

Last Revised: *May 15, 2020*

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

Bachelor of Arts, Mathematics
University of Colorado
Boulder, CO, 1978

Graduate

Master of Arts, Mathematics
University of Kansas
Lawrence, KS, 1981

Doctor of Philosophy, Biometrics (Minor in Physiology)
University of Colorado Health Sciences Center
Denver, CO, 1987

APPOINTMENTS AND POSITIONS

Academic

- 2006-present Professor of Biostatistics. University of Pittsburgh Graduate School of Public Health.
- 2014-present Professor, Clinical and Translational Science Institute. University of Pittsburgh School of Medicine.
- 1997 - 2006 Associate Professor of Biostatistics. University of Pittsburgh Graduate School of Public Health. Tenure granted in the Department of Biostatistics, September, 1997.
- 1989 - 1997 Assistant Professor of Biostatistics. University of Pittsburgh Graduate School of Public Health.
- 1983 - 1987 Teaching Assistant for graduate level courses including applied and mathematical statistics. University of Colorado Health Sciences Center and University of Colorado at Denver.
- 1982 - 1983 Instructor of Mathematics. Calculus and algebra. Denver Community College North and Red Rocks Community College.
- 1979 - 1981 Assistant Instructor. University of Kansas. Taught classes in

calculus, probability, and algebra to undergraduate students.

Non-Academic

- 1989-Present **Senior Statistician**. National Surgical Adjuvant Breast and Bowel Project. Provide statistical support in the design and analysis of clinical trials for breast and bowel cancers. Consult with physicians and other staff members in writing grants, statistical and numerical aspects of basic research. Over the years, have been the primary statistician for nine protocols involving over 10,000 patients. Designed two other protocols. Directed risk assessment system for NSABP Breast Cancer Prevention Trial and primary statistician for the Bone Mineral Density substudy of the BCPT. NSABP director of the Data Monitoring Committee meetings, 2000-present.
- 1987 - 1989 **Senior Statistician**. Ciba-Geigy Corp. Provided statistical support to one or more sub-divisions of the Research Department by participating in the design and analysis of both clinical and pre-clinical experiments, by collaborating on basic research projects and serving as a trainer and/or consultant to scientists at all organizational levels.
- 1983 - 1987 **Scientific Programmer**. University of Colorado School of Medicine. Maintained faculty and medical school admissions data bases and provided statistical analyses.

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

- Member of the Steering Committee of a World Clinical Trialists' Collaborative Group in Breast Cancer. Invited participant in Early Breast Clinical Trialists' Collaborative Group meetings, Oxford, England, September 1995, September 2000, September 2005, September 2006, June and September 2010. Elected to steering committee, September 2010.
- Member of the American Statistical Association, 1988-present
- Member of the Biometric Society (Eastern North American Region), 1990-present
- Member of the American Public Health Association
- Member of the American Society of Clinical Oncology, 2000-present
- Member of the Society for Clinical Trials, on and off, 1997-present
- Member of the American Association for the Advancement of Science, 2019

AWARDS

- Elected to the Delta Omega Society, University of Colorado School of Public Health, May 2018.

PROFESSIONAL ACTIVITIES

1. Teaching

a. Descriptions of Didactic Courses Taught

BIOST 241, 2041 Introduction to Statistical Methods 1 (Taught 1989 – 1997; 2006)

A survey course in applied statistics taught to first year graduate students in biostatistics, public health and to postgraduate medical fellows. Covers descriptive statistics, probability (axioms, counting, conditional probability, Bayes' theorem, normal, uniform, binomial and Poisson distributions), estimation and confidence intervals, one sample and two sample hypothesis testing for normally distributed data and for proportions, general introduction to one-way ANOVA, contingency tables, simple linear regression, correlation, and statistical packages (Minitab, SAS). Main text used: Rosner, Fundamentals of

Biostatistics, 7th ed, 2010. Also, *extensive class notes distributed*.

BIOST 242, 2042 Introduction to Statistical Methods 2 (Taught 1990 – 2002; 2015; 2016)

The second part of the sequence in biostatistics (complements BIOST 2041). Covers nonparametric methods, multiple linear regression, odds ratio, relative risk, logistic regression, Mantel-Haenszel procedure, methods in survival analysis (Kaplan-Meier, life table analyses), multiple comparisons procedures, general linear contrast, multi-way ANOVA (general fixed effects model, factorial design, interactions, randomized blocks, random effects models, repeated measures) and analysis of covariance. Texts used: Rosner, Fundamental of Biostatistics, 7th ed, 2010 and Daniel and Cross Biostatistics, 10th edition, 2013. Other book used recently: **Anderson SJ** Biostatistics: A Computing Approach 2011. *Extensive class notes distributed via Pitt Web*.

BIOST 2049 Applied Regression Analysis (Taught 1991)

A course in linear regression taught to graduate students in biostatistics, statistics and engineering. Covered matrix approach to regression, estimation theory, nonlinear models, discriminant analysis and regression diagnostics. Text used: Draper and Smith, Applied Regression Analysis, 2nd ed, 1981.

BIOST 2052 Multivariate Analysis (Taught 1999, 2001, 2003, 2005, 2008, 2010, 2012, 2017, 2019)

This course covers advanced topics in multivariate analysis including the multivariate normal distribution, estimation of the mean vector and the covariance matrix, distributions and uses of simple, partial and multiple correlation coefficients, the generalized T^2 statistic, the distribution of the sample generalized variance, multivariate analysis of variance and applications of multivariate methods to repeated measures analysis, principle components analysis, factor analysis, discriminant analysis and logistic regression. Theory and examples of James-Stein estimation, modern classification methods (K-means, regression trees and regularization) are given. The emphasis in the beginning of the course is on theory. Later, applications and computational methods are emphasized. Primary texts used Anderson An Introduction to Multivariate Statistical Analysis, 2nd edition, 1984; Mardia, K.V, Kent, J.J. and Bibby, J.M. Multivariate Analysis, Academic Press, 1979; In addition to the texts, *extensive class notes* are distributed by me.

BIOST 2096 (2075) Numerical Methods in Biostatistics (Taught 2003, 2005, 2007, 2009, 2013, 2017)

I initiated this course in our department in 2003. The purpose of the course is to familiarize the student with a wide range of numerical methods which are useful in biostatistical research. Both theory and implementation (usually in R) are emphasized. The following topics are covered: recurrence relations, power series and asymptotic expansions, generating pseudo-random deviates, basic simulation methodology, use of antithetic variables, importance sampling, solutions of nonlinear equations, Newton's method, vector and matrix norms, linear regression and matrix inversion, other topics in multivariate analysis, splines, finite-state Markov chains, Hastings-Metropolis algorithms and Gibbs sampling. Among the texts used for this course are Lange, Numerical Analysis for Statisticians, 2nd ed, Springer-Verlag, 2010 and Ross, Simulation, 5th ed, Academic Press, 2013. *Extensive class notes* are distributed.

BIOST 2062 (2090) Clinical Trials: Methods and Practice (Multiple Lectures in 2000 – 2005)

This course covers fundamental concepts in the design and conduct of modern clinical trials utilizing the web. I lectured on equivalence trials and crossover designs. This was a *team-taught* course.

BIOST 2086 Applied Mixed Models Analysis (Co-taught 2011)

Mixed model analysis provides an approach to modeling which allows one to relax the usual independence assumptions and take into account complicated data structures. In this course all types of mixed models are incorporated into a general framework and the practical implications of their use are considered. Topics include normal mixed models, generalized mixed models, and mixed models for categorical data, repeated measures data analysis and cross-over trials with mixed models. SAS and Stata for fitting mixed models are discussed. Text used: Brown, H and Prescott, R. Applied Mixed Models in Medicine, 2nd edition, 2006. Also, *extensive class notes distributed*.

BIOST 290 Special topics: Topics in Nonlinear Regression (Taught 1990; lectures in other years)

Special topics course in nonlinear regression taught to graduate students in biostatistics. Parameter estimation techniques, inference theory, properties of various nonlinear models, and special sections on smoothing splines and compartmental modeling were covered. Text used: Seber and Wild, Nonlinear

b. Graduate Student Dissertations and Theses Chaired by Me (My Primary Advisees)

Doctoral students (24)

1. Joanne Beer, **Ph.D.**, Dept of Biostatistics (Co-Chaired with Rob Krafty) – Graduated August 2018. Dissertation: “Predicting clinical variables from neuroimages with fused sparse group LASSO”, winner best dissertation
2. John Pleis, **Ph.D.** – Graduated August 2018. Dissertation: “Mixtures of discrete and continuous variables: considerations for dimension reduction”
3. Abraham Apfel, **Ph.D.** – Graduated June 2017. Dissertation: “Stability analysis of sparse K-means”
4. Andrew Potter, **Ph.D.** – Graduated April 2017. Dissertation: “Multiscale multivariate functional principal component analysis with an application to multivariate longitudinal cardiac signals”
5. Jia-Yuh (Lily) Chen, **Ph.D.** – Graduated June 2016. Dissertation: “Joint modeling of bivariate longitudinal and survival data in spouse pairs”
6. Beth Zamboni, **Ph.D.** – Graduated April 2015. Dissertation: “Twisted survival: identifying surrogate endpoints for mortality using QTWIST and conditional disease free survival”
7. Xiaoxue Li, **Ph.D.** – Graduated December 2014. Dissertation: “Time-varying coefficient gap time models for Ecological Momentary Assessment data”.
8. Yun Ling, **Ph.D.** – Graduated April 2014. Dissertation: “Influential observation detection for multilevel multivariate growth curve models”
9. Ji-in Choi, **Ph.D.** – Graduated August 2012. Dissertation: “Prediction in the Joint Modeling of Mixed Types of Multivariate Longitudinal Outcomes and a Time-to-Event Outcome”
10. Yoko Tanaka, **Ph.D.** – Graduated December 2010. Dissertation: "An adaptive two-stage dose-response design method for establishing proof of concept in drug development"
11. Folefac Atem, **Ph.D.** – Graduated August 2010. Dissertation: “Rationale for choosing an explicit correlation structure in a multilevel analysis with bivariate outcomes”
12. Xing Yuan, **Ph.D.** – Graduated December 2009. Dissertation: “A meta-analytic framework for combining incomparable Cox proportional hazard models caused by omitting important covariates”. Winner best dissertation in Department of Biostatistics.
13. Meredith (Lotz) Wallace, **Ph.D.** – Graduated August 2009. Dissertation: “Modeling missing covariate data and temporal features of time-dependent covariates in tree-structured survival analysis”
14. Fiona Callaghan, **Ph.D.** (Co-chaired with Joyce Chang) – Graduated April 2008. Dissertation: “Classification trees for survival data with competing risks”
15. L. Scott Dean, **Ph.D.** – Graduated April 2007. Dissertation: “A method for detecting optimal splits over time in survival analysis using tree-structured models”
16. Jia Li, **Ph.D.** – Graduated August 2006. Dissertation: “A strategy for stepwise regression procedures in survival analysis with missing covariates”
17. Feng-shou Ko, **Ph.D.** – Graduated August 2006. Dissertation: “Identification and assessment of longitudinal biomarkers using frailty models in survival analysis”
18. Michael B. McHenry, **Ph.D.** – Graduated June 2004. Dissertation: “New estimation approaches in survival analysis with Aalen’s additive risk model”. Winner of two ASA student travel awards.
19. Mary Kelley, **Ph.D.** – Graduated December 2003. Dissertation: “Zero inflation in ordinal data: applications of a mixture model”
20. Maria K. Mor, **Ph.D.** – Graduated April 2003. Dissertation: “A Bayesian group sequential approach for multiple endpoints”
21. Yanming Yin, **Ph.D.** – Graduated April 2002. Dissertation: “Tree-structured modeling for interval-censored survival data”
22. Wei Tian, **Ph.D.** - Graduated June, 1999. Dissertation: “Markov chain models for analyzing multivariate repeated categorical data with incomplete observations”
23. Sang Ahnn, **Ph.D.** – Graduated December 1994. Dissertation: "Sample size determination for comparing more than two survival distributions".
24. Lingshi Tan, **Ph.D.** – Graduated April 1993. Dissertation: "A multivariate growth curve model with random effects and CAR(1) errors", winner of a 1994 Biometrics Society (ENAR) student travel award

Masters Students (14)

25. Jason Mao, **M.S.**, Dept. of Biostatistics –Graduates December 2019. Thesis (defended 12/2/19): “The Effects of Misspecification of Submodels in Joint Modeling of Repeated Measures and Time-to-Event Outcomes” (Winner, best MS thesis, Dept of Biostatistics, 2019-2020.)
26. Natalie (Natasha) Sumetsky, **M.S.**, Dept. of Biostatistics – Graduated August 2017. Thesis: “Spatiotemporal modeling of opioid abuse and dependence outcomes using Bayesian hierarchical methods”
27. Megan Marron, **M.S.** – Graduated December 2014. Thesis: “Cross-validation in group-based trajectory

- modeling when assuming a censored normal model”
28. Jeff Borrebach, **M.S.** – Graduated April 2013. Thesis: “Comparisons between the Kaplan-Meier complement and the cumulative incidence for survival prediction in the presence of competing events”
 29. Shuting Yang, **M.S.** – Graduated April 2012. Thesis: “The effects of overstratification on the stratified log rank test for survival analysis”
 30. Eun-Jin Kim, **M.S.** – Graduated December 2011. Thesis: “Estimating the survival distribution for right-censored data with delayed ascertainment”
 31. Amy Perkins, **M.S.** – Graduated August 2010. Thesis: “Prediction accuracy of SNP epistasis models generated by multifactor dimensionality reduction and penalized logistic regression”
 32. Irina Karpova, **M.S.** – Graduated April 2006. Thesis: “Simulation of meta-analysis for assessing the impact of study variability on parameter estimates for survival data”.
 33. Weimin Gao, **M.S.** – Graduated December 2003. Thesis: “Statistical properties of tree-structured models for survival data”
 34. Michael B. McHenry, **M.S.** – Graduated April 2001. Thesis: “Analytic approach to the additive model for survival data using splines”
 35. Michael Young, **M.S.** – Graduated December, 1996. Thesis: “Serial correlation of heart rate and cardiac output as a statistical model after cardiac resuscitation”
 36. Penny Whiteman, **M.S.** – Graduated December 1996. Thesis: “Evaluation of power for time to event outcomes in complex clinical trials”
 37. Mary Kelley, **M.S.** – Graduated December 1995. Thesis: "Autocorrelation in models for longitudinal data: applications to psychiatry research"
 38. Lee Ann Boylestein, **M.S.** – Graduated April 1994. Thesis: "Comparison and evaluation of smoothing methods and their applications to toxicological bioassays". Winner of "Best Methodology Award" in presentation of her work at the Allegheny-Erie Regional Society 6th annual meeting.

c. Service as a Member on Other Masters and Doctoral Committees (86)

39. Janyao Wang, Ph.D. candidate, Dept of Biostatistics – Expected Graduation: April 2021
40. Jun Zhang, Ph.D. candidate, Dept of Biostatistics – Expected Graduation: June 2020
41. Tianyu (Terry) Ding, Ph.D. candidate, Dept of Biostatistics – Expected Graduation: June 2020
42. Marie Tuft, Ph.D. hopeful, Dept of Biostatistics – Expected Graduation: December 2020
43. Shu Wang, Ph.D, Dept of Biostatistics – Graduated April 2019
44. Avantika Srivastava, M.S, Dept of Biostatistics – Graduated April 2019
45. Xingyuan Li, Ph.D, Dept of Biostatistics – Graduated April 2019
46. ByungWon Kim, Ph.D, Dept. of Statistics – Graduated August 2018
47. Winston W. H. Eng, M.S, Dept. of Biostatistics – Graduated April 2018
48. Zhaowen Sun, Ph.D. candidate, Dept. of Biostatistics – Graduated: August 2017
49. Judah Abberbock, Ph.D. candidate, Dept. of Biostatistics – Graduated August 2017
50. Brian McGill, Ph.D. candidate, Dept. of Statistics – Graduates August 2017
51. Jenna Carlson, PhD, Dept. of Biostatistics – Graduated April 2017
52. Zhiguang (Caleb) Huo, PhD, Dept. of Biostatistics – Graduated April 2017
53. Jung-Yi Lin, MS, Dept. of Biostatistics – Graduated April 2017
54. Andrew Topp, Ph.D, Dept. of Biostatistics – Graduated: December 2016
55. Rachel Miller, Ph.D, Dept. of Epidemiology – Graduated August 2016
56. Michael Dunbar, Ph.D, Dept. of Psychology – Graduated: April 2016
57. Michael Zeleny, M.S, Dept. of Biostatistics – Graduated: April 2016
58. Xiaotian (Steven) Gao, M.S, Dept. of Biostatistics– Graduated: June 2015
59. Yu-Ting Weng, Ph.D, Dept. of Biostatistics– Graduated December 2014
60. Lei Ye, PhD, Dept of Biostatistics – Graduated December 2014
61. Wenjing Qi, PhD, Dept of Statistics – Graduated August 2014
62. Semhar Obagaber, Ph.D, Dept. of Biostatistics– Graduated: August 2014
63. John Kasckow, M.S, Dept. of Biostatistics – Graduated April 2014
64. Fanyin He, Ph.D, Dept. of Biostatistics – Graduated December 2013
65. Nicholas Soulakakis, Ph.D, Dept. of Epidemiology – Graduated August 2012
66. Jeong Youn Lim, Ph.D, Dept of Biostatistics – Graduated December 2011
67. Yenchih (Jesse) Hsu, Ph.D, Dept of Biostatistics – Graduated August 2011
68. Nicholas Christian, Ph.D, Dept of Biostatistics – Graduated August 2011
69. Chang Sook Hong, M.S, Dept of Biostatistics – Graduated April 2011
70. The Minh Luong, Ph.D, Dept of Biostatistics – Graduated December 2010
71. Okan Umit Elci, Dept of Biostatistics – Graduated December 2010
72. Jinhui Ko, Ph.D, Dept. of Biostatistics – Graduated August 2010

73. Nian Song Chok, M.S, Dept of Biostatistics – Graduated June 2010
74. Jia-Yuh Chen, M.S. Dept of Biostatistics – Graduated April 2009
75. Jeff Rohay, Ph.D, Dept of Biostatistics – Graduated December 2009
76. Dana Tudorascu, Ph.D, Dept of Biostatistics – Graduated June 2009
77. Bedda Rosario, Ph.D, Dept. of Biostatistics – Graduated December 2008
78. John Scott, Ph.D, Dept of Biostatistics – Graduated August 2008
79. Antonio Pacheco, Ph.D, Dept of Epidemiology – Graduated August 2008
80. Sangdae Han, Ph.D, Dept of Statistics (Arts & Sciences) – Graduated June 2008
81. Jennifer Lucado, MPH, Dept of Infectious Diseases and Microbiology – Graduated April 2008
82. Xiaojing Wang, Ph.D, Dept. of Epidemiology – Graduated August 2007
83. Qing Xu, Ph.D. , Dept. of Biostatistics – Graduated April 2007
84. Susan Bealko, MPH, Dept. of Environmental & Occ. Health – Graduated April 2007
85. Xiajing Wang, M.S, Dept. of Biostatistics – Graduated April 2007
86. Li Qin, Ph.D, Dept. of Biostatistics – Graduated April 2006
87. Andriy Bandos, Ph.D, Dept. of Biostatistics – Graduated June 2005
88. Qianyu Dang, Ph.D, Dept. of Biostatistics – Graduated June 2004
89. Kris Rupert, Dr.PH, Dept. of Biostatistics – Graduated June 2004
90. Zhewei Zhang, Ph.D, Dept. of Biostatistics – Graduated December 2003
91. Feng-shou Ko, M.S, Dept. of Biostatistics – Graduated April 2004
92. Earle Chambers, Ph.D, Dept. of Epidemiology – Graduated August 2003
93. Zekarias Berhane, Ph.D, Department of Biostatistics – Graduated April 2003
94. Hsiao-Yun (Shawn) Huang, Ph.D, Dept. of Statistics (Art and Sciences) – Graduated April 2003
95. Chad Rittle, M.P.H, Dept. of Environmental & Occ. Health – Graduated April 2003
96. Hsiao-Lan (Jenny) Wei, Ph.D, Department of Biostatistics – Graduated December 2002
97. Zdenek Valenta, Ph.D, Dept of Biostatistics – Graduated April, 2002
98. Wei Li, Ph.D, Dept of Biostatistics – Graduated June, 2002
99. Nancy Schmidt, Ph.D, Dept. of Epidemiology – Graduated April, 2002
100. Lynda Snyder, Ph.D, Dept. of BCHS – Graduated April, 2002
101. Jeffrey G. Schragin, M MPH, Dept. of Epidemiology – Graduated April, 2002
102. Paul Ricci, M.S, Dept. of Biostatistics – Graduated December, 2001
103. William Green, M.M.P.H, Dept of BCHS – Graduated December, 2001
104. Michael Okobia, M.P.H, Dept of Epidemiology – Graduated December, 2001
105. Wei Lang, Ph.D, Dept of Biostatistics – Graduated April, 2000
106. Wei Chen, Ph.D, Dept. of Biostatistics – Graduated April, 2000
107. Steven Koehler, Ph.D, Dept. of Epidemiology – Graduated April, 2000
108. Jiping Wang, M.S, Dept. of Biostatistics – Graduated April, 1999
109. Soh Kim, Ph.D, Department of Epidemiology – Graduated December, 1998
110. Steadman Scott Sankey, Ph.D. Dept. of Biostatistics – Graduated April, 1998
111. Fe-Na Chen, Ph.D, Dept. of Biostatistics – Graduated April, 1998
112. Danit Shahar, Ph.D, Department of Epidemiology – Graduated August, 1997
113. Anthony Robins, Ph.D, Department of Epidemiology – Graduated, April, 1997
114. Eunyoung Lee, Ph.D, Department of Biostatistics – Graduated December, 1996
115. Ed Gregg, Ph.D, Department of Epidemiology – Graduated June, 1996
116. Kimberly Forrest, M.P.H. Department of Biostatistics – Graduated June, 1996
117. Sung-Ryul Yoon, Ph.D, Department of Environmental & Occ. Health – Graduated May, 1996
118. Sergio da Silva, Ph.D, Dept. of Physical Education (Exercise Physiology) – Graduated October, 1995
119. James Dignam, Ph.D, Dept. of Biostatistics – Graduated August, 1994
120. Nancy W. Glynn, Ph.D, Dept. of Epidemiology – Graduated May, 1994
121. Furqon, Ph.D, Dept. of Psychology and Education – Graduated August, 1993
122. Cora Wixey, M.S, Dept. of Biostatistics – Graduated December, 1992
123. Silvia Vignetti, M.S, Dept. of Biostatistics – Graduated August, 1992
124. Alfred Cachetti, Dept. of Biostatistics, M.S. – Graduated June, 1992
125. Molly Vogt, Ph.D, Dept. of Epidemiology – Graduated December, 1991

2. Research and Training

a. Grants and Contracts Received

Principal Investigator

Source AJCC 5/1/06-04/30/07 – 15%

Title: TNM Staging of Breast Cancer: Refinements Using Data from the NSABP

Role on Project: Co-Principal Investigator

Source: DTFH61-96-00022 [Sub-contract with CMU] from ATA foundation (5%)

Title: Operational Test of Fatigue Management Technologies

Annual Cost of Project: \$35,127 [01/01/00-12/31/00]

Role on Project: Principal investigator on sub-contract. Oversee graduate student (Changyu Shen); consult with co-investigator.

Co-investigator

Source: NIH - 5-U10-CA69974 (PI – Costantino) – 25%

Title: Clinical Oncology Program Biostatistical Center

Annual Direct Costs: \$3,761,448 (6/1/07 -5/31/ 12)

Role on Project: Senior Statistician: Support the statistical and data management centers for the NSABP in four major work

Components: collection and management of data, processing of submitted data forms, execution of quality control and audit, design monitoring, and analysis of the prevention trials.

Source: NIH – 5U10-CA069651 (PI – Costantino) – 55%

Title: Biostatistical Center for the NSABP

Annual Direct Cost: \$2,540,761 (2/06 – 1/12)

Role on Project: Senior Statistician: Collaborations with clinical colleagues to design, implement, and manage breast and colorectal clinical trials and analysis and publication of the results of these trials.

Source: NIH – P30MH090333 - 01A1 (PI -Reynolds) – 25% [sub-contract]

Advanced Center in Interventions and Services Research in Late-Life Mood Depression Prevention

Annual Direct Cost: \$1,165,314 (4/1/11 – 3/31/16)

Role on Project: Principle investigator of Research Design and Biostatistics Unit; Co-principle investigator of Dynamic Individualized Prediction of Depression Onset project.

Source: NIH – 1R01 MH090250 01A1(PI – Lotrich) – 5% [sub-contract]

Vulnerability to Major Depression: the Role of Delta Sleep in Patients Receiving Interferon-Alpha

Annual Direct Cost: \$249,988 (7/1/10 - 6/30/15)

Role on project: Statistical consultant

Source: NIH – 1R01 MH084921 01A2 (PI – Gildengers) – 2% [sub-contract]

The Effect of Bipolar Disorder and Its Co-Morbidities on Cognition in Older Adults

Annual Direct Cost: \$225,000 (1/1/10-12/31/14)

b. Invited Lectureships and Major Seminars Related to Your Research

Anderson SJ. Monitoring Endpoints and Disseminating Information in Cancer Clinical Trials: Some Issues and Challenges. Presented by me at *The Society of Clinical Trials*, New Orleans, LA, May 24, 2004.

Fisher ER and Anderson S. Long-term Pathologic and Clinical Predictors of Survival and IBTR following Lumpectomy with or without local breast irradiation (NSABP Protocol B-06). Invited talk. Jointly presented at the *Conference on Prognostic Factors and Staging in Cancer Management: Contributions of Artificial Neural Networks and Other Statistical Methods*, Arlington, VA, September 27, 1999.

Anderson SJ. Global monitoring of prevention trials: the Breast Cancer Prevention Trial (BCPT) experience. [Invited talk] Presented by me at the *1997 American College of Epidemiology meeting*, Boston, MA, September, 1997.

Anderson SJ. Ipsilateral breast tumor recurrence in relation to distant disease on NSABP Protocol B-06. Presented by me at *An Appraisal of Clinical Research for the Treatment of Early Breast Cancer: A National Cancer Institute Workshop*, Bethesda, MD, November 15, 1994.

PUBLICATIONS

1. Peer Reviewed (Published or In Press)

1. Sumetsky N^{§§}, Mair C, **Anderson S**, Gruenwald PJ. A spatial partial differential equation approach to addressing unit misalignments in Bayesian Poisson space-time models. To appear in *Spatial and Spatio-temporal Epidemiology*, Volume **33**, June 2020
2. Azariah F, Sequeira M, Cohen A, Dias A, Morse JQ, **Anderson SJ**, Cuijpers P, Patel V, Reynolds CF III. Problem-solving therapy for older adults at risk for depression: a qualitative analysis of the Depression in Later Life trial. *American Journal of Psychotherapy*, December 20, 2019.
3. Beer JC^{§§}, Aizenstein HJ, **Anderson SJ**, Krafty RT. Incorporating prior information with fused sparse group LASSO: application to prediction of clinical measures from neuroimages. *Biometrics* **75**. 1299-1309, 2019.
4. Chen J-Y^{§§}, Shultz R, **Anderson SJ**[‡]. Joint modeling of bivariate longitudinal and survival data in spouse pairs. *Journal of Statistical Research*, in press, 2019.
5. Karp JF, Zhang J, Wahed AS, **Anderson S**, Dew MA, Fitzgerald K, Weiner DK, Albert S, Gildengers A, Butters M, Reynolds CF. Improving patient reported outcomes and preventing depression and anxiety in older adults with knee osteoarthritis: results of a sequenced multiple assignment randomized trial (SMART) study. *American Journal of Geriatric Psychiatry*. Accepted March 28, 2019.
6. Albert SM, King J, **Anderson S**, Dew MA, Zhang J, Stahl ST, Karp JF, Gildengers AG, Butters MA, Reynolds CF III. Depression agency-based collaborative (Dep-ABC): effect of problem solving therapy on risk of common mental disorders in older adults with home care needs. *American Journal of Geriatric Psychiatry*. Accepted January 7, 2019.
7. Dias A, Azariah F, Sequeira M, Krishna R, Morse J, Cohen A, Cuijpers P, **Anderson S**, Patel V and Reynolds CF III. Adaptation of problem-solving therapy for primary care to prevent late-life depression in Goa, India: the 'DIL' intervention. To appear in *Global Health Action*, 2019.
8. Abberbock J[§], **Anderson SJ**, Rastogi P and Tang G. Assessment of effect size and power for survival analysis through a binary surrogate endpoint in clinical trials. *Statistics in Medicine*, **38(3)**, 301-314, February 10, 2019.
9. Tudorascu D[§], **Anderson SJ**, Minhas D, Yu Z, Comer D, Laymon C, Snitz B, Lopresti B, Price J, Mathis C, Aizenstein HJ, Klunk W, Handen BL, Christian BT, Cohen AD. Comparison of longitudinal A β in nondemented elderly and Down syndrome. *Neurobiology of Aging*, (**73**), 171-176, 2019.
10. Dias A, Azariah F, **Anderson SJ**, Sequeira M, Cohen A, Morse J, Cuijpers P, Patel V, Reynolds CF III. Preventing the onset of major depression in older adults: a randomized controlled trial using problem solving therapy delivered by lay health counsellors in Goa, India. *JAMA Psychiatry*, **76(1)**, 13-20, January 1, 2019.
11. Jayasekera J, Li Y, Schechter CB, Jagsi R, Song J, White J, Luta G, Chapman JW, Feuer EJ, Zellars RC, Stout N, Julian TB, Whelan T, Huang X, Shelley Hwang E, Hopkins JO, Sparano JA, **Anderson SJ**, Fyles AW, Gray R, Sauerbrei W, Mandelblatt J, Berry DA; CISNET-BOLD Collaborative Group. Effects of Radiotherapy in Early-Stage, Low-Recurrence Risk, Hormone-Sensitive Breast Cancer. *J Natl Cancer Inst*. 110(12), 1370-1379. Jayasekera J, Li Y, Schechter CB, Jagsi R, Song J, White J, Luta G, Chapman JW, Feuer EJ, Zellars RC, Stout N, Julian TB, Whelan T, Huang X, Shelley Hwang E, Hopkins JO, Sparano JA, **Anderson SJ**, Fyles AW, Gray R, Sauerbrei W, Mandelblatt J, Berry DA; CISNET-BOLD Collaborative Group. Effects of Radiotherapy in Early-Stage, Low-Recurrence Risk, Hormone-Sensitive Breast Cancer. *J Natl Cancer Inst*. 110(12), 1370-1379.
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Lembersky, B, **Anderson, S**, Smith, R, Brown, A, Nesbitt, L, Aikin, J, Fehrenbacher, L, Jochimsen, P, Thirlwell, M, Mamounas, E. Phase II Trial Doxorubicin and Docetaxel for Locally Advanced and Metastatic Breast Cancer: Preliminary Results from NSABP BP-57. *Proceedings of the American Society of Clinical Oncology*, **19**, p. 104a, May 20 - 23, 2000.

Anderson SJ, Dignam J^S. Addressing the Concerns of a Skeptic: Design Issues in Randomized Clinical Trials. *Biometrics Society ENAR Annual Meeting*, Atlanta, GA. March 28-30, 1999.

Decillis, A, **Anderson, S**, Bryant, J, Wickerham, D.L, Fisher, B. Acute myeloid leukemia (AML) and myelodysplastic syndrome (MDS) on NSABP B-25: an update. *American Society of Clinical Oncology*, May, 1997.

Whiteman, P^{SS}, Ahnn S^{SS} and **Anderson S**. Evaluation of sample size estimates for time to event outcomes in complex clinical trials. *Biometrics Society ENAR Annual Meeting*, Memphis, TN. March 23-26, 1997.

Decillis, A, Anderson, S, Wickerham, D.L, Fisher, B. Acute myeloid leukemia (AML) in NSABP B-25. *American Society of Clinical Oncology*, Los Angeles, CA, May 20-23, 1995.

Dimitrov, N, **Anderson, S**, Fisher, B, Redmond, C, Wickerham, D.L, Pugh, R, Spurr, C, Goodnight, Jr. J, Abramson, N, and Wolter, J. Dose intensification and increased total dose of adjuvant chemotherapy for Breast Cancer (BC): Findings from NSABP Protocol B-22. *American Society of Clinical Oncology*, May, 1994.

Ahnn, S.^{SS} and **Anderson SJ**. Sample size calculations for comparing k survival distributions. *1994 Biometrics Society's ENAR spring meeting*, Cleveland, OH.

Anderson SJ, Costantino, J, Redmond, C.K, Ahnn S.^{SS} and Fisher, B. Rationale of the risk assessment model for determining participant eligibility for the NSABP Breast Cancer Prevention Trial. Presented by me at the *American Public Health Association's 1993 Annual meeting*, San Francisco, CA, October, 1993.

Anderson SJ and Swanson, G.D. An approach to modelling simultaneous measurements using multivariate splines. *1993 Biometrics Society's ENAR spring meeting*, Philadelphia, PA, March, 1993.

Dimitrov, N, Stoller, R, Hamm, J, Glass, A, Bear, H, Foster, R, Bornstein, R, Wickerham, D.L, **Anderson, S**, Mamounas, E, Fisher, B. An NSABP pilot study evaluating GM-CSF and G-CSF used with high-dose chemotherapy. *Proceedings from the American Society of Clinical Oncology*, 12:138 (abstract #352), 1993.

Gollin, S.M, Cen, H, Storto, P.L, Wyman, P, **Anderson SJ**, Herberman, M.A, Nalesnik, J, Locker, M.H, and McKnight, J. Consistent nonclonal cytogenetic abnormalities in posttransplant lymphoproliferative disease. *American Journal of Human Genetics*, **47(3 Suppl)**, A7 (1990).

7. Selected Presentations

Anderson SJ. Exploring Joint Modeling of Longitudinal and Survival Data. *University of Delaware, Dept of Applied Economics and Statistics*, November 1, 2019.

Anderson S. TNM Staging of Breast Cancer Refinements Using Data from the NSABP: A Brief Progress Report. Presented at the *Annual Meeting of the American Joint Committee on Cancer*, Chicago, IL September 29, 2007

Anderson SJ. Monitoring Clinical Trials in Oncology: Some Issues and Challenges. Presented at the *2004 Society for Clinical Trials meeting*, New Orleans, LA, May 24, 2004 (invited).

Mor, MK^{SS} and **Anderson S**. A Bayesian Sequential Procedure for Multiple Treatment Outcomes. *Biometrics Society ENAR Annual Meeting*, Tampa, FL. Presented by me on April 1, 2003.

Anderson SJ, Dignam J[§]. Addressing the Concerns of a Skeptic: Design Issues in Randomized Clinical Trials. Presented by me at *Biometrics Society ENAR Annual Meeting*, Atlanta, GA, March 30, 1999.

Anderson SJ, Costantino, J, Redmond, C. and Freedman, L. Global monitoring of prevention trials: the Breast Cancer Prevention Trial (BCPT) experience (invited). Presented by me at the *1997 Society of Clinical Trials meeting*, Boston, MA, July 10, 1997.

Ahnn, S.^{§§} and **Anderson SJ**. Sample size calculations for comparing k survival distributions. Presented by me at the *1995 Biometrics Society's ENAR spring meeting*, Birmingham, AL, March 28, 1995.

Anderson SJ. Ipsilateral breast tumor recurrence in relation to distant disease on NSABP Protocol B-06 (Invited). Presented by me at *An Appraisal of Clinical Research for the Treatment of Early Breast Cancer: A National Cancer Institute Workshop*, Bethesda, MD, November 15, 1994.

Anderson SJ, Costantino, J, Redmond, C.K, Ahnn S.^{§§} and Fisher, B. Rationale of the risk assessment model for determining participant eligibility for the NSABP Breast Cancer Prevention Trial. Presented by me at the *American Public Health Association's 1993 Annual meeting*, San Francisco, CA, October 26, 1993.

Anderson SJ and Swanson, G.D. An approach to modelling simultaneous measurements using multivariate splines. Presented by me at the *1993 Biometrics Society's ENAR spring meeting*, Philadelphia, PA, March 22, 1993.

Anderson SJ. An approach to modelling simultaneous measurements using multivariate splines. Presented by me at *Carnegie Mellon University*, Pittsburgh, PA, April 29, 1992.

Anderson SJ and Jones, R.H. Smoothing splines for longitudinal data. Presented by me at the *1992 Biometrics Society's ENAR spring meeting*, Cincinnati, OH, March 23, 1992.

Anderson SJ and Jones, R.H. Smoothing splines for longitudinal data. Presented by me at the *NSF / NBER Time Series Conference*, Pittsburgh, PA, September 28, 1991.

Anderson SJ, Weissfeld, L.A. Use of a smooth cumulative hazard estimator for model selection in survival analysis. Presented by me at the *1991 Biometrics Society's ENAR spring meeting*, Houston, TX, March 23, 1991.

Anderson SJ, Meng, C, and Nelson, D.E. Use of Smoothing Polynomial Splines in Inverse Prediction. Presented by me at the *1989 American Statistical Association's summer meeting*, Washington, D.C, August 10, 1989.

8. Other Publications

1. Yin, Y^{§§}, **Anderson SJ**. Exponential tree-structured modeling for interval-censored survival data. *Dept. of Biostatistics, University of Pittsburgh, Technical Report - Methods #33*, 2001.
2. Tian W^{§§} and **Anderson SJ**. Markov chain models for multivariate repeated binary data analysis. *Dept. of Biostatistics, University of Pittsburgh, Technical Report - Methods #30*, 1999.
3. **Anderson SJ** and Weissfeld LA. Use of a cumulative hazard estimator for analyzing censored data. *Dept. of Biostatistics, University of Pittsburgh, Technical Report - Methods #14*, 1993.
4. **Anderson SJ**. Applications of smoothing polynomial splines to modelling univariate, bivariate, and growth curve data. *Ph.D. Dissertation*, University of Colorado Health Sciences Center, Denver, Colorado, May, 1987.
5. **Anderson SJ**. Time series models and forecasts for electrical power demand for utilities in Kansas. *The University of Kansas Center for Research, Inc*, 1981.
6. **Anderson SJ** and Heidebrecht, T. Quick-look forecast. *The University of Kansas Center for Research, Inc*, 1981.

3. Service (Professionally Related)

a. University/Institute of Higher Learning

University:

- Member University Review Board, 1998 - 2005
- Member, Institutional Animal Care and Usage Committee (IACUC), University of Pittsburgh, 2001-present.
- Responsible for Biostatistics section of Department of Bioengineering Ph.D. preliminary exam, 2000-2002.

School:

- Member, Department of Biostatistics Chair Search Committee, 2009
- Past President, GSPH Faculty Senate, 2005-2006
- President, GSPH Faculty Senate, 2004-2005

- President-elect, GSPH Faculty Senate, 2003-2004
- Chair, Planning and Budgetary Policies Committee, 2001-2003
- Member of GSPH Council, 1999-2006
- Member of GSPH Safety Committee, 1990-2002
- Member of GSPH Faculty Advancement Committee, 1997-1999
- Member of GSPH Faculty Senate Executive Committee, 1996-1999
- Member of GSPH Student Performance Committee, 1996-1999
- Chair, Promotion Committee for Sofia Shekhter-Levin to Associate Professor, Department of Genetics, Spring, 1998
- Member, Promotion Committee for Roberta Ness to Associate Professor, Department of Epidemiology, Spring, 1998
- Chair, Biostatistics section of Department of Epidemiology Ph.D. preliminary exam, 1990-2002, 2016
- Reader for Health Services Administration Ph.D. exam, 1991, 1992, 1996

Departmental:

- Chair, PhD admissions committee, 2015 – 2019
- Member of PhD admissions committee and Doctoral Monitoring Committee, 2008 – present
- Chair, departmental faculty search committee, 2007
- Member of Biostatistics Curriculum committee, 1998 – present
- Departmental seminar coordinator, Fall 1990 - Spring 1993
- Responsible for Master's/Ph.D. departmental examination, 1990-1991
- Member of departmental examination committee, 1992-2002

Academic External to University of Pittsburgh

- Review of portfolio for Dr. Andrzej Kosinski for promotion to Associate Professor with tenure, Department of Biostatistics and Bioinformatics at Duke University Medical Center, June 2013.
- Review of portfolio for Dr. Hilmi K. Kattani for promotion to Professor with tenure, Department of Mathematics, College of Sciences at the Hashemite University, Zarka, Jordan, May 2013

b. Manuscript and Other Document/Publication Review

Reviewed manuscripts for *Journal of the American Statistical Association*, *Biometrics*, *Lifetime Data Analysis*, *Journal of Applied Statistics*, *Journal of the American Public Health Association*, *Journal of Clinical Oncology*, *Journal of Cleft Palate*, and the *Canadian Medical Association Journal*.

Reviewed a textbook, *Fundamentals of Biostatistics*, B. Rosner, 1995 and 2000 editions.

c. Editorships

Named statistical editor, *JAMA Psychiatry* in November 2019; to start January 1, 2020.

d. Study Sections, Review Panels, and Related Advisory Boards

Member, Steering Committee of Early Breast Cancer Trialists' Collaborative Group. Elected, September 2012. Service from 2012-present.

Member of VA Merit Review Subcommittee for Mental Health and Behavioral Sciences, 2018-present.

Member, Data Safety and Monitoring Board, "Four Supports Study, Douglas White, PI, 2013-present.

Member, Data Safety and Monitoring Board, Jazz Pharmaceuticals, Study 15-007, 2019-present.

Member, Data Safety and Monitoring Board CDC-ARRA project, "Falls-Free PA", Steven Albert, PI, 2010-2014

Member, Review panel for grants 1 R01 CA149882-01A1 and 1 R01 CA160225-01, 2011

Member of Data Safety and Monitoring Board for "Prevention of Depression in Older African Americans", (P60 MD000107 PI: Reynolds/Thomas) 2008 – 2010

Member of NCI Correlative Sciences committee, 2009 - 2012

Member, site visit team for the review of the biostatistics section of the Eastern Cooperative Oncology Group (ECOG), 2010

Member, *American Joint Committee on Cancer Breast Cancer Task Force* for the revision of staging Breast Cancer, 2006-2009

Member of NCI Group Tissue Banking Committee, 2004 - 2008.

Member of NIH/NIAMS review committee for R-01 project entitled "Immediate Versus Delayed Wound Closure in Open Fractures", Michael Bosse, PI, May 2003.

Member of Data Safety and Monitoring Board for "Low-Dose Doxycycline Effects on Osteopenic Bone Loss", (R01 DE12872-01A2, Dr. Jeffrey Payne, Principal Investigator, 2001-2007

Ad hoc Member of Institutional Animal Care and Usage Committee, University of Pittsburgh, 2001-present.

Member of Early Breast Cancer Trialists' Collaborative Group (EBCTCG), Oxford, England, 1995 – present

Member of the USAMRDC Breast Cancer Program Peer Review Committee (EPID-1B section), February 14-16, 1994. The committee considered grant proposals for breast cancer research funded by the Department of Defense.

e. Leadership in Professional Organizations and Honorary Societies

- Chapter Representative Pittsburgh Chapter of the American Statistical Association, 2015-2017
- Chair, Information Technology Oversight Committee, Biometric Society, Eastern North American Region, 2002-2004.
- Secretary-Treasurer of the Pittsburgh Chapter of the American Statistical Association, 1992-1995