social Science and Medicine 60(7):1583-1591.
- Leng S, Xue Q-L, Huang Y, Semba R, Chaves P, Bandeen-Roche K, Fried LP, Walston, J. (2005). Total and Differential White Blood Cell Counts and Their Associations with Circulating Interleukin-6 Levels in Community-dwelling Older Women. Journal of Gerontology, Medical Sciences 60(2):195-199.
- Han B, Phillips C, Ferrucci L, Bandeen-Roche K, Jylha M, Kasper J, Guralnik JM (2005). Change in Self-rated Health and Mortality among Community-dwelling Disabled Older Women. The Gerontologist 45 (2): 216-221.
- Chen M-C, Bandeen-Roche K (2005). Diagnostics for Association in Bivariate Survival Models. Lifetime Data Analysis 11(2):245-264.
- Wang C-P, Brown CH, Bandeen-Roche K (2005). Residual Diagnostics for Growth Mixture Models: Examining the Impact of a Preventive Intervention on Multiple Trajectories of Aggressive Behavior. Journal of the American Statistical Association 100(3):1054-1076.
- West SK, Munoz B, Rubin GS, Bandeen-Roche K, Broman AT, Turano KA (2005). Compensatory strategy use identifies risk of incident disability for the visually impaired. Archives of Ophthalmology 123(9):1242-1247.
- Friedman DS, Munoz B, Bandeen-Roche K, Massof R, Broman A, West SK (2005). Poor Uptake of Cataract Surgery in Nursing Home Residents: The Salisbury Eye Evaluation in Nursing Home Groups Study. Archives of Ophthalmology 123:1581-1587.

Journal Articles (continued)

- Freeman EE, Eggleston BL, West SK, Bandeen-Roche K, Rubin G (2005). Visual acuity change and mortality in older adults. Investigative Ophthalmology and Vision Science 46(11):4040-4045.
- Patel I, Turano KA, Broman AT, Bandeen-Roche K, Munoz B, West SK (2006). Measures of visual function and percentage of preferred walking speed in older adults: the Salisbury eye evaluation project. Investigative Ophthalmology and Vision Science 47(1):65-71.
- Martin D, Glass TA, Bandeen-Roche K, Todd AC, Shi W, Schwartz BS (2006). Association of blood lead and tibia lead are associated with blood pressure and hypertension in a community sample of older adults. American Journal of Epidemiology 163(5):467-468.
- Ling SM, Xue QL, Simonsick EM, Tian J, Bandeen-Roche K, Fried LP, Bathon JM (2006). Transitions to mobility difficulty associated with lower extremity osteoarthritis in high functioning older women: Longitudinal data from the Women's Health and Aging Study II. Arthritis and Rheumatism 55(2):256-263.
- Bandeen-Roche K, Xue Q-L, Ferrucci L, Walston J, Guralnik JM, Chaves P, Zeger SL, Fried LP (2006). Phenotype of frailty: Characterization and validation in the Women's Health and Aging Studies. Journal of Gerontology Series A 61(3):262-266.
- Congdon NG, Broman AT, Bandeen-Roche K, Grover D, Quigley HA (2006). Central corneal thickness and corneal hysteresis associated with glaucoma damage. American Journal of Ophthalmology 141(5):868-75.
- Asao K, Kao WH, Baptiste-Roberts K, Bandeen-Roche K, Erlinger TP, Brancati FL (2006). Short stature and the risk of adiposity, insulin resistance, and type 2 diabetes in middle age: the third National Health and Nutrition Examination Survey (NHANES III), 1988-1994. Diabetes Care 29(7):1632-7, 2006.
- Glenn BS, Bandeen-Roche K, Lee B-K, Weaver VM, Todd AC, Schwartz BS (2006). Changes in systolic blood pressure associated with lead in blood and bone. Epidemiology 17(5):538-44.
- Shih RA, Glass TA, Bandeen-Roche K, Carlson MC, Bolla KI, Todd AC, Schwartz BS (2006). Environmental lead exposure and cognitive function in community-dwelling older adults. Neurology 67(9):1556-62.
- Rao KD, Peters DH, Bandeen-Roche K (2006). Towards patient-centered health services in India—a scale to measure patient perceptions of quality. International Journal for Quality in Health Care 18(6):414-21.

Journal Articles (continued)

- Rubin GS, Ng ES, Bandeen-Roche K, Keyl PM, Freeman EE, West SK (2007). A prospective, population-based study of the role of visual impairment in motor vehicle crashes among older drivers: the SEE Study. Investigative Ophthalmology and Visual Science 48(4):483-91.
- Weiss CO, Fried LP, Bandeen-Roche K (2007). Exploring the hierarchy of mobility performance in high-functioning older women. Journal of Gerontology: A Biological Sciences and Medical Sciences 62(2):167-73.
- Lee BK, Glass TA, McAtee MJ, Wand GS, Bandeen-Roche K, Bolla KI, Schwartz BS (2007). Associations of salivary cortisol with cognitive function in the Baltimore Memory Study. Archives of General Psychiatry 64(7):810-8.
- Broman AT, Congdon NG, Bandeen-Roche K, Quigley HA (2007). Influence of corneal structure, corneal responsiveness, and other ocular parameters on tonometric measurement of intraocular pressure. Journal of Glaucoma Oct-Nov;16(7):581-8.
- Zhang L, Baldwin K, Munoz B, Munro C, Turano K, Hassan S, Lyketsos C, Bandeen-Roche K, West SK (2007). Visual and cognitive predictors of performance on brake reaction test: Salisbury eye evaluation driving study. Ophthalmic Epidemiology 14(4):216-22.
- Alley DE, Crimmins E, Bandeen-Roche K, Guralnik J, Ferrucci (2007). Three-year change in inflammatory markers in elderly people and mortality: the Invecchiare in Chianti study. Journal of the American Geriatric Society 55(11):1801-7.
- Broman AT, Quigley HA, West SK, Katz J, Munoz B, Bandeen-Roche K, Tielsch JM, Friedman DS, Crowston J, Taylor HR, Varma R, Leske MC, Bengtsson B, Heijl A, He M, Foster PJ (2008). Estimating the rate of progressive visual field damage in those with open-angle glaucoma, from cross-sectional data. Investigative Ophthalmology and Visual Science 49(1):66-76, 2008.
- Bandeen-Roche K, Ning J (2008). Nonparametric Estimation of Bivariate Failure-Time Associations in the Presence of a Competing Risk. Biometrika; 95(1):221-32.
- Theppeang K, Glass TA, Bandeen-Roche K, Todd AC, Rohde CA, Schwartz BS (2008). Gender and race/ethnicity differences in lead dose biomarkers. American Journal of Public Health 98(7):1248-55.
- Swihart B, Caffo B, Bandeen-Roche K, Punjabi N (2008). Characterizing Sleep Structure Using the Hypnogram. Journal of Clinical Sleep Medicine 4(4):349-355.
- St. Julien J, Bandeen-Roche K, Tamargo R (2008). Validation of an Aneurysmal Subarachnoid Hemorrhage Grading Scale in 1532 Consecutive Patients. Neurosurgery 63:204-211.

Journal Articles (continued)

Szanton S, Allen J, Seplaki C, Bandeen-Roche K, Fried L (2008). Allostatic Load and Frailty in the Women's Health and Aging Studies. Biological Research for Nursing 10(3):248-56.

Matteini AM, Walston JD, Fallin MD, Bandeen-Roche K, Kao WH, Semba RD, Allen RH, Guralnik J, Fried LP, Stabler SP (2008). Markers of B-vitamin deficiency and frailty in older women. Journal of Nutrition, Health, and Aging 12 (5):303-308.

Varadhan R, Seplaki CS, Xue QL, Bandeen-Roche K, Fried LP (2008). Stimulus-response paradigm for characterizing the loss of resilience in homeostatic regulation associated with frailty. Mech Ageing Dev 129(11):666-70.

Xue QL, Bandeen-Roche K, Varadhan R, Zhou J, Fried LP (2008). Initial manifestations of frailty criteria and the development of frailty phenotype in the Women's Health and Aging Study II. Journal of Gerontology: Medical Sciences 63(9):984-990.

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September 5, 2013

CURRICULUM VITAE**Karen Bandeen-Roche****Part II****TEACHING**Departmental Oral Examinations

Yutaka Yasui, Biostatistics, 1991
John J. Hanfelt, Biostatistics, 1992
Charles Hall, Biostatistics, 1992
Sterling Hilton, Biostatistics, 1992
Shu-Hui Chang, Biostatistics, 1992
Min-Chi Chen, Biostatistics, 1994
Xiongwei Ju, Biostatistics, 1995

Preliminary School Oral Examinations

Charlotte Gaydos, Dr.PH., Immunology & Infectious Diseases, 1990
Hank Gardner, Sc.D., Environmental Health Science, 1991
Sandra Cassard, Sc.D., Health Policy & Management, 1991
Altrena Mukuria, Sc.D., International Health, 1991
Omar Ben Ahmad, Sc.D., Population Dynamics, 1992
Manuel Gomez, Dr.PH., Environmental Health Science, 1992
Shu-Hui Chang, Ph.D., Biostatistics, 1992
Sterling Hilton, Ph.D., Biostatistics, 1992
Jerald Fagliano, Ph.D., Epidemiology, 1992
Craig Newschaffer, Ph.D., Epidemiology, 1992
Gabriella Newes, Sc.D., International Health, 1993
Nga Tran, Dr.PH., Environmental Health Science, 1993
Mary Lou Gutierrez-Mohamed, Sc.D., Health Policy & Management, 1993
Sohail Agha, Ph.D., Population Dynamics, 1994
Christine Nelson, Ph.D., Epidemiology, 1994
Gwendolyn Hammer, Dr.PH., Health Policy & Management, 1994
Carolyn Dewa, Ph.D., Health Policy & Management, 1995
Joshua Liberman, Ph.D., Epidemiology, 1995
Michele Dreyfus, Sc.D., International Health, 1995
Barbara Glenn, Ph.D., Epidemiology, 1995
Kathryn Yount, Ph.D., Population Dynamics, 1995
Ginny Hsieh, Ph.D., Health Policy & Management, 1995
Priya Nanda, Ph.D., International Health, 1995
Peter J. Ashley, Dr.PH., Environmental Health Sciences, 1996

Preliminary School Oral Examinations (continued)

Barbara K. Martin, Ph.D., Epidemiology, 1996
Marguerite Ro, Dr. PH., Health Policy & Management, 1996
Allyson Hall, Ph.D., Health Policy & Management, 1996
Shou-En Lu, Ph.D., Biostatistics, 1996
Richard Jones, Sc.D., Mental Hygiene, 1996
Elizabeth Garrett, Ph.D., Biostatistics, 1997
Diana McDonnell, Ph.D., Population Dynamics, 1997
Chantal Worzala, Ph.D., Health Policy & Management, 1997
Kathleen Roche-Salyers, Ph.D., Maternal & Child Health, 1997
Li-Hui Chen, Ph.D., Health Policy & Management, 1997
Javier Cid Ruzafa, Ph.D., Epidemiology, 1997
Guan-Hua Huang, Ph.D., Biostatistics, 1997
Naresh Punjabi, Ph.D., Clinical Investigations, 1998
Huey-Fan Sun, Mental Hygiene, 1998
Fang-Chi Hsu, Ph.D., Biostatistics, 1998
Rebecca Robert, Ph.D., International Health, 1998
Kim Sydnor, Ph.D., Health Policy & Management, 1999
Patrica Paluzzi, Dr. P.H., Maternal & Child Health, 1999
Akane Miyazawa, Ph.D., Health Policy & Management, 2000
Erin Sullivan, Ph.D., Health Policy & Management, 2000
ByungKwang Yoo, Ph.D., Health Policy & Management, 2000
Elizabeth Mumford, Ph.D., Population Dynamics, 2001
Annette Amey, Ph.D., Population Dynamics, 2001
Gregory Breeden, Ph.D., Health Policy & Management, 2001
Nicole Rolley, Ph.D., Health Policy & Management, 2001
Anita Bercovitz, Ph.D., Health Policy & Management, 2001
Valerie Forman, Ph.D., Mental Hygiene, 2001
Holly Wilcox, Ph.D., Mental Hygiene, 2001
Christian Menard, Ph.D., Mental Hygiene, 2001
Jennifer Wolff, Ph.D., Health Policy & Management, 2001
Amani Nuru-Jeter, Ph.D., Health Policy & Management, 2001
Hongfei Guo, Ph.D., Biostatistics, 2001
Allegra Kim, Ph.D., Health Policy & Management, 2002
Laura Pritchett, Ph.D., Health Policy & Management, 2002
Susan Higman, Ph.D., Health Policy & Management, 2002
Margaret Weden, Ph.D., Population & Family Health Sciences, 2002
Sophia Kazakova, Ph.D., Health Policy & Management, 2002
Krishna Rao, Ph.D., International Health, 2002
Marlene Niefeld, Ph.D., Health Policy & Management, 2002
Charles Reuland, Ph.D., Health Policy & Management, 2002
Michelle Shardell, Ph.D., Biostatistics, 2002
Yi Huang, Ph.D., Biostatistics, 2003
Varduhi Petrosyan, Ph.D., Health Policy & Management, 2003
Michelle Mielke, Ph.D., Mental Hygiene, 2003

Preliminary School Oral Examinations (continued)

Farin Kamangar, Ph.D., Epidemiology, 2003
Brian Egleston, Ph.D., Biostatistics, 2003
Oyelola Yomi Faparusi, Ph.D., Mental Health, 2003
Kathleen Haddad, Ph.D., Health Policy & Management, 2004
Jennifer Lincoln, Ph.D., Health Policy & Management, 2004
Keshia M. Pollack, Ph.D., Health Policy & Management, 2004
Margaret F. Haynes, Ph.D., Health Policy & Management, 2004
Jessica Gill, Ph.D., Nursing, 2004
Kristen Hurley, Ph.D., International Health, 2004
Jing Ning, Ph.D., Biostatistics, 2005
Peter Hansen, Ph.D., International Health, 2005
Aaron Alford, Ph.D., Mental Health, 2005
April Zeoli, Ph.D., Health Policy & Management, 2005
Amy Matteini Mahoney, Ph.D., Epidemiology, 2005
Jonathan Brown, Ph.D., Health Policy & Management, 2005
Jason Farley, Ph.D., Nursing, 2005
Wadih Maalouf, Ph.D., Mental Health, 2005
Lora Iannotti, Ph.D., International Health, 2005
Onyemaechi Nweke, DrPH, Environmental Health Sciences, 2005
Briana Mezuk, Ph.D., Mental Health, 2005
Shu-Chih Su, Ph.D., Biostatistics, 2005
Amanda Kalaydjian, Ph.D., Mental Health, 2005
Marjorie Opuni-Akuamo, Ph.D., Population and Family Health Sciences, 2005
Renan Castillo, Ph.D., Health Policy and Management, 2005
Jessica Langbaum, Ph.D., Mental Health, 2006
Jeannie-Marie Sheppard, Ph.D., Mental Health, 2006
Hossein Bahrami, Ph.D., Epidemiology, 2006
Kelly Benke, Ph.D., Epidemiology, 2006
Sandhya Sundaram, Ph.D., International Health, 2006
Alison Laffan, Ph.D., Epidemiology, 2006
Chongzhi Di, Ph.D., Biostatistics, 2006
Lilian Ghandour, Ph.D., Mental Health, 2007
Bryan James, Ph.D., Epidemiology, 2007
Brent Mancha, Ph.D., Epidemiology, 2007
Sandrah Eckel, Ph.D., Biostatistics, 2007
Brian Lee, Ph.D., Epidemiology, 2007
Laura Steinhardt, Ph.D., International Health, 2007
Sachiko Ozawa, Ph.D., International Health, 2007
Roxanne Jensen, Ph.D., Health Policy and Management, 2008
Michal Engelman, Ph.D., Population and Family Health Sciences, 2008
Jean Ko, Ph.D., Mental Health, 2008
Hong Zhu, Ph.D., Biostatistics, 2008
Jennifer Schrack, Ph.D., Epidemiology, 2009
Jennifer Deal, Ph.D., Epidemiology, 2009

Preliminary School Oral Examinations (continued)

Ann Zenobia Moore, Ph.D., Epidemiology, 2010
 Sachiko Kuwabara, Ph.D., Mental Health, 2010
 Pei-Hsin Lin, Ph.D., Health Policy and Management, 2011
 Joan Casey, Ph.D., Environmental Health Sciences, 2011
 Alison Turnbull, Ph.D. Epidemiology, 2011
 Eva Dugoff, Ph.D., Health Policy and Management, 2011
 Saman Nazarian, Ph.D., Epidemiology, 2011
 Matthew Gribble, Ph.D., Epidemiology, 2011
 Priya Palta, Ph.D., Epidemiology, 2011

Final Oral Examinations/Thesis Reader

Beth A. Melton, Sc.M., Biostatistics, 1992
 Elizabeth Y. Attias, Sc.D., Maternal & Child Health, 1992
 Mary E. Cogswell, Dr.PH., International Health, 1992
 Sandra Cassard, Sc.D., Health Policy & Management, 1992
 Vincent Carey, Ph.D., Biostatistics, 1992
 Barbara McKinney, Sc.D., Population Dynamics, 1992
 Omar Ben Ahmad, MD, Sc.D., Population Dynamics, 1993
 Lawrence Magder, Ph.D., Biostatistics, 1994
 Camara Jones, Ph.D., Epidemiology, 1994
 Nga Tran, Dr.PH., Environmental Health Sciences, 1994
 Manuel Gomez, Dr.PH., Environmental Health Sciences, 1994
 Shu-Hui Chang, Biostatistics, 1995
 Mary Lou Gutierrez-Mohamed, Sc.D. Health Policy & Management, 1995
 Jean M. Lawrence, Sc.D., Maternal and Child Health, 1995
 Ana V. Diez Roux, Ph.D., Health Policy & Management, 1995
 Charles B. Hall, Ph.D., Biostatistics, 1995
 Sohail Agha, Ph.D., Population Dynamics, 1995
 Peter J. Ashley, Dr. PH., Environmental Health Sciences, 1996
 Diana Miglioretti, Sc.M., Biostatistics, 1996
 Sterling Hilton, Ph.D., Biostatistics, 1996
 Farid Midhet, Dr. PH., Population Dynamics, 1996
 Jonathan D. Mosley, Sc.M., Epidemiology, 1997
 Gwendolyn Hammer, Ph.D., Health Policy & Management, 1997
 Altrena Mukuria, Dr. P.H., International Health, 1997
 Patricia Risica, Dr. P.H., International Health, 1997
 Allyson D. Hall, Ph.D., Health Policy & Management, 1997
 Yukihiro Shiroishi, Ph.D., International Health, 1997
 Min-Chi Chen, Ph.D., Biostatistics, 1997
 Gina D'Angelo, Sc.M., Biostatistics, 1998
 Kathleen Anne Cagney, Health Policy & Management, 1998
 Michael Paglia, Health Policy & Management, 1998
 Kathleen Roche-Salyers, Maternal and Child Health, 1998

Final Oral Examinations/Thesis Reader (continued)

Christine Huang, Health Policy & Management, 1998
Altrena Mukuria, Ph.D., International Health, 1998
Chingchaw Huang, Ph.D., Health Policy & Management, 1998
Chia-Yih Wang, Ph.D., International Health, 1999
Sveta Weiner, Sc.M., Biostatistics, 1999
Kathryn Yount, Ph.D., Population & Family Health Sciences, 1999
Chantal Worzala, Ph.D., Health Policy & Management, 1999
Marc Debay, Ph.D., Population & Family Health Sciences, 1999
Anita Chen, Sc.M., Biostatistics, 2000
Guan-Hua Huang, Ph.D., Biostatistics, 2000
Steven Holden, Ph.D., Economics, 2000
Erin Sullivan, Ph.D., Health Policy & Management, 2000
Qian-Li Xue, Ph.D., Biostatistics, 2000
Anne Cappola, Sc.M., Epidemiology, 2001
Zhong Zhao, Ph.D., Economics, 2001
Akane Miyazawa, Ph.D., Health Policy & Management, 2001
Darius Sivin, Ph.D., Health Policy & Management, 2002
Byung-Kwang Yoo, Ph.D., Health Policy & Management, 2002
Thomas Trivison, Ph.D., Biostatistics, 2002
Nicole Rolley, Ph.D., Health Policy & Management, 2002
Lara Trifiletti, Ph.D., Health Policy & Management, 2002
Anita Bercovitz, Ph.D., Health Policy & Management, 2002
Yingyao Hu, Ph.D., Economics, 2003
Holly Wilcox, Ph.D., Mental Health, 2003
Christian Menard, Ph.D., Mental Hygiene, 2003
Joanna Grieg, Ph.D., Epidemiology, 2003
Anita Roth Bercovitz, Ph.D., Health Policy & Management, 2003
Marla Clayman, Ph.D., Health Policy & Management, 2003
Sophia Kazakova, Ph.D., Health Policy & Management, 2003
Ya-Pei Liu, Ph.D., Epidemiology
Charles Reuland, Sc.D., Health Policy & Management, 2004
Kathryn Laughon, Ph.D. School of Nursing, 2004
Allegra Kim, Ph.D., Health Policy & Management, 2004
Gregory Breeden, Ph.D., Health Policy & Management, 2004
Margaret M. Weden, Ph.D., Population Dynamics, 2004
Krishna Rao, Ph.D., International Health, 2004
Oyelola Faparusi, Ph.D., Mental Health, 2005
JeanHee Moon, Ph.D., Health Policy & Management, 2005
Min Tseng, Sc.M., Epidemiology, 2005
Keshia Pollack, Ph.D., Health Policy and Management, 2005
Margaret Haynes, Ph.D., Health Policy and Management, 2005
Hongfei Guo, Ph.D., Biostatistics, 2006
Sharon Kozachik, Ph.D., Nursing, 2006
Brian Egleston, Ph.D., Biostatistics, 2006

Final Oral Examinations/Thesis Reader (continued)

Keiko Asao, Ph.D., Epidemiology, 2006
 Snaebjorn Gunnsteinsson, Sc.M., Biostatistics, 2006
 Onyemaechi Nweke, Dr.PH, Environmental Health Sciences, 2006
 Amanda Kalaydjian, Ph.D., Mental Health, 2006
 Yi Huang, Ph.D., Biostatistics, 2007
 Chun-Ju Hsiao, PhD, Health Policy & Management, 2007
 Lora Iannotti, PhD, International Health, 2007
 April M. Zeoli, PhD, Health Policy & Management, 2007
 Michiyo Yamazaki, Population and Family Health Science, 2007
 Peter Hansen, International Health, 2007
 Jeannie-Marie Sheppard Leoutsakos, Ph.D., Mental Health, 2007
 Jing Ning, Ph.D., Biostatistics, 2007
 Jason Farley, Ph.D., Nursing, 2007
 Aneesa Arur, Ph.D., International Health, 2007
 Renan Castillo, Ph.D., Health Policy and Management, 2008
 Shu-Chih Su, Ph.D., Biostatistics, 2008
 Lilian Ghandour, Ph.D., Mental Health, 2008
 Alden Gross, Ph.D., Mental Health, 2009
 Kelly Benke, Ph.D., Epidemiology, 2009
 Chongzhi Di, Ph.D., Biostatistics, 2009
 Joanna Famadas, Ph.D., Health Policy and Management, 2010
 Laura Steinhardt, Ph.D., International Health, 2010
 Sachiko Ozawa, Ph.D., International Health, 2010
 Jean Ko, Ph.D., Mental Health, 2010
 Hong Zhu, Ph.D., Biostatistics, 2010
 Michal Engelman, Ph.D., Population, Family, and Reproductive Health, 2010
 Alden Gross, Ph.D., Mental Health, 2010
 Erika Hedderick, Sc.M., Graduate Training Program in Clinical Investigation, 2011
 Ann Zenobia Moore, Ph.D., Epidemiology, 2012
 Megan Salter, Ph.D. Epidemiology, 2012

Primary Thesis Advisor/Co-Advisor

Jennifer Schroeder, Sc.M., Biostatistics, 1995
 Charles Hall, Ph.D., Biostatistics, 1995 (secondary; jointly with Scott Zeger)
 Diana Miglioretti, Sc.M., Biostatistics, 1996
 Min-Chi Chen, Ph.D., Biostatistics, 1997 (primary; jointly with Kung-Yee Liang)
 Gina D'Angelo, Sc.M., Biostatistics, 1998
 Sveta Weiner, Sc.M., Biostatistics, 1999
 Anita Chen, Sc.M., Biostatistics, 2000
 Guan-Hua Huang, Ph.D., Biostatistics, 2000
 Qian-Li Xue, Ph.D., Biostatistics, 2000
 Hongfei Guo, Ph.D., Biostatistics, 2006
 Yi Huang, Ph.D., Biostatistics, 2007
 Jeannie-Marie Sheppard, Ph.D., Mental Health, 2007 (jointly with Peter Zandi)

Primary Thesis Advisor/Co-Advisor (continued)

Susan Warren, Ph.D., Biostatistics, George Washington University, 2010

Primary Advisor

Brian Egleston, Doctoral student, Biostatistics, 2001-2004

Sandrah Eckel, Doctoral student, Biostatistics, 2004-2006

Bruce Swihart, Doctoral student, Biostatistics, 2006-2007

Taki Shinohara, Doctoral student, Biostatistics, 2007-2009

Vivienne Thairu, Doctoral student, Biostatistics, 2008-2010

Sarah Khasawinah, Doctoral student, Biostatistics, 2009-2011

Elizabeth Sweeney, Doctoral student, Biostatistics, 2010-2011

John Tillinghast, Post-doctoral fellow, Biostatistics, 2007-2010

Michal Engelman, Post-doctoral fellow, Biostatistics, 2010-2011

Classroom Instruction1990-1991

Biostatistics 140.643 - Applied Multivariate Statistics I

1991-1992

Biostatistics 140.650 - Methods in Biostatistics I

Biostatistics 140.651 - Methods in Biostatistics II

1992-1993

Biostatistics 140.650 - Methods in Biostatistics I

Biostatistics 140.651 - Methods in Biostatistics II

1993-1994

Biostatistics 140.651 - Methods in Biostatistics I

Biostatistics 140.652 - Methods in Biostatistics II

Biostatistics 140.603 - Statistical Modelling (University of Helsinki)

1994-1995

Biostatistics 140.651 - Methods in Biostatistics I

Biostatistics 140.652 - Methods in Biostatistics II

1995-1996

Biostatistics 140.653 - Methods in Biostatistics III

Biostatistics 140.654 - Methods in Biostatistics IV

Classroom Instruction (continued)1996-1997

Biostatistics 140.653	- Methods in Biostatistics III
Biostatistics 140.654	- Methods in Biostatistics IV

1997-1998

Biostatistics 140.653	- Methods in Biostatistics III
Biostatistics 140.654	- Methods in Biostatistics IV

1998-1999

Mental Hygiene 330.657	- Statistics for Psychosocial Research I
Biostatistics 140.658	- Statistics for Psychosocial Research II

1999-2000

Mental Hygiene 330.657	- Statistics for Psychosocial Research I
Biostatistics 140.658	- Statistics for Psychosocial Research II

2000-2001

Biostatistics 140.653	- Methods in Biostatistics III
Biostatistics 140.654	- Methods in Biostatistics IV

2001-2002

Biostatistics 140.653	- Methods in Biostatistics III
Biostatistics 140.654	- Methods in Biostatistics IV

2002-2003

Biostatistics 140.621	- Statistical Methods in Public Health I
Biostatistics 140.622	- Statistical Methods in Public Health II

2003-2004

Biostatistics 140.621	- Statistical Methods in Public Health I
Biostatistics 140.622	- Statistical Methods in Public Health II
Biostatistics 140.623	- Statistical Methods in Public Health III

Classroom Instruction (continued)2004-2005

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| Biostatistics 140.621 | - Statistical Methods in Public Health I |
| Biostatistics 140.622 | - Statistical Methods in Public Health II |
| Biostatistics 140.623 | - Statistical Methods in Public Health III |

2005-2006

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| Biostatistics 140.653 | - Methods in Biostatistics III |
| Biostatistics 140.654 | - Methods in Biostatistics IV |

2006-2007

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| Biostatistics 140.653 | - Methods in Biostatistics III |
| Biostatistics 140.654 | - Methods in Biostatistics IV |

2007-2008

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| Biostatistics 140.653 | - Methods in Biostatistics III |
| Biostatistics 140.654 | - Methods in Biostatistics IV |

2008-2009

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| Biostatistics 140.621 | - Statistical Methods in Public Health I |
| Biostatistics 140.622 | - Statistical Methods in Public Health II |
| Biostatistics 140.623 | - Statistical Methods in Public Health III |

2009-2010

- | | |
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| Biostatistics 140.621 | - Statistical Methods in Public Health I |
| Biostatistics 140.622 | - Statistical Methods in Public Health II |
| Biostatistics 140.623 | - Statistical Methods in Public Health III |

2010-2011

- | | |
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| Biostatistics 140.621 | - Statistical Methods in Public Health I |
| Biostatistics 140.622 | - Statistical Methods in Public Health II |
| Biostatistics 140.623 | - Statistical Methods in Public Health III |

2012-2012

- | | |
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| Biostatistics 140.621 | - Statistical Methods in Public Health I |
| Biostatistics 140.622 | - Statistical Methods in Public Health II |

RESEARCH GRANT PARTICIPATION – CURRENT

“Johns Hopkins Alzheimer’s Disease Research Center (ADRC),” 04/01/10 – 03/31/15

NIH/NIA

Marilyn Albert, 7%

The aims are to coordinate and integrate all aspects of data management for ADRC, to provide statistical support and expert statistical consultation for all projects associated with ADRC, and to develop novel methods of analysis for studying progressive cognitive decline and dementia among old individuals.

Role: Co-Investigator

“Center for Prevention and Early Intervention,” 07/01/09 – 04/30/14

NIH/NIMH

Nicholas Ialongo, 5%

To conduct substantive and methodological research on novel school and family based interventions to prevent mental disorders, substance abuse and violence.

Role: Co-Investigator

“Comparative Effectiveness Studies to Improve Patient Outcomes in End Stage Renal Disease (ESRD),” 07/20/10 – 07/19/13

AHRQ (ARRA), 10%

This goal of the proposed research is to address the comparative effectiveness of strategies to improve cardiovascular disease outcomes among patients with End Stage Renal Disease (ESRD).

Role: Co-Investigator

“Older Americans Independence Center,” 07/01/08 – 05/31/13

NIH/NIA

Jeremy Walston/Karen Bandeen-Roche, 20%

The Center is dedicated to developing the next generation of research to determine the causes and treatments for frailty in older adults.

Other roles: Director and Co-Investigator of the Biostatistics Core

“Institutional Clinical and Translation Science Award,” 09/17/07 – 05/31/12

NIH/NCRR

Daniel Ford, 5%

The purpose of this application is to enhance both the process and benefits of clinical and translational research by bringing together the diverse resources of the Johns Hopkins Medical Institutions (JHMI) and creating a new model for carrying out scientific research.

Role: Co-Investigator

Research Grant Participation – Current (continued)

“Drug Abuse and Crime across the Life Course in an African American Population,” 03/15/08 – 12/31/11

NIH

Margaret Ensminger, 5%

The major goals of this is how substance use in adolescence and early adulthood relates to the risk of being arrested and incarcerated and, conversely, how early arrests and incarceration influence later drug use and criminal behaviors.

Role: Co-Investigator

RESEARCH GRANT PARTICIPATION – COMPLETED

“National Study of Disability Trends and Dynamics,” 09/30/08 – 09/29/13

NIH/NIA

Kasper Hansen, 5%

Study to design, test, field and disseminate a new National Study of Disability Trends and Dynamics. The new study will be a platform for scientific inquiry to guide efforts to reduce disability, maximize functioning, and enhance older adults’ quality of life.

Role: Co – Investigator

“NFkB Related Genetic Influences on Inflammation and Poor Health in Older Adults,” – 09/01/06 - 08/31/11

NIA

Jeremy Walston, 6%

The long-term goal of this study is o identify genes and biologic pathways related to inflammation that influence rapid decline in function and influence frailty and mortality in a subset of older adults.

Role: Co-investigator

“Pathogenesis of Disability in Aging Women,” 09/01/08 – 08/31/11

Subcontract - Columbia University

Bandeem-Roche, 10%

The project proposes to evaluate evidence as to the pathogenesis of physical disability in older women, assessing the independent and joint contributions to disability of blood-based measures of inflammation, hormonal and hematologic status, and micronutrient deficiencies, and heart rate variability as a marker of biologic vulnerability. Its goal will be accomplished through analyses of already collected data and, in some cases, banked blood, in the Women’s Health and Aging Study I.

Role: Co - Investigator

Research Grant Participation – Completed (continued)

“Alzheimer's Disease Research Center, Data Core C (ADRC),” 04/01/05 – 03/31/10
NIH/NIA

Marilyn Albert/Karen Bandeen-Roche, 5%

The aims are to coordinate and integrate all aspects of data management for ADRC, to provide statistical support and expert statistical consultation for all projects associated with ADRC, and to develop novel methods of analysis for studying progressive cognitive decline and dementia among old individuals.

Role: Core Leader

“Low Vision Devices and Rehabilitation Services: Effects of Third Party Payment,” 01/01/08 / 12/31/09

NEI

Massof, 2%

The major goals of the project are to complete developmental work necessary to design a multicenter, randomized controlled trial to measure patient-centered effectiveness, cost-effectiveness, and treatment plan effects of a low vision rehabilitation intervention.

Role: Co – Investigator

“Who Drives Safely? Visual/Cognitive Predictors in Elders,” 09/30/04 – 7/31/09

NIA

Sheila West, 10%

This study will provide critical data on the interactive role of vision, visual attention, and cognition in changing older persons driving behaviors, and the resulting effect on driver errors and risk of crashes.

Role: Co-investigator

“Epidemiology of Personality Disorders,” 05/01/05 – 02/28/09 NIMH

Gerald Nestadt, 7%

The overall goal of the project is to enhance knowledge about the structure of different conceptualizations of personality, their relationships to normal personality and psychopathology, and their association with measures of disability, and selected risk factors, including genetic polymorphisms.

Role: Co-investigator

“Intratesticular Testosterone and Spermatogenesis in Man,” 12/01/04 – 11/30/08

NIH/NICHD

Barry Zirkin, 8%

The major objectives of this project are to identify and quantify the androgen content of the human testis, to assess the bioavailability of intratesticular androgens, to experimentally determine the relationship between bioavailable intratesticular androgen concentration and spermatogenesis, and to examine the effect of testosterone replacement modalities on intratesticular bioavailable androgen concentration and on spermatogenesis in subfertile men.

Role: Co-investigator

Research Grant Participation – Completed (continued)

“Age, Lead Exposure and Neurobehavioral Decline,” 07/01/06 – 06/30/08

NIA

Brian Schwartz, 5%

The major goal of this project is to examine longitudinal relations amount tibia lead levels, volumetric measures by MRI of specific brain structures, white matter lesions as assessed by DTI and FLAIR imaging, and neurobehavioral function in a longitudinal study of former organolead manufacturing workers and matched community controls.

Role: Co-Investigator

“Older Americans Independence Center,” 05/01/03 – 05/31/08

NIH/NIA

Linda Fried, 20%

The Center is dedicated to developing the next generation of research to determine the causes and treatments for frailty in older adults.

Role: Director and Co-investigator of the Biostatistics Core

“Explaining Disparities in Cognitive Function in Seniors (On Campus),” 10/01/00-08/31/06

NIA

Brian Schwartz, 10%

To evaluate the role of lead exposure in mediating the effect of racial and residential disparities on adverse cognitive outcomes.

Role: Co-Investigator

“Risk Factors for Physical Disability in Aging Women,” 07/01/91-06/30/06

NIA

Linda Fried, 10%

Identify early decrements in physical functioning and to demonstrate whether these changes identify those at high risk of becoming disabled and/or predictive of future disability.

Role: Co-Principal Investigator

“Statistical Methods for Genetic Epidemiology,” 09/01/98-11/30/05

NIGMS

Karl Broman, 10%

The objective of this grant is to develop and implement new statistical methodology useful for genetic epidemiologic studies of complex chronic diseases such as cancer, coronary heart disease, allergy, as well as psychiatric illness

Role: Co-Investigator

“Statistics for Longitudinal Studies of Mental Health,” 07/01/97-07/31/03

NIMH

Scott Zeger, 15%

Supports a team of statisticians and mental health scientists to collaborate on the development of regression methods for outcomes collected in longitudinal studies of mental health services.

Role: Co-Investigator

Research Grant Participation – Completed (continued)

"Visual Impairment and Physical Disability in Older Persons," 12/15/98-11/30/03

NIA

Sheila West, 20%

To extend the Salisbury Eye Evaluation Study (SEE) by including two dynamic measures of visual function which laboratory studies suggest may be more closely related to certain aspects of physical disability, particularly those related to mobility.

Role: Co-Investigator

"Age, Lead, Exposure, and Neurobehavioral Decline," 09/01/00-08/31/03

NIH/NIA

W. Stewart, 10%

To study exposure to organic and inorganic lead over a 5-year period in order to assess risk factors and determine effects of lead on cognitive function, and on the nervous system.

Role: Co-Investigator

"Interventions for Visual Loss in Nursing Home Residents," 05/01/99-04/30/03

NIA

Sheila West, 5%

Comprises an intervention trial on visual impairment among nursing home residents. Control and intervention in nursing homes will be compared to determine the effectiveness of infraction cataract surgery and low visual aid provisions.

Role: Co-Investigator

"New Quantitative Methods for the Study of Changing Health in Older Adults," 04/01/97 – 03/31/99

The Brookdale Foundation

Karen Bandeen-Roche, 80%

To develop and validate regression methods for statistical analysis of multiple functioning measures collected in longitudinal studies of disability in older persons.

Role: Principal Investigator

ACADEMIC SERVICE

Department of Biostatistics

Fall Seminar Series	-1991
Fall Seminar Series	-1997
Admissions Committee	-1997-1998
Admissions Committee	-1999-2000
Subcommittee on Public Health Education	- 2003-present
Grand Rounds Seminars	- 2004-2005
Faculty Search Committee (Chair)	- 2006-2007

The Johns Hopkins Bloomberg School of Public Health

Committee on Affirmative Action Program, 1991-1996
 Dean's Working Group on Aging, 1997
 Ad Hoc Subcommittee on Student Environment, 2000
 Ad Hoc Committee on Behavioral Sciences, 2000-2001
 Ad Hoc Committee on the M.H.S. Program, 2001
 Search Committee, Cognitive Health and Aging Program, Department of Mental Hygiene, 2002
 Search Committee, Chair, Population & Family Health Sciences, 2002-3
 Academic Ethics Committee, 2004-2007
 Faculty Senate, 1994-1996; 2005-2007
 Dr. P.H. Subcommittee, 1997-2003; 2005-2007
 Appointments and Promotions Committee, 2007-2008
 Advisory Board, 2008-present
 Committee of the Whole, 2008-present
 Management Committee, 2008-present

The Johns Hopkins University

Provost's Committee on the Status of Women Academic Issues Subcommittee, 1993-94
 Search Committee, Dean, School for Advanced International Studies, 2011-12

PRESENTATIONS INVITED

"Source Apportionment with one Source Unknown." Mathematics in Chemistry Conference, College Station, Texas, October, 1989.

"Source Apportionment with one Source Unknown." The Joint Statistical Meetings, Washington, D.C., August 7, 1989.

"A Mixture Model for Compositional Aggregates." Bell Communications Research, Morristown, NJ, May 20, 1991.

Discussion, Ecosystem Assessment and Monitoring Session. Joint Meeting of the Biometric Society (ENAR), The Institute of Mathematical Statistics, and the American Statistical Association, Cincinnati, Ohio, March 24, 1992.

"Amateur Boxing and Changes in CNS Function: An Application of Spline Regression Modeling with Corrections for Errors in Reported Exposures." Meeting of the American Public Health Association (APHA), Washington, DC, November 9, 1992

"An Application of Spline Regression Modeling with Correction for Errors in Reported Exposures". EPA Conference on Statistics, Baltimore, MD, March 2, 1993.

Presentations Invited (continued)

"Modeling Multivariate Failure-Time Data, allowing for Multiple Levels of Clustering." Hershey Medical Center, Hershey, PA, April 26, 1993.

"Modeling Multivariate Failure-Time Data, allowing for Multiple Levels of Clustering." The Pennsylvania State University, State College, PA, April 27, 1993.

"Modeling Failure-time Associations in Data with Multiple Levels of Clustering." The Joint Statistical Meetings, San Francisco, August 12, 1993.

"Exposures and Disease Progression: A Generalized Functional Model with Regression Spline Fitting". The University of Iowa, Iowa City, IA, April 4, 1994.

"Exposures and Disease Progression: A Generalized Functional Model with Regression Spline Fitting". The University of Helsinki, Helsinki, Finland, May 16, 1994.

"Modeling Association in Multivariate Survival Models." Meetings of the East/North American Region of the Biometric Society, Birmingham, Alabama, March 27, 1995.

"Studying Association in Multivariate Failure-Time Data." Southern Regional Council on Statistics Summer Research Conference, Melbourne, Florida, June 12, 1995.

"Data Summary: Before, During, or After Analysis? Challenges to Tracking Multiple Measurements Over Time." Joint Meetings of the Institute of Mathematical Statistics and the Statistical Society of Canada, Montreal Canada, July 11, 1995.

"Design to Diagnosis: A Model Based Approach to Analyzing Multiple Indicator Outcomes." Spring Meeting of the Eastern North American Region of the Biometric Society, Richmond, Virginia, March 20, 1996.

"Association Modelling in Multivariate Failure Time Data, With Marginal Regression Specification." University of Minnesota, Minneapolis, MN, April 2, 1996.

"Association Modelling in Multivariate Failure Time Data, With Marginal Regression Specification." Rice University, Houston, Texas, April 8, 1996.

"Association Modelling in Multivariate Failure Time Data, With Marginal Regression Specification." Annual Meeting of the Statistical Society of Canada, Waterloo, Ontario, June 4, 1996.

Discussion, Multivariate Survival Analysis session, The Joint Statistical Meetings, Chicago, IL, August 7, 1996.

"Multivariate Failure-Time Analysis with Marginal Regression Specification." Fourth World Congress of the Bernoulli Society, Vienna, Austria, August 26-31, 1996.

Presentations Invited (continued)

- "Longitudinal Latent Variable Regression for Multiple Disability Outcomes: The Women's Health and Aging Study." The Gerontological Society of America, 49th Annual Scientific Meeting, Washington, D.C., November 18, 1996.
- "Toward Alleviating Disability: New Quantitative Methods for the Study of Changing Health in Older Adults." Brookdale National Fellowship Retreat, Teaneck, New Jersey, April 26, 1997.
- "Quantitative Methods for Analyzing Multiple Indicators of Functioning in Older Adults." Clinical, Social, and Scientific Foundations of Geriatric Medicine, Johns Hopkins Bayview Medical Center, August 19, 1997.
- "New Quantitative Methods for the Study of Changing Health in Older Adults." Center for Policy Research, Syracuse University, October 9, 1997.
- "On Analyzing Longitudinal Changes in Multiple Measurements." Brown University, October 27, 1997.
- "On Analyzing Longitudinal Changes in Multiple Measurements." University of Connecticut, October 29, 1997.
- "On Measuring Early Disability in Older Women." Gerontological Society of America, Cincinnati, Ohio, November 16, 1997.
- "Data Summary Before, During and After: A Methods Case Study." Gerontological Society of American, November 16, 1997
- "How Do Risk Factors Affect Self-repeated Functioning? A Methods Case Study." Brookdale National Fellowship Retreat, Teaneck, New Jersey, April 25, 1998.
- "Analyzing Longitudinal Changes in Multiple Measurements: A Latent Structure Approach." Conference on Integrating Statistical Methods with Prevention Research and Programs, Johns Hopkins University, May 14, 1998.
- "Analyzing Longitudinal Changes in Multiple Measurements." University of Maryland, October 8, 1998.
- "Phenotype of Frailty: Characterization in the Women's Health and Aging Studies." Meeting of the Gerontologic Society of America. Philadelphia, Pennsylvania, November 22, 1998.
- "Modeling Multivariate Failure Time Associations in the Presence of Competing Risk." Spring meeting of the Eastern North American Region of the Biometric Society (ENAR), Atlanta, Georgia, March 29, 1999.

Presentations Invited (continued)

- “Toward Alleviating Disability: New Quantitative Methods for the Study of Changing Health in Older Adults.” Brown University, December 9, 1999.
- “Using Self-Reported Outcomes to Assess the Determinants of Health: Challenges and Proposals.” Albert Einstein College of Medicine, December 18, 2000.
- “Distinguishing Longitudinal Changes in Underlying Status from Changes in Measured Status.” Spring meeting of the Eastern North American Region of the Biometric Society (ENAR), Charlotte, North Carolina, March 26, 2001.
- “Distinguishing Variation in Underlying Status from Variation in Measured Status.” Department of Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, Pennsylvania, May 30, 2001.
- “Diagnosing Hierarchical Models for Violations of Underlying Assumptions.” Division of Biostatistics, Department of Epidemiology and Public Health, Yale University, New Haven, Connecticut, September 18, 2001.
- “Latent Variable Analysis of the Association Between IGF-1 Levels and Functioning.” Meeting of the Gerontologic Society of America, Chicago, Illinois, November 15, 2001.
- “Methods to Dissect the Role of Comorbidity Risk Factors in the Disablement Process.” Meeting of the Gerontologic Society of America, Chicago, Illinois, November 15, 2001.
- “Assessment of Post-Traumatic Distress Disorder.” Biostatistics Grand Rounds, Department of Biostatistics, The Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, May 1, 2002.
- “Empirical Latent Variable Modeling: Illuminating Interpretation with Literal Variables.” Meeting of the Society for Prevention Research, Seattle, Washington, May 30, 2002.
- “Empirical Latent Variable Modeling.” Joint Statistical Meetings, New York, New York, August 12, 2002.
- “Dissecting the Role of Comorbidity Risk Factors in the Disablement Process.” Clinical, Social, and Scientific Foundations of Geriatric Medicine, Division of Geriatrics, Johns Hopkins Medical Institutions, Baltimore, Maryland, August 27, 2002.
- “On Diagnosing the Assumptions of Latent Variable Models.” Department of Measurement and Statistics, University of Maryland, College Park, MD, February 10, 2003.
- Discussion, “Random Effects, Priors and Graphs: A 360-Degree View of Hierarchical Models.” Spring Meeting of the International Biometric Society, Eastern North American Region (ENAR), Tampa, FL, April 1, 2003.

Presentations Invited (continued)

- “On the Specification of Latent Variable Models.” Department of Biostatistics, Harvard School of Public Health, Harvard University, Boston, MA, April 10, 2003.
- “On the Specification of Latent Variable Models.” Department of Biostatistics, University of Wisconsin, Madison, WI, May 9, 2003.
- “On the Measurement of Hypothetical Health Constructs.” ACISR Meeting, Department of Psychiatry, University of Pennsylvania, PA, September 13, 2004.
- “Strengths, Value and Pitfalls with the Use of Modern Statistical Procedures.” ITV Best Practices Meeting, Washington, DC, October 12, 2004.
- “On the Next Generation of Frailty Measures: Unification of Physiologic and Clinical Manifestations.” Meeting of the Gerontological Society of America, Washington, DC, November 20, 2004.
- “Delineating the Possible Mechanisms Underlying Longitudinal Associations in Observational Studies on Aging.” Meeting of the Gerontological Society of America, Washington, DC, November 22, 2004.
- “On tracking self-reported disability: Distinguishing Changes in Underlying Status from Changes in Measured Status.” Dementia Consortium, The Johns Hopkins Medical Institutions, Baltimore, MD, January 10, 2005.
- “On the Targets of Latent Variable Estimation.” Department of Biostatistics, Medical College of Wisconsin, Milwaukee, WI, April 19, 2005.
- “Geronmetrics: Advancing the Next Generation of Discovery.” Gerontology Program, Miami University, Oxford, OH, December 8, 2005.
- “On the Targets of Latent Variable Estimation.” Department of Mathematics and Statistics, Miami University, Oxford, OH, December 8, 2005.
- “Alliance for Aging Research: Biomarkers of Aging Initiative.” Kronos Science Laboratories, Phoenix, AZ, December 21, 2005.
- “Geronmetrics: Advancing the Next Generation of Discovery.” Geriatrics Center and Institute of Gerontology, University of Michigan, Ann Arbor, MI, January 12, 2006.
- “What Analysis Can’t Fix: Why Retention is So Critically Important.” 2nd International Conference on Frailty, Montreal, QC, March 18, 2006.

Presentations Invited (continued)

- “Discussion: Recent Advances in Analysis for Multivariate Failure-time Data.” International Biometric Society, Eastern North American Region (ENAR), Annual Spring Meeting, Tampa, FL, March 27, 2006.
- “Latent Variables: Truth, Lies, and Everything Between.” Department of Biostatistics, Johns Hopkins University, Baltimore, MD, April 21, 2006.
- “Alliance for Aging Research: Biomarkers of Aging Initiative.” Milken Institute Pre-Conference on Aging, Santa Monica, CA, April 22, 2006.
- “Measuring Aging: How will we know when Interventions Work?” Huffington Center on Aging, Baylor College of Medicine, Houston, TX, May 1, 2006.
- “Longitudinal Analysis—Better than Ezra: Using Nehemiah as his own Control.” Older Americans Independence Center, University of Michigan, Ann Arbor, MI, June 1, 2006.
- “Measuring Aging: How will we know when Interventions Work?” Biomarkers Briefing, Boston, MA, July 21, 2006.
- “Latent Class Measurement of Frailty and Dysregulation in Older Adults.” Joint Statistical Meetings, Seattle, WA, August 9, 2006.
- “An Introduction to Latent Variable Models.” ABACUS Seminar Series, National Institute on Aging, Baltimore, MD, December 6, 2006.
- “Longitudinal Analysis—Better than Ezra: Using Nehemiah as his own Control.” Center on Aging and Health, Johns Hopkins University, Baltimore, MD, December 11, 2006.
- “The Role of Assumptions in Latent Variable Model Estimation : Elucidation and Tuning.” Department of Epidemiology and Biostatistics, Memorial Sloan-Kettering Cancer Center, New York, NY, May 30, 2007.
- “Hybrid Latent Class Measurement of Health States Lacking a Gold Standard.” International Biometric Society, Eastern North American Region (ENAR), Annual Spring Meeting, Atlanta, GA, March 13, 2007.
- “Longitudinal Analysis Better than Ezra: Using Nehemiah as his own Control.” Center on Aging and Health Biostatistics Grand Rounds, Johns Hopkins Medical Institutions, Baltimore, MD, May 10, 2007
- “The Role of Assumptions in Latent Variable Model Estimation: Elucidation and Tuning.” Memorial Sloan-Kettering Cancer Center, New York NY, May 30, 2007.

Presentations Invited (continued)

"Meta-Analysis at the Individual Level: Synthesis of Inferences Across Multiple Gerontological Databases." Joint Statistical Meetings, Salt Lake City, UT, July 29, 2007.

"Measuring Aging: How will we know when Interventions Work? AFAR Grantee Conference, New York, NY, October 1, 2007.

"The Role of Assumptions in Latent Variable Model Estimation: Elucidation and Tuning." New England Research Institutes, Boston, MA, October 31, 2007.

"An Introduction to Latent Variable Models." ABACUS Seminar Series, National Institute on Aging, Baltimore, MD, November 28, 2007

"Statistical Challenges in the Study of Aging and Dementia." Seminar in Aging, Cognition and Neurodegenerative Disorders, The Johns Hopkins Medical Institutions, Baltimore, MD, December 11, 2007

"Measuring Aging: How will we know when Interventions Work? Glaxo Smith Kline, Durham, NC, December 18, 2007.

"Improved Measurement Modeling and Regression with Latent Variables" Department of Biostatistics and Computational Biology, University of Rochester, April 3, 2008.

"Measuring Aging: How Will We Know When Interventions Work?" Clinical Research Grand Rounds, Welch Center, JHU, Baltimore, MD, May 28, 2008.

"A Tale of Two Cores: Biostatistics in Aging at JHU" Joint Statistical Meetings, Denver, Colorado, August 4, 2008.

"Latent Variables in Science: Three Vignettes" Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, September 17, 2008.

"Latent Variable-Based Study of Gerontological Constructs: Advancing the Next Generation of Discovery in Aging" Annual Meeting of the Gerontological Society of America National Harbor, MD, November 24, 2008.

"Latent Variable Modeling to Predict Frailty in Older Women's Health Research Symposium" Johns Hopkins Medical Institutions, Baltimore, MD, May 6, 2009.

"Latent Variable-Based Study of Gerontological Constructs: Advancing the Next Generation of Discovery in Aging" Geriatrics Grand Rounds, Department of Medicine, Johns Hopkins University, Baltimore MD, July 2, 2009.

Presentations Invited (continued)

“Meta-Analysis at the Individual Level: *Synthesis of Inferences across Multiple Gerontological Databases*” Geriatrics Grand Rounds, Department of Medicine, Johns Hopkins University, Baltimore MD, April 8, 2010.

“Introduction to Causal Inference in Clinical Research.” Johns Hopkins University / University of Maryland Pepper Centers Symposium: Clinical and Comparative Effectiveness Research. University of Maryland, Baltimore MD, May 24, 2010.

“Getting a Job in Academia: How to Find One, How to Apply, and How to Interview” (joint with Lance A. Waller). Webinar, International Biometric Society/Eastern North American Region (ENAR), November 15, 2010.

“Multi-Stage Latent Class Regression with Accommodation for Differential Item Functioning.” University of Michigan, Ann Arbor, MI, March 31, 2011.

“Multi-Stage Latent Class Regression with Accommodation for Differential Item Functioning.” University of Maryland, School of Medicine, Baltimore, MD, April 5, 2011.

“Multi-Stage Latent Class Regression with Accommodation for Differential Item Functioning.” Research in Progress Grand Rounds, Johns Hopkins University, Asthma and Allergy Center, Baltimore, MD, April 7, 2011.

“Multi-Stage Latent Class Regression with Accommodation for Differential Item Functioning.” Department of Statistical Sciences, Cornell University, Ithaca, NY, October 19, 2011.

“Multi-Stage Latent Class Regression with Accommodation for Differential Item Functioning.” Division of Cancer Epidemiology & Genetics, National Cancer Institute, Gaithersburg, MD, December 9, 2011.

“Multi-Stage Latent Class Regression with Accommodation for Differential Item Functioning.” Fred Hutchinson Cancer Research Center, Seattle, WA, May 9, 2012.

“Multi-Stage Latent Class Regression with Accommodation for Differential Item Functioning.” Department of Biostatistics, University of Washington, Seattle, WA, May 10, 2012.

PRESENTATIONS CONTRIBUTED

"A Mixture Model for Compositional Aggregates." The Joint Statistical Meetings, Atlanta, Georgia, August, 1991 "Hierarchy of Physical Disability: Supporting Evidence." Meeting of The Gerontological Society of America, Washington, DC, November 19, 1992.

“Modeling Failure-time Associations in Data with Multiple Levels of Clustering.” The Joint Statistical Meetings, San Francisco, August 12, 1993.

Presentations Contributed (continued)

- "Hierarchy of Disability: Prospective Support". Meeting of the Gerontological Society of America, New Orleans, November 19, 1993.
- "Exploratory Analysis for Association in Multivariate Survival Models". The Joint Statistical Meetings, Toronto, Canada, August 16, 1994.
- "Methods for Summarization of Disability Data." Annual Meeting of the American Public Health Association, Washington, D.C., November 2, 1994.
- "Challenges to Defining and Quantifying Dry Eye: SEE Project." Annual Meeting of the Association for Research in Vision and Ophthalmology, Fort Lauderdale, Florida, May 18, 1995.
- "Data Summary: Before, During, or After Analysis? Challenges to Tracking Multiple Measurements Over Time." Joint Meetings of the American Statistical Association, The Biometric Society, and the Institute of Mathematical Statistics, Orlando, Florida, August 16, 1995.
- "Multiple Disability Outcomes: Import of Summary to Characterizing Natural History." Meeting of the Gerontologic Society of America, Los Angeles, California, November 17, 1995.
- "On Analyzing Multiple Questionnaire Outcomes: A Methods Case Study." Joint Meetings of the American Statistical Association, The Biometric Society, and the Institute of Mathematical Statistics." Dallas, Texas, August 11, 1998.
- "Explicitly Longitudinal Latent Class Regression Analysis." International Biometric Society-ENAR Spring Meeting. Chicago, Illinois, March 22, 2000.
- "Measurement Stability in Longitudinal Latent Class Regression: Identification & Consequences." Joint Meetings of the American Statistical Association, The Biometric Society, and the Institute of Mathematical Statistics. Indianapolis, Indiana, August 13, 2000.
- "Delineating the Possible Mechanisms Underlying Longitudinal Associations in Observational Studies on Aging." Joint Statistical Meetings, San Francisco, California, August 5, 2003.
- "Analytic Issues in Delineating Mechanisms in a Complex Pathway." Annual Meeting of the Gerontological Society of America, San Diego, California, November 22, 2003.
- Discussion, "Analyzing Trajectories of Physical and Cognitive Function Before or After a Sentinel Health Event Among Older Women." Annual Meeting of the Gerontological Society of America, San Diego, California, November 24, 2003.

Presentations Contributed (continued)

“On the Study of Hypothetical Health Constructs.” Joint Statistical Meetings, Toronto, Ontario, August 9, 2004.

“On Bridging the Theory and Measurement of Frailty.” 2nd International Conference on Frailty, Montreal, QC, March 17, 2006.

“Improved Latent Variable-based Outcomes for Subsequent Regression Analysis” Methods and Applications in Modern Statistics Workshop to Celebrate David Ruppert, Keystone Resort, Colorado, June 1, 2008.

“Multi-Stage Latent Class Regression with Accommodation for Differential Item Functioning.” Joint Statistical Meetings, Miami, FL, August 4, 2011.