## June 4, 2014

#### **CURRICULUM VITAE**

#### Karen Bandeen-Roche

#### PERSONAL DATA

9016 Dunloggin Road Department of Biostatistics

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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 - Interim Chair

December 2008 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 - Interim Director

January 2012 Johns Hopkins Center on Aging and Health

Johns Hopkins Medical Institutions

Baltimore, MD 21205

September 2007- Acting Director

January 2008 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- Associate Professor

October 2002 Department of Biostatistics

The Johns Hopkins University Baltimore, Maryland 21205

August 1996 – Co-Director

April 2008 Epidemiology and Biostatistics of Aging Training Program

The Johns Hopkins Bloomberg School of Public Health

Baltimore, MD 21205

August 1990- Assistant Professor

December 1996 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 ACTIVITIES

#### POSITIONS 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 Institute of Mathematical Statistics

## **HONORS AND AWARDS**

2014	Yale Visiting Professor on Aging
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

\*Primary mentorship of a trainee in the work

- 1. **Bandeen-Roche K** and Ruppert D (1991). Source apportionment with one source unknown. <u>Chemometrics and Intelligent Laboratory Systems</u> 10:164-184.
- 2. 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.
- 3. 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.
- 4. 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. <u>Archives of Ophthalmology</u> 112:329-335.
- 5. 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. <u>Epilepsia</u> 35:974-987.
- 6. Rubin GS, **Bandeen-Roche K**, Prasada-Rao P, and Fried LP (1994) Visual Impairment and Disability in Older Adults. <u>Optometry and Vision Science</u> 71:750-760.
- 7. **Bandeen-Roche KJ** (1994). Resolution of Additive Mixtures into Source Components and Contributions: A Compositional Approach. <u>Journal of American Statistical</u> Association 89:1450-1458.
- 8. 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.
- 9. **Bandeen-Roche K**, Liang KY (1996). Modeling Failure-time Associations in Data with Multiple Levels of Clustering. <u>Biometrika</u> 83:29-39.
- 10. \*Hall C, Zeger SL, and **Bandeen-Roche K** (1996). Added Variable Plots for Cox's Proportional Hazards Model. Lifetime Data Analysis 2:73-90.
- 11. 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. <u>Journal of Clinical Epidemiology</u> 49:1089-1096.

## <u>Journal Articles</u> (continued)

- 12. 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. <u>Journal of Gerontology</u>, <u>Medical Sciences</u> 51A:M206-214.
- 13. 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. <u>Investigative Ophthalmology and Vision Science</u> 38(1):72-82.
- 14. 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. <u>Investigative Ophthalmology and Vision Science</u> 38(3):557-558.
- 15. 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. <u>Investigative Ophthalmology and Vision Science</u> 38(5):1003-1011.
- 16. 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.
- 17. **Bandeen-Roche K**, Munoz B, Tielsch JM, West SK, and Schein OD (1997). Self-Reported Assessment of Dry Eye in a Population-Based Setting. <u>Investigative Ophthalmology</u> 38(12):2469-2475.
- 18. **Bandeen-Roche K**, Miglioretti D, Zeger SL, and Rathouz P (1997). Latent Variable Regression for Multiple Discrete Outcomes. <u>Journal of the American Statistical Association</u> 92(440):1375-1386.
- 19. Schein OD, Munoz B, Tielsch JM, **Bandeen-Roche K** and West S (1997). Prevalence of Dry Eye Among the Elderly. <u>American Journal of Ophthalmology</u> 134(6):723-728.
- 20. Duncan DD, Munoz B, **Bandeen-Roche K**, West SK(1997). Assessment of Ocular Exposure to Ultraviolet-B for Population Studies. <u>Photochem and Photobiol</u> 66(5):701-709.
- 21. 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 Extremeties: The Women's Health and Aging Study. <u>Journal of Gerontology: Medical Sciences 2A:M275-M285</u>.

- 22. 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. <u>Journal of Rheumatology</u> 25:486-491.
- 23. \*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. <u>American Journal of Epidemiology</u> 147(8):764-773.
- 24. 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. <u>J Amer Acad Child and Adolescent Psych</u> 37(6):647-654.
- 25. West SK, Duncan DD, Munoz B, **Bandeen-Roche K**, et al. (1998). Sunlight Exposure and Risk of Lens Opacities in a Population Based Study. JAMA 280:714-718.
- 26. 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. <u>Journal of Clinical Epidemiology</u> 52:27-37.
- 27. \*Valbuena M, **Bandeen-Roche K**, Rubsin GS, Munoz B, and West SK (1999). Self-Reported Assessment of Visual Function in a Population-Based Setting. <u>Investigative Ophthalmology and Vision Science</u> 40:280-288.
- 28. 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. <u>Invest Ophthalmol Vis Sci</u> 40:858-864.
- 29. 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.
- 30. 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.
- 31. 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.

- 32. **Bandeen-Roche K**, Hall C, Stewart WF, Zeger SL (1999). Modeling Disease Progression in Terms of Exposure History. <u>Statistics in Medicine</u> 18:2899-2916.
- 33. <u>Journal Articles</u> (continued)
- 34. **Bandeen-Roche K**, Huang G-H, Munoz B, and Rubin GS (1999). On Determining Risk Factor Associations with Questionnaire Outcomes: A Methods Case Study. <u>Am J Epidemiol</u> 150:1165-1178.
- 35. Guralnik JM, Ferrucci L, Penninx BWJH, Kasper JD, Leveille SG, **Bandeen-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. <u>J Gerontol A Biol Sci Med Sci</u> 54:M410-M422.
- 36. Kasper JD, Shapiro S, Guralnik JM, **Bandeen-Roche KJ**, and Fried LP (1999). Designing a Community Study of Moderately to Severely Disabled Older Women: the Women's Health and Aging Study. <u>Ann Epidemiology</u> 9(8):498-507.
- 37. Carlson MC, Fried LP, Xue QL, **Bandeen-Roche K**, Zeger SL and Brandt J. (1999). Association Between Executive Attention and Physical Functional Performance in Community-Dwelling Older Women. <u>J Gerontol B Psychol Sci Soc Sci</u> 54(5):S262-S270.
- 38. Hirsch R, Guralnik GM, Geveille SG, Simonsick EM, Ling S, **Bandeen-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.
- 39. Fried LP, **Bandeen-Roche K**, Chaves PM, Johnson B (2000). Preclinical Mobility Disability Predicts Incident Mobility Disability in Older Women. <u>J Gerontol Med Sci</u> 55:M43-M52.
- 40. West SK, Munoz B, Istre J, Rubin GS, Friedman SM, Fried LP, **Bandeen-Roche K**, and Schein OD (2000). Mixed lens opacities and subsequent mortality. <u>Arch Ophthalmol</u> 118:393-397.
- 41. Gerring J, Brady K, Chen A, Quinn C, Herskovits E, **Bandeen-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.
- 42. Munoz B, West SK, Rubin GS, Schein OD, Quigley HA, Bressler SB, and **Bandeen-Roche K** (2000). Causes of blindness and visual impairment in a population of older Americans: The Salisbury Eye Evaluation Study. <u>Archives of Ophthalmology</u> 118:819-825.

## <u>Journal Articles</u> (continued)

- 43. Rubin GS, Munoz B, **Bandeen-Roche K**, and West SK (2000). Monocular versus binocular visual acuity as measures of vision impairment and predictors of visual disability. <u>Investigative Ophthalmology and Vision Science</u> 41:3327-3334.
- 44. 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. <u>Journal of the American Geriatrics Society</u> 48:1359-1366.
- 45. 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.
- 46. 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. <u>Investigative Ophthalmology and Visual Science</u> 42(1):64-72.
- 47. Simonsick EM, Kasper JD, Guralnik JM, **Bandeen-Rocke 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. <u>Journal of Gerontology Series B Psychological Sciences and Social Sciences</u> 56(1):S10-19.
- 48. 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. <u>Environmental Health Perspectives</u> 109(4):361-368.
- 49. Scott IU, Schein OD, Beuer WJ, Folstein MF, **Bandeen-Roche K** (2001). Emotional Distress in Patients with Retinal Disease. <u>American Journal of Ophthalmology</u> 131(5):584-589.
- 50. 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.
- 51. Cappola AR, **Bandeen-Roche K**, Wand GS, Volpato S, Fried LP. Association of IGF-I Levels with Muscle Strength and Mobility of Older Women. <u>Journal of Clinical Endocrinology and Metabolism</u> 86(9):4139-4146.
- 52. 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. <u>Annals of Internal Medicine</u> 135(12):1038-1046.

## <u>Journal Articles</u> (continued)

- 53. \*Huang GH, **Bandeen-Roche K**, Rubin GS (2002). Building Marginal Models for Multiple Ordinal Measurements. <u>Applied Statistics</u> 51(1):1-21.
- 54. \*Xue Q-L, **Bandeen-Roche K** (2002). Combining Complete Multivariate Outcomes with Incomplete Covariate Information: A Latent Class Approach. <u>Biometrics</u> 58(1):110-120.
- 55. 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.
- 56. 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. <u>Sleep</u> 25(3):307-314.
- 57. **Bandeen-Roche K**, Liang K-Y (2002). Modelling Multivariate Failure Time Associations in the Presence of a Competing Risk. <u>Biometrika</u> 89(2):299-314.
- 58. 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. <u>Investigative Ophthalmology and Vision Science</u> 43(8):2572-2578.
- 59. 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). <u>Journal of Gerontology: Social Sciences</u> 57(B):S355-S365.
- 60. 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. <u>Journal of the American Geriatric Society</u> 50(12):1947-1954.
- 61. Punjabi NM, **Bandeen-Roche K**, Young T (2003). Predictors of Objective Sleep Tendency in the General Population. <u>Sleep</u> 26(6):678-683.
- 62. 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. <u>Ophthalmic Epidemiology</u> 10(3):193-209.
- 63. 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.

- 64. 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. <u>Optometry and Vision Science</u> 81(5):298-307.
- 65. 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.
- 66. 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.
- 67. \*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.
- 68. \*Huang G-H, **Bandeen-Roche K** (2004). Latent Class Regression with Covariate Effects on Underlying and Measured Variables. <u>Psychometrika</u> 69(1):5-32.
- 69. 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.
- 70. 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. <u>Social Science and Medicine</u> 60(7):1583-1591.
- 71. 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. <u>Journal of Gerontology</u>, <u>Medical Sciences</u> 60(2):195-199.
- 72. 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.
- 73. \*Chen M-C, **Bandeen-Roche K** (2005). Diagnostics for Association in Bivariate Survival Models. <u>Lifetime Data Analysis</u> 11(2):245-264.
- 74. 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. <u>Journal of the American Statistical Association</u> 100(3):1054-1076.

- 75. 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. <u>Archives of Ophthalmology</u> 123(9):1242-1247.
- 76. 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. <u>Archives of Ophthalmology</u> 123:1581-1587.
- 77. Freeman EE, Egleston BL, West SK, **Bandeen-Roche K**, Rubin G (2005). Visual acuity change and mortality in older adults. <u>Investigative Ophthalmology and Vision Science</u> 46(11):4040-4045.
- 78. 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. <u>Investigative Ophthalmology and Vision Science</u> 47(1):65-71.
- 79. 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. <u>American Journal of Epidemiology</u> 163(5):467-468.
- 80. 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. <u>Arthritis and Rheumatism</u> 55(2):256-263.
- 81. **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. <u>Journal of Gerontology Series A</u> 61(3):262-266.
- 82. Congdon NG, Broman AT, **Bandeen-Roche K**, Grover D, Quigley HA (2006). Central corneal thickness and corneal hysteresis associated with glaucoma damage. <u>American Journal of Ophthalmology</u> 141(5):868-75.
- 83. 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. <u>Diabetes Care</u> 29(7):1632-7, 2006.
- 84. 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. <u>Epidemiology</u> 17(5):538-44.

- 85. 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.
- 86. Rao KD, Peters DH, **Bandeen-Roche K** (2006). Towards patient-centered health services in India—a scale to measure patient perceptions of quality. <u>International Journal for</u> Quality in Health Care 18(6):414-21.
- 87. 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. <u>Investigative Ophthalmology and Visual Science</u> 48(4):483-91.
- 88. Weiss CO, Fried LP, **Bandeen-Roche K** (2007). Exploring the hierarchy of mobility performance in high-functioning older women. <u>Journal of Gerontology: A Biological Sciences and Medical Sciences</u> 62(2):167-73.
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## Peer-reviewed Chapters

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- 2. Bandeen-Roche K (2014). Familial studies in <u>Handbook of Survival Analysis</u> by John P. Klein, Hans C. van Houwelingen, Joseph G. Ibrahim, Thomas H. Scheike CRC Press/Taylor & Francis Group, LLC, 549-570.

## Chapters

1. Guralnik JM, Fried LP, Simonsick EM, Bandeen-Roche K, and Zeger SL (1995). Screening the Community-Dwelling Population for Disability. In <u>The Women's Health and Aging Study: Health and Social Characteristics of Older Women with Disability</u>, pp 9-18, National Institutes of Health/National Institute on Aging #95-4009.

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- 3. Chu A, Maffeo CE, Lo A, Morganstein D, Bandeen-Roche K, Kasper J, Brock DB (1995). In <u>The Women's Health and Aging Study: Health and Social Characteristics of Older Women with Disability</u>, pp 9-18, National Institutes of Health/National Institute on Aging #95-4009.

## **Book Review**

1. Bandeen-Roche K. Review of <u>Quality Control in Analytical Chemistry</u>, 2nd. Ed., G. Kateman and L. Buydens, Authors, Wiley: New York 1993. <u>Technometrics</u> 37(1):115-116 (1995).

#### Other Articles

- 1. Atlas D and Bandeen-Roche K (2004). William Reid Bandeen: 1926-2004. <u>Bulletin of the American Meteorological Society</u> 85(10):1604-1604.
- 2. Newmyer T, and Bandeen, K. A Statistical Analysis of Attitudes toward S.D.A. Education in Southwestern Michigan, Andrews University, 1985.
- 3. Rabin D, Bandeen K, Meier D and Luckey M: Ultrasonic Velocity in the Patella-a new Technique to diagnose Osteoporosis, National Institutes of Health. Presented at the 1988 American Fertility Society Meeting, October 10, 1988, in Atlanta.

June 4, 2014

#### **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

Kathyrn 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

## <u>Preliminary School Oral Examinations</u> (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

## <u>Preliminary School Oral Examinations</u> (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-Akuamoa, 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

David Swedler, Ph.D., Health Policy and Management, 2012

Bonnie Sceurman Swenor, Ph.D., Epidemiology, 2012

Laura Zheng, Ph.D., Environmental Health Sciences, 2013

Trang Nguyen, Ph.D., Health Behavior and Society, 2013

Dolly Chang, Ph.D., Epidemiology, 2012

Jeongyong Kim, Ph.D., Biostatistics, 2013

Ruben Miozzo, Ph.D. Graduate Training Program in Clinical Investigation, 2013

Samuel Shilcutt, Ph.D., International Health, 2013

Christopher Kaufmann, Ph.D. Mental Health, 2013

Therri Usher, Ph.D., Biostatistics, 2014

Amber Willink, Ph.D., Health Policy and Management, 2014

#### 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

## <u>Final Oral Examinations/Thesis Reader</u> (continued)

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-Salvers, Maternal and Child Health, 1998

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

Oian-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 Travison, 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

#### Final Oral Examinations/Thesis Reader (continued)

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

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

Sachiko Kuwabara, Ph.D., Mental Health, 2012

Ann Zenobia Moore, Ph.D., Epidemiology, 2012

Megan Salter, Ph.D., Epidemiology, 2012

Lamprea-Montealegre, Epidemiology, 2012

Jennifer Deal, Ph.D., Epidemiology, 2013

## <u>Final Oral Examinations/Thesis Reader</u> (continued)

Dolly Chang, Ph.D., Epidemiology, 2013 Bonnie Sceurman Swenor, Ph.D., Epidemiology, 2013 Morgan Grams, Ph.D., Epidemiology, 2013 Katia Reinert, Ph.D., Nursing, 2014

## 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)

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

Jeongyong Kim, Ph.D., Biostatistics, In progress

#### **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

Minsun Park, Master degree student, Biostatistics, 2013-present

#### **Classroom Instruction**

#### 1990-1991

Biostatistics 140.643 - Applied Multivariate Statistics I

#### 1991-1992

Biostatistics 140.650 - Methods in Biostatistics I
Biostatistics 140.651 - Methods in Biostatistics II

## <u>Classroom Instruction</u> (continued)

## 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

#### 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

## Classroom Instruction (continued)

## 2000-2001

Biostatistics 140.653 - M Biostatistics 140.654 - M

Methods in Biostatistics IIIMethods in Biostatistics IV

## 2001-2002

Biostatistics 140.653 Biostatistics 140.654 Methods in Biostatistics IIIMethods in Biostatistics IV

## 2002-2003

Biostatistics 140.621 Biostatistics 140.622 Statistical Methods in Public Health IStatistical Methods in Public Health II

#### 2003-2004

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

## 2004-2005

Biostatistics 140.621 Biostatistics 140.622 Biostatistics 140.623 Statistical Methods in Public Health IStatistical Methods in Public Health IIStatistical Methods in Public Health III

#### 2005-2006

Biostatistics 140.653 Biostatistics 140.654 Methods in Biostatistics IIIMethods in Biostatistics IV

## 2006-2007

Biostatistics 140.653 Biostatistics 140.654 Methods in Biostatistics IIIMethods in Biostatistics IV

## 2007-2008

Biostatistics 140.653 Biostatistics 140.654 - Methods in Biostatistics III

- Methods in Biostatistics IV

# <u>Classroom Instruction</u> (continued)

## 2008-2009

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

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

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

## 2011-2012

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

# 2012-2013

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

# 2013-2014

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

## **RESEARCH GRANT PARTICIPATION – CURRENT**

"Older Americans Independence Center," 07/01/13 - 06/30/18 NIH/NIA

Jeremy Walston/Karen Bandeen-Roche, 18%

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

## Research Grant Participation – Current (continued)

"Johns Hopkins Alzheimer's Disease Research Center (ADRC)," 04/01/10 – 03/31/15 NIH/NIA

Marilyn Albert, 9.5%

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: Co-Investigator

"Memorandum of Understanding: For a Joint Initiative Between the Parties," 10/01/06-06/30/14 Geisinger Health Systems

Brian Schwartz, 5%

This project seeks to delineate BMI trajectories with children's growth from ages 3 to 18, and to study the physiological and environmental determinants of variation in these, using comprehensive electronic health record data from the Geisinger Health Care System.

Role: Co-Investigator

"Advancing stated-preference methods for measuring the preferences of patients with type 2 diabetes," 07/01/13-06/30/16

**PCORI** 

John Bridges, 5%

This project aims to advance and disseminate methods for patient and stakeholder engagement in patient-centered outcomes research. Applying the principles of community-based participatory research, we address several methodological gaps associated with stated-preferences methods in a project that it focused at understanding the priorities and preferences of patients with type 2 diabetes.

Role: Co-Investigator

"Institutional Clinical and Translation Science Award," 09/26/13 – 04/30/18

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

"1 of 5 ARIC Neurocognitive Study (ARIC-NCS)," 07/07/10-04/30/15 NIH/NHLBI

Coresh, 10%

Dementia has a high prevalence in the U.S., particularly in African-Americans. The Atherosclerosis Risk in Communities Neurocognitive Study (ARIC-NCS) will add a neurocognitive assessment 24 years following the ARIC baseline exam conducted on 15,792 African-American and white residents aged 45-64. We aim to help elucidate factors underlying ethnic disparities in dementia burden and provide the scientific basis for prevention strategies by identifying vascular therapeutic targets, optimal timing for interventions and useful intermediate outcomes.

Role: Co-Investigator

#### RESEARCH GRANT PARTICIPATION - COMPLETED

"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

"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

"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

"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

Bandeen-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

## <u>Research Grant Participation – Completed</u> (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 intractesticular bioavailabile androgen concentration and on spermatogenesis in subfertile men.

Role: Co-investigator

# <u>Research Grant Participation – Completed</u> (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

# <u>Research Grant Participation – Completed</u> (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, 2002-2003

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

Committee to Review the Department of Health Policy and Management (Chair), 2011-2012

# The Johns Hopkins University

Provost's Committee on the Status of Women Academic Issues Subcommittee, 1993-1994 Search Committee, Dean, School for Advanced International Studies, 2011-2012

#### External

External Advisory Board, Older Americans Independence Center, Duke University, 2007-present

External Review, Proposal for Graduate Program in Biostatistics, Vanderbilt University, 2010

External Review, Department of Statistics, University of Kentucky, 2012

External Advisory Board, Older Americans Independence Center, University of Maryland, 2012-present

External Advisory Board, Clinical and Translational Sciences Institute, The Pennsylvania State University, 2012-present

External Review, Department of Biostatistics, University of Washington, 2013

External Review, Department of Biostatistics & Informatics, University of Colorado, 2013

External Review (Chair), Department of Biological Statistics and Computational Biology, Cornell University, 2014

#### 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.
- "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.
- "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.
- "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.
- "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." 2<sup>nd</sup> International Conference on Frailty, Montreal, QC, March 18, 2006.
- "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.
- "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 Vaiables" 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.
- "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 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.

- "Latent Variables in Science: Three Vignettes. Keynote lecture, 10th Anniversary of Applied Statistics." West Chester University of Pennsylvania, West Chester, PA, May 18, 2012.
- "Differential Item Functioning: When Does it Matter?" Joint Statistical Meetings, San Diego, CA, July 29, 2012.
- "Meta-Analysis at the Individual Level: Combining Inferences across Multiple Gerontological Databases. Keynote Lecture, Measurement and Statistics Interest Group." Annual Meeting of the Gerontological Society of America, San Diego, CA, November 16, 2012.
- "On the Accommodation of Differential Item Functioning in Latent Class Regression." Universita Bocconi, Milan, Italy, April 11, 2013.
- "The Prevention and Detection of Differential Measurement Biases in Analyses of Multiply Measured Outcomes." Joint Statistical Meetings, Montreal, QC, Canada, August 5, 2013.
- "A New View on Frailty Phenotype Refinement: Can Simplification Be Achieved without Loss of Syndrome Measurement Validity?" Annual Meeting of the Gerontological Society of America, New Orleans, LA, November 23, 2013.
- "On the Accommodation of Differential Item Functioning in Latent Class Regression." The University of Texas Health Science Center at Houston, Houston, Texas, March 7, 2014.
- "Frailty of Older Adults: Physiology, Ascertainment and National Scope." University of Rochester Medical Center, Rochester, NY, April 4, 2014.
- "On the Accommodation of Differential Item Functioning in Latent Class Regression." Albert Einstein College of Medicine, New York, New York, June 20, 2014.

#### 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.
- "Hierarchy of Disability: Prospective Support". Meeting of the Gerontological Society of America, New Orleans, November 19, 1993.

#### Presentations Contributed (continued)

- "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, May18, 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.
- "On the Study of Hypothetical Health Constructs." Joint Statistical Meetings, Toronto, Ontario, August 9, 2004.

- "On Bridging the Theory and Measurement of Frailty." 2<sup>nd</sup> 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.