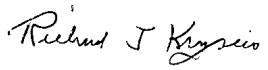
CURRICULUM VITA

Richard John Kryscio



DEGREES:

B.A.	(Magna Cum Laude) Mathematics	1966	King's College, Pennsylvania
M.S.	Statistics	1968	SUNY at Buffalo
Ph.D.	Statistics	1971	SUNY at Buffalo

EXPERIENCE:

Staff Fellow, Biometry Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland. August, 1971 to August, 1972.

Assistant Professor, Department of Mathematical Sciences, Northern Illinois University, September, 1972 to September, 1977.

Associate Professor, Department of Mathematical Sciences, Northern Illinois University, September, 1977 to August, 1981.

Visiting Associate Professor, Department of Statistics, University of Kentucky, August, 1981 to May, 1982.

Associate Professor and Director of Mathematical Sciences Consulting Laboratory, Department of Statistics, University of Kentucky, August, 1982 to May, 1986.

Professor and Director of Mathematical Sciences Consulting Laboratory, Department of Statistics, University of Kentucky, August, 1986 to August, 1989.

Chairman, Department of Statistics and Director, Biostatistics Consulting Unit, Medical Center Campus, University of Kentucky, August, 1990 to July, 1998.

Professor, Department of Statistics, and Director of Biostatistics Consulting Unit, Medical Center Campus, University of Kentucky, August, 1989 to December, 2000.

Professor, Department of Statistics and the Kentucky School of Public Health, and Director of Biostatistics Consulting Unit, January 2001 to June, 2004.

Professor, Department of Statistics. College of Arts and Sciences and Chair, Department of Biostatistics, College of Public Health, July, 2004 to 2016.

Professor, Department of Statistics, College of Arts and Sciences 2017-present.

Allen-Anderson Professor of Statistics, Bin Zhang Department of Statistics, College of Arts & Sciences, 2023-present

RESEARCH INTERESTS: applied probability including epidemic theory, spatial statistics and clustering of disease in time and biostatistics/epidemiology including statistical methodology in Alzheimer's disease research, cancer , clinical trials, prevention trials, longitudinal data analysis, and missing data analysis.

PUBLICATIONS

1. Kryscio, RJ and Severo, NC. Some properties of an extended simple stochastic epidemic model involving two additional parameters. *Mathematical Biosciences*, 5: 1-8, 1969,

2. Kryscio, RJ. The transition probabilities of the extended simple stochastic model and the Haskey model. *Journal of Applied Probability*, 9: 471-485, 1972.

3. Kryscio, RJ. On estimating the infection rate of the simple stochastic epidemic. *Biometrika*, 59:213-214, 1972.

4. Kryscio, RJ, Meyers, MH, Prusiner, ST, Heise, HW and Christine, BW. Space-time clustering of Hodgkin's disease in Connecticut 1940-69. *Journal of the National Cancer Institute*, 50: 1107-1110, 1973.

5. Murphy, EA, Cramer, DW, Kryscio, RJ, Brown, CC and Pierce, ER. Gonadal mosaicism and genetic counseling for X-linked recessive lethals. *American Journal of Human Genetics*, 26: 207-222, 1974.

6. Kryscio, RJ. On the extended simple stochastic epidemic model. *Biometrika*, 61: 200-202, 1974.

7. Kryscio, RJ. The transition probabilities of the general stochastic epidemic model. *Journal of Applied Probability*, 12: 415-425, 1974.

8. Kryscio, RJ and Severo, NC. Computational and estimation procedures in multidimensional right-shift processes and applications. *Advances in Applied Probability*, 7: 349-382, 1975.

9. Mantel, N, Kryscio, RJ and Meyers, MH. Tables and formulas for extended use of the Ederer-Meyers-Mantel disease clustering procedure. *American Journal of Epidemiology*, 104: 576-584, 1976.

10. Saunders, R and Kryscio, RJ. Parameter estimation for the carrier-borne epidemic model. *Journal of the Royal Statistical Society B*, 38: 265-269, 1976.

11. Kryscio, RJ and Saunders, R. A note on the cost of carrier-borne, right-shift, epidemic models. *Journal of Applied Probability*, 13: 642-661, 1976.

12. Kryscio, RJ and Severo, NC. Statistical inferences for a stochastic epidemic model proposed by Gart. *Management Science*, 7: 105-111, 1977.

13. Billard, L and Kryscio, RJ. The transition probabilities of a bounded bivariate pure death process. *Mathematical Biosciences*, 37: 205-221, 1977.

14. Funk, GM and Kryscio, RJ. Equity and the property tax: comments on two seemingly unrelated conceptual frameworks. *National Tax Journal*, 31: 441-444, 1978.

15. Saunders, R, Lefevre, C and Kryscio, RJ. A note on the expected number of survivors in supercritical carrier-borne epidemics. *Journal of Applied Probability*, 16: 646-650, 1979.

16. Saunders, R, Kryscio, RJ and Funk, GM. Limiting results for arrays of binary random variables under sparseness conditions. *Journal of Applied Probability*, 16: 554-556, 1979.

17. Kryscio, RJ, Saunders, R and Funk, GM. Normal approximations for binary lattice systems. *Journal of Applied Probability*, 17: 674-685, 1980.

18. Saunders, R, Kryscio, RJ and Funk, GM. Poisson limits for a hard-core clustering model. *Stochastic Processes and Their Applications*, 12: 97-106, 1982.

19. Johnson, MC, Anderson, RL, Kryscio, RJ and Siegel, MR. Sampling procedures for determining endophyte content in tall fescue seed lots by ELISA. *Phytopathology*, 73: 1406-1409, 1983.

20. Fried, AM, Woodring, JH, Loh, FK, Lucas, BA and Kryscio, RJ. The medullary pyramid index: An objective assessment of prominence in renal transplant rejection. *Radiology*, 149: 787-791, 1983.

21. Kryscio, RJ and Saunders, R. On interpoint distances for planar Poisson cluster processes. *Journal of Applied Probability*, 20: 513-528, 1983.

22. Griffith, W, Kryscio, RJ and Purdue, P. A stochastic model of particle shattering. *Advances in Applied Probability*, 16: 70-87, 1984.

23. Woodring, JH, Loh, FK and Kryscio, RJ. An evaluation of the plain radiographic manifestations of mediastinal hemorrhage. *Radiology*, 151: 15-21, 1984.

24. Hall, J, Gruber, J, Humphries, L and Kryscio, RJ. Performance of older adolescents on the Briuninks-Oseretsky test of motor proficiency: A prelude to normative data. *American Corrective Therapy Journal*, 38: 119-121, 1984.

25. Raynor, W. and Kryscio, RJ. Forming contacts between university consulting groups and industry and/or local and state governments. *Proceedings of the Wisconsin Workshop on Consulting Intern Programs* (B. Joiner, ed.). Statistical Laboratory: Madison, WI, 1984, 159-168.

26. Sisken, BF, Fowler, I, Barr, EJ and Kryscio, RJ. The threshold quantity of nerve required to induce limb regeneration in the chick embryo. *Journal of Neuroscience Research*, 12(4): 623-632, 1984.

27. Maruyama, Y, Kryscio, RJ, Wood, C, VanNagell, JR, Donaldson, E, Hanson, M and Yoneda, J. Results of treatment of primary and recurrent adenocarcinoma of the corpus uteri with californium-252. *Radiation Oncology*, 11:1199-1208, 1985.

28. Maruyama, Y, Kryscio, RJ, VanNagell, JR, Yoneda, J, Donaldson, E, Hanson, M, Beach, J, Feola, J, Martin, A and Parker, C. Advanced cervical cancer cured better by neutron brachytherapy versus conventional radiotherapy. *The Lancet*, May: 1120-1122, 1985.

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63. Maruyama, Y., Feola, J., Kryscio, R.J. and Wood, C.L. Cf-252 leukemogenesis in C57BL mouse: effect of mixed low dose rate Cf-252 and photon radiation schedule. *Strahlentherapie and Oncologies*, 6: 257-264, 1990.

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PRESENTATIONS

Category A: Invited

Grant preparation: a statisticians's perspective. Grant Writing Workshop, UK College of Medicine, December 7, 2021

The role of statistics in an Alzheimer's disease Research Center. R.L. Anderson Lecture, Department of Statistics, April 16, 2021.

Use of multi-state models in Alzheimer's disease research. Neuroepidemiology Laboratory of the NIA, April 28, 2021.

Contributions of the SMART project and multi-state models to dementia research. Rush University May 2, 2019.

Insights into early signs of cognitive decline and dementia using multi-state models: results from the SMART project. 12th International Conference on Health Policy Statistics, Charleston, S.C. January 11, 2018

Incomplete and right censored covariates in multi-state and logistic regression models. Statistical methods conference on Aging & dementia II. Johns Hopkins University, October, 2016.

SMART project: statistical modeling of aging risk transitions. UK-Alzheimer disease center virtual site visit. Baltimore, Md, October, 2016.

Statistical methods for aging & dementia. Invited discussant. JSM, Chicago, July, 2016

Reviewing cores for ADRCs and ADCs. Invited panel member. ACTS meeting, Chicago, July, 2016.

Statistical methodology in Alzheimer's disease research: an overview focusing on multi-state modeling and prevention trials. SRCOS, June, 2016.

Effects of subjective memory complaints on cognition and neuropathology. Markesbery Symposium, University of Kentucky, November 20, 2015.

Some topics in dementia research: multi state modeling of subjective memory complaints and lessons learned from a large dementia prevention trial. Indiana School of Medicine, October 9, 2015.

Challenges in using multi-state models to analyze cognitive changes before dementia. Statistical methods conference on aging and dementia. Rush Medical University, September 23, 2015.

Primary prevention trials for dementia. JSM, Seattle, August 12, 2015.

Semi-markov models for interval censored transient cognitive states with backward transitions and unknown initial time. JSM, Seattle, August 9, 2015.

Modeling cognitive states in the elderly: the analysis of panel data using multi-state Markov and semi-Markov processes. ENAR, Miami, March 17, 2015.

Using semi-Markov models to analyze panel data: application to dementia studies. Department of Biostatistics, University of Buffalo, October, 2014.

New hope: the development of disease-modifying drugs for neurological diseases. Invited panelist, ASA Biopharmaceutical Section-FDA –Industry Statistics Workshop, Washington DC, September, 2014

Self reported memory decline predicts mild cognitive impairment and dementia. Poster with (David Fardo, Peter Nelson Erin Abner, Fred Schmitt, et al.). Selected for oral presentation to the Press at the Alzheimer's Association International Conference, Boston, July, 2013.

Determining how and when risk factors for dementia matter: the SMART project. Sanders Brown Center on Aging seminar series. September 14, 2012

Discussant (Phase II clinical trials): Clinical Trial Methods Course in Neurology July 23, 2012 Vail Co.

. Grand Rounds: College of Public Health: Research, Better Health: how the BERD can help. September 7, 2012

Mild cognitive impairment: transient and clinical versions, risk factors, and prevention. FDA, Silver Springs, Md., April 26, 2012

Dementia and cognitive impairment: epidemiology and risk factors. Community Education Event, Marshall University Medical Center, March 19, 2012.

A randomized controlled AD prevention trial's evolution into an exposure study. Clinical Trials in Alzheimer's Disease. San Diego, November 3, 2011.

Cognitive impairments and the risk of dementia: role of statistical modeling. Emory University, Alzheimer's Disease Research Center, October 6, 2011.

Modeling pre-clinical changes: statistical issues. Alzheimer's Disease Directors Meeting, San Diego, September 24, 2011.

Effects of selection bias and competing risks on factors determining conversions to cognitive impairments and mixed dementias. Invited contributed paper, JSM, Miami, August 1, 2011.

Impaired states and covariate risks for dementia require novel statistical methodology illustrated by the Nun Study and BRAiNS cohort. 4th David Wekstein Conference on Longitudinal Studies in Aging and AD. Lexington Green, March 7, 2010.

Assessing the risk of chronic disease: applying Markov chains to study conversion from impaired states to dementia. 24th Annual Eastern Kentucky University Symposium in Mathematical, Statistical & Computing Sciences. April 9, 2010.

Designing a quality FDG PET study. Comparative Effectiveness Research Workshop in Molecular Imaging, Group 5: Neurology. Bethesda, Md., July 22, 2010.

Relative risk of dementia before death: new statistical tools. Alzheimer's Disease Center Data Core Meeting, Baltimore, October 10, 2009.

Risk factors for MCI & dementia, a tale of two cohorts: BRAiNS and the Nun Study, AD 101 Seminar series, University of Kentucky Center on Aging, March 12, 2009..

Design and analysis of clinical translational studies. Distinguished Lecture Series in Clinical Translational Sciences, University of Texas, Southwest. November 6, 2008

Planning group randomized designs in drug abuse and health research. Workshop on Statistical Methods in Drug Abuse and Health Related Research, University of Kentucky, October 29, 2008.

Markov transition models for computing the odds that a cognitively intact elderly person will develop dementia before dying. Biostatistics Division, Albert Einstein College of Medicine, March 14, 2008.

Designing smarter clinical trials. University of Kentucky Clinical Research Organization Research November 15, 2007.

Identifying risk factors for mild cognitive impairment and dementia using Markov transition models. Biostatistics Department, SUNY, Buffalo, November 30, 2006.

Estimating the relative risk of cases to controls on the line with large samples using nearest neighbor statistics. Int. Workshop Applied Probability. U Connecticut, May 15, 2006.
Risk factors for transitions to MCI and dementia: findings from the NUN study. General lecture. Medical College of Wisconsin, April 5, 2006.

Statistical properties of transition models with absorbing states Division of Biostatistics, Medical College of Wisconsin, April 4, 2006.

Risk factors for transitions from normal to mild cognitive impairment and dementia. Washington University, St. Louis, November 1, 2005.

Design and Analysis Issues in Prevention Trials. Drug Information Association 41st Annual Meeting, June 28, 2005.

Design and analysis issues in pharmacy studies. St Joseph's Hospital, Lexington ,July, 2005

Alzheimer's 101: nuts and bolts of longitudinal data analysis. Alzheimer's Disease Research Center, University of Kentucky, March 2, 2005

Multi-state random effects models with application to a longitudinal study of transitions to dementia. Cleveland Clinic, Feb. 25, 2005.

Risk Factors for MCI and Dementia. 3rd Longitudinal Conference on Aging. Radisson Hotel, Lexington, Ky., December, 2004.

Design issues in public health trials. Invited presentation to Statistics Club, Eastern Kentucky University, November, 2004.

Issues in longitudinal data analysis and the advantages of mixed effects model regression formulation. Missing data imputation. Psychometrics Workshop. University of Washington Friday Harbor Conference Center, September, 2004.

PREADVISE: A simple, large Alzheimer's disease prevention trial. Roswell Park Cancer Institute, May, 2003.

Identifying disease clusters in non-uniform populations by using a computationally efficient k nearest neighbor procedure. Fourth Biannual International Conference on Statistics, Probability and Related Areas, Northern Illinois University. June, 2002 (with D. Pavlov).

Designing a large prevention trial: statistical issues. Second conference on Statistical Methodology in AD Research. May, 2002 (with M. Mendiondo and F. Schmitt).

Interpreting clinical trial results: what we often forget to mention in the protocol. Kentucky Center of Clinical Research and Investigative Services (KCRISS). January, 2002.

Clinical trials Beyond Advanced Placement Statistics Workshop. University of Kentucky. November, 2001.

A quality clinical trial recipe: mix good patient care, data management, and biostatistics. Kentucky Center for Clinical Research and Investigator Services. January 17, 2001.

Statistics as part of an Alzheimer's disease research center. Kentucky Chapter of the American Statistical Association. December 4, 2000 (with M. Mendiondo).

Statistics as part of a large clinical research training program. Joint Statistical Meetings, Baltimore, Maryland, August 10, 1999 (with J. Clive).

From punched cards to desktop SAS. SAS Users Group, Lexington, Ky., November 21, 1997.

A comparison of space-time clustering statistics. First Northern Illinois University Symposium on Statistical Science, DeKalb, Illinois, September 27, 1996.

Statistics in action: A Kentucky experience. Mathematics Awareness Week, Eastern Kentucky University, April 22, 1996.

Bioengineering and statistics: a fruitful collaboration. Center for Biomedical Engineering, University of Kentucky, February 27, 1996.

From bench to brain: developing drugs for Alzheimer's disease. Invited participant, Workshop at Sanders Brown Center on Aging, March 15, 1996.

Sampling frames and sample design. Invited presentation. The Tobacco Regulation Technical Assistance workshop. Baltimore, Maryland, February 29, 1996.

Outcome evaluation: paired county and baseline comparisons. Appalachian Leadership Initiation on Cancer. Lexington, Kentucky, May 2, 1996.

Cancer Cluster Study. Calvert City Advisory Committee Meeting, May 11, 1995.

Where the jobs are, 1995: professional opportunities in Biostatistics. Invited discussant. American Statistical Association Meetings, Orlando, August 15, 1995.

Detecting space-time clustering using cell count data. American Statistical Association Annual Meetings, Toronto, August 17, 1994.

Statistical aspect of clinical research. Tenth Annual Symposium on Mathematics, Statistics, and Computer Science. Eastern Kentucky University, March 4, 1994.

Some computational problems in modeling epidemics. Epidemiological Modeling Workshop, Pittsburgh Supercomputing Center, December 3, 1991.

Measuring the severity of clustering using Tango's Index. Workshop: Epidemic modeling and data analysis, Skokloster, Sweden, August 11, 1990.

Use of stochastic epidemic theory to model the AIDS epidemic SRCOS/ASA Summer Research Conference in Statistics, June 11, 1990.

On the extinction of the S-I-S stochastic logistic epidemic. Mini-conference on epidemic modeling. Statistics and Applied Probability Program, University of California, Santa Barbara, April 22, 1989.

On modeling the incidence of AIDS. Conference on stochastic processes in epidemic theory, Marseilles, France, October 24-28, 1988.

On modeling the incidence of AIDS: work in progress. Department of Radiation Medicine, Wayne State University, March 17, 1988.

Designing clinical trials at a small institution. Department of Radiation Medicine, Wayne State University, March 17, 1988.

The analysis of repeated measures experiments – International Minerals Corporation, Terre Haute, Indiana, May 14, 1985.

Double sampling plans with two applications ASQC, Wabash Valley Chapter, May 14, 1985.

Pitfalls in the analysis of biomedical data. Division of Cardiology Colloquium Series, College of Medicine, University of Kentucky, October 10, 1985.

Clinical trials: Principles versus practice. International Neutron Therapy Workshop, April 24, 1985.

Two-stage sampling plans with an application. ASQC, Lexington Chapter, November 14, 1984.

Models for the shattering of particles (with W.S. Griffith and P. Purdue). American Statistical Association Annual Meetings, August, 1984.

On modeling venereal disease epidemics. ORSA/TIMS Special Interest Meeting in Applied Probability, June, 1983.

A probability model for predicting the impact of changes in the EPA compliance standard for sulphur emissions on the coal resources of Eastern Kentucky (with J.C. Cobb, J.C. Currens and K.W. Teoh). Workshop on Acid Rain in Kentucky, May 3, 1983.

Modeling spatial patterns and tests for randomness (with R. Saunders). Buffalo-Niagara Chapter of the American Statistical Association, April, 1980.

A maximum likelihood procedure for Chen's property tax model. Department of Statistics Colloquium Series, SUNY at Buffalo, March, 1977.

Computational and estimation procedures in multidimensional right-shift processes. American Statistical Association Annual Meetings, August, 1971.

Category B: Contributed:

Estimating random effects in a finite Markov chain: application to cognitive data. JSM poster, Washington DC, August, 2022.

On incompletely observed covariates in multi-state transition models: a maximum likelihood approach. Fall Alzheimer's Disease Centers Meeting Analytics Workshop, Washington University, Oct., 2019.

Tobacco smoking and dementia in a Kentucky cohort: a competing risk analysis. JSM poster, Denver, July, 2019.

Contributions of the SMART project to dementia research and statistical modeling. JSM poster, Vancouver, July, 2018.

Correlating a right censored risk factor with a neuropathology finding. JSM poster, Chicago, July, 2016.

Self reported memory complaints: a comparison of demented and unimpaired outcomes. AAIC poster, Boston, July, 2015.

APOE-ε4 carrier status does not influence cognitive score trajectories in cognitively normal young old men: results from PREDAViSE.. CTAD, Philadelphia, Nov., 2014 (with Erin Abner, presenter, Frederick Schmitt, Allison Caban-Holt)

Continuous time multi-state models with missing covariates. JSM, Boston, Aug., 2014 (with Wenjie Lou, presenter)

Continuous time multi-state model for interval censored data with competing risk. JSM, Boston, Aug.,

2014 (with Lijie Wan , presenter)

Semi-Markov models for interval censored transient cognitive states with back transitions and a competing risk. IBC, Florence, Italy, July, 2014 (with Shaoceng Wei)

Semi-Markov models for interval censored transient cognitive states with competing risk. JSM, Montreal, Aug., 2013 (with Shaoceng Wei)

Semi-Markov models for transitions from cognitively intact to clinically impaired. JSM, San Diego, Aug. 2012 (with Y Lin and E Abner)

Computing the standard error of the relative risk of dementia versus death ina multistate nonstationary Markov chain. (with Y.Lu) Joint Statistical meetings, Vancouver, August, 2010

A Markov transition model to dementia with death as a competing event. Poster presentation (with L. Xu and D Snowdon), Joint Statistical Meetings, Washington, D.C., 2009.

Models for identifying risk factors for transitions from intact cognition to mild cognitive impairment and dementia. Invited contributed paper, Joint Statistical Meetings, Denver, August, 2008.

Effects of ignoring baseline on modeling transitions from intact cognition to dementia (with Lei Yu, presenter, Suzanne Tyas, David Snowdon) Joint Statistical Meetings, Salt Lake City, Aug. 2007**.**

Surveillance of occupational drivers using k nearest neighbor methods on the line (with Svetla Slavova – presenter).. Joint Statistical Meetings, Seattle, Aug, 2006.

Effect of antioxidant use at baseline on transitions from normal to MCI and dementia (with M Mendiondo, F Schmitt, X Zhang, A Caban-Holt) Poster presentation, Joint Statistical Meetings, Seattle, August, 2006.

Parametric estimation in the presence of censored data (with Sergey Tarima - presenter). JSM, Minneapolis, August, 2005.

The distribution of the product of correlated P values with application to sequence homology searches (with Yan Xie) Poster presentation, JSM, Minneapolis, August, 2005.

Modeling clinical change from normal aging to MCI, dementia, and death (with F.A. Schmitt, M.S. Mendiondo, L.Yu) Alzheimer's Association 9th International Meeting, Washington, D.C., June, 2005.

Shared random effects analysis of multi-state Markov models: application to the NUN Study. (JC Salazar, SL Tyas, MF Desrosiers, KP Riley, MS Mendiondo, DA Snowdon) JSM, Toronto, August, 2004.

Discriminating usual cognitive aging form Alzheimer's disease: a statistical and normative approach to the CERAD cognitive assessment (with JC Salazar, DG Davis, MS Mendiondo, WR Markesbery and FA Schmitt) World Congress on AD, Philadelphia, July, 2004

Risk factors for mild cognitive impairments and conversion to dementia: findings from the Nun Study. World Congress on AD, August, 2002 (with S. Tyas, D. Snowdon, K. Riley, M. Desrosiers, M. Mendiondo and W. Markesbery).

Designing a brief Alzheimer screen. Second conference on Statistical Methodology in AD Research, May, 2002 (with M. Mendiondo, F. Schmitt and W. Ashford).

A new computationally efficient clustering technique of k nearest neighbor type. JSM, Atlanta, 2001 (with D. Pavlov).

Mixed models for correlating cognitive decline with severity of dementia at autopsy. JSM, Atlanta, 2001 (with M. Mendiondo, F. Schmitt, D. Davis, D. Wekstein and W. Markesbery).

Mixed models for correlating cognitive decline with severity of dementia at autopsy. Joint Statistical Meetings, Atlanta, August 2001 (with M.S. Mendiondo*, F. Schmitt, D. Davis, D. Wekstein, and W. Markesbery).

A new computationally efficient clustering technique of k nearest neighbor type. Joint Statistical Meetings. Atlanta, August 2001 (with D. Pavlov).

Identifying disease clusters in populations with non-uniform density by k nearest neighbor model: Joint Statistical Meetings, Indianapolis, August, 2000 (with D. Pavlov).

"Optimality" of the maximum cell count in cluster detection. Joint Statistical Meetings, Indianapolis, August, 2000 (with L. Kay and C.L. Wood).

Predicting cognitive decline in Alzheimer's disease. Poster presentation: Joint Statistical Meetings, Baltimore, Maryland, August 11, 1999 (with M.S. Mendiondo and J.W. Ashford).

Components of chi-square statistics for detecting space-time disease clustering (with G.C. Cline), Joint Statistical Meetings, Anaheim, August 10, 1997.

On computing the Ederer-Meyers-Mantel statistic. American Statistical Association Annual Meetings, August, 1993.

A note on Tango's index of clustering. Biometrics Society, ENAR Spring Meetings, March, 1990.

Measuring the severity of disease clustering. Eastern Regional Meetings of the Biometrics Society, March, 1991.

A stochastic model for the incidence of AIDS. International Biometrics Conference, Namur, Belgium, July 19, 1988.

A note on tests for randomness in sparse spatial patterns (with R. Saunders and G. Funk). Eastern Regional Meetings of the Institute of Mathematical Statistics, March, 1980.

Asymptotic multivariate distributions for arrays of binary variables II: the normal case (with R. Saunders and G. Funk). American Statistical Association Annual Meetings, August, 1978.

Asymptotic multivariate distributions for arrays of binary variables I: the Poisson case. Central Regional Meetings of the Institute of Mathematical Statistics, June, 1978.

Estimation for carrier-borne epidemics (with R. Saunders). Western Regional Meetings of the Biometrics Society, June, 1975.

Solutions to the forward equations of Gart's epidemic model. NSF Conference on the Mathematical Theories of Population, August, 1974.

The transition probabilities of a bounded bivariate pure death process. Central Regional Meetings of the Institute of Mathematical Statistics, June, 1974.

On the extended simple stochastic epidemic model. Eastern Regional Meeting of the Biometrics Society, June, 1973.

EXTRAMURAL GRANT SUPPORT:

Models and statistical techniques for clustering. National Science Foundation, May, 1979 to November, 1981 (with G.M. Funk and R. Saunders).

Cervix cancer cf-252 neutron therapy. American Cancer Society, January, 1983 to December, 1986 (Y. Maruyama, P.I.)

A national collegiate survey on eating attitudes and behavior. League of Women Voters, August, 1985 to June, 1986 (L. Humphries, P.I.).

Monoclonal antibodies in the treatment of kidney graft rejection. National Institute of Health, August, 1985 to July, 1988 (J. Thompson, P.I.).

Field survey of adult women in Eastern Kentucky, State of Kentucky and Center for Disease Control, Atlanta, January, 1986 to June, 1986 (Philip Roeder, P.I.).

Smokeless tobacco use among Kentucky youth: a feasibility study. National Cancer Institute, September, 1986 to August, 1987 (Melody Powers Noland, P.I.)

Probabilistic modeling and inferential problems with applications to engineering and medicine. Component project 4 of the Kentucky EPSCoR program, NSF (P.I. W.S. Griffith) October, 1986 to September, 1992.

Epidemic theory for an infectious disease of the S-I-S type, January, 1988 to December, 1988. NATO (travel grant for international collaboration with C. Lefevre of University of Brussels).

Rural adolescent family life: health and well being, January, 1988 to March, 1989, Office of Adolescent Pregnancy Programs (Sarah Quandt, P.I.).

Neutron interstitial brachytherapy using californium-252 and beam radiation for the treatment of large localized hemisphere malignant glioma. October, 1987 to October, 1991, National Cancer Institute, (Roy Patchell, P.I.).

Single-mother families: predictors of health outcomes. September, 1988 to February, 1991. National Institutes of Health (Lynne A. Hall, P.I.).

Clinical trials for use of monoclonal antibodies in the prevention of kidney graft rejection. July, 1988 to June, 1992, National Institutes of Allergic and Infectious Diseases (John Thompson, P.I.).

Nutritional strategies and dietary status of rural elderly. May, 1989 to April, 1991, National Institute on Aging (Sarah Quandt, P.I.).

Respiratory afferents in the control of breathing. April, 1989 to March, 1994, National Heart, Lung and Blood Institute (Donald Frazier, P.I.).

High-tech home care for children with chronic health conditions. October, 1989 to September, 1991, Maternal and Child Health Program (Juanita Fleming, P.I.).

Alzheimer's Disease Research Center. August, 1990 to July, 1995. National Institute on Aging (William Markesbery, P.I.).

Farm family health and hazard surveillance. October, 1990 to September, 1995. National Institute of Occupational Safety and Health / Center for Disease Control (Robert McKnight, P.I.).

Alzheimer's disease, dental amalgams, and mercury. September, 1991 to June, 1996. National Institute on Aging (William Markesbery, P.I.).

General clinical research center. December, 1991 to November, 1996. National Clinical Research (Emery Wilson, P.I.).

Prevention of tobacco use among high-risk adolescents. May, 1992 to April, 1996. National Cancer Institute (Melody Noland Powers, P.I.).

Surgery for spinal cord compression due to cancer. August, 1991 to July, 1997. National Cancer Institute (Roy Patchell, P.I.).

The impact of specialty on cesarean section rates. April, 1992 to September, 1993. ANCPR (William Hueston, P.I.).

Calcium regulation in brain aging and Alzheimer's disease. July, 1992 to June, 1997. National Institute on Aging (Phillip Landfield, P.I.)

Central highlands Appalachia leadership on cancer. September, 1991 to September, 1997. National Cancer Institute (Gil Friedell, P.I.).

Southeast Center for Agricultural Health and Injury Prevention. September, 1992 to September, 1997. Center for Disease Control and National Institute on Occupational Health and Safety (Robert McKnight, P.I.).

Mechanisms of brain injury and its systemic sequela. April, 1994 to March, 1999. National Institute on Neurological Diseases and Stroke (B. Young, P.I.).

Drug use by dentists and dental students: prevalence and use in the workplace. September, 1994 to August, 1997. National Institute on Drug Abuse (R.B. Clayton, P.I.).

Breakdown of amalgam margins: a microstructural study. June, 1992 to May, 1995. National Institute of Dental Research (Richard J. Mitchell, P.I.).

AIDS prevention for drug injectors in Kentucky. June, 1993 to May, 1995. National Institute of Drug Abuse (Carl Leukefild, P.I.).

Trial of predictive algorithm to transplant high PRA patients. August, 1995 to July, 1998. National Heart, Lung and Blood Institute (John Thompson, P.I.).

Statistical analysis of groundwater monitoring data. February, 1995 to June, 1995. Natural Resources and Environmental Protection Cabinet, Kentucky (Richard Kryscio, P.I.).

Respiratory afferents in the control of breathing. February, 1995 to November, 1999. National Heart, Lung and Blood Institute (Donald Frazier, P.I.).

Alzheimer's Disease Research Center. May, 1995 to June, 2011. National Institute on Aging (William Markesbery, P.I.).Core B: Biostatistics and Data Management (Richard Kryscio, P.I.).

Aging of central dopaminergic systems in primates. December, 1996 to November, 2001. National Institute on Aging (Don Gash, P.I.).

Brain oxidation in the pathogenesis of Alzheimer's disease. December, 1996 to November, 2001. National Institute on Aging (William Markesbery, P.I.).

General Clinical Research Center. December, 1996 to November, 2001. National Clinical Research (Emery Wilson, P.I.).

Statistical methodology in Alzheimer's disease research (conference grant). May 15, 1997 to April 30, 1999. National Institute on Aging and National Institute on Neurological Diseases and Stroke.

Statistical analysis of HIV/AIDS policy and educational assessment survey. July, 1997 to October, 1997. Kentucky Department of Education (Richard Kryscio, P.I.).

Detection of presymptomatic Alzheimer's disease with fMRI. October, 1997 to September, 2000. National Institute on Aging and National Institute on Neurological Diseases and Stroke (Charles Smith, P.I.).

Minority Supplement, Program Project Grant: Brain oxidation in the pathogenesis of Alzheimer's disease (salary and travel support for a postdoctoral appointment in biostatistics: Dr. Marta Mendiondo). July 1, 1998 – April 30, 2000. National Institute on Aging.

Statistical analysis of HIV/AIDS policy and educational assessment survey. August, 1998 to November, 1998. Kentucky Department of Education (Richard Kryscio, P.I.).

Restoration of dopamine function in Parkinson's disease. September, 1999 to August, 2009. National Institute of Neurological Diseases and Stroke (Greg Gerhardt, P.I.).

Assessing the burden of colorectal cancer. September, 1999 to August, 2000. Centers for Disease Control. (Claudia Hopenhayn-Rich, P.I.).

Ovarian cancer screening: psychobehavioral outcomes. March, 2000 to February, 2008. National Cancer Institute (Michael Andrykowski, P.I.).

MRI probes of BBB integrity HIV dementia. NGA. September, 2000 to August, 2005. (Malcolm Avisom, P.I.).

MR predictors of response to HAART in HIV dementia. NGA. September, 2000 to August, 2005. (Joseph Berger, P.I.).

Dosing and safety of CsA for treatment of severe head injury. August, 2001 to July, 2005 (Byron Young, P.I.).

Prevention of Alzheimer's disease by Vitamin E and Selenium. October, 2001 to September, 2006 (William Markesbery, P.I.).

Statistical Methodology in Alzheimer's Disease Research (2nd conference grant). February, 2002 – January, 2004. National Institute on Aging.

General Clinical Research Center. May, 2002 – April, 2006 (Emory Wilson, P.I.). National Center for Research Resources.

Detection of presymptomatic Alzheimer's Disease by fMRI. December, 2002 – November, 2007 (Charles Smith, P.I.). National Institute on Aging.

Autologous Dendritic Cell Vaccines in NSCLC April, 2004 – March, 2006. (Edward A. Hirschowitz, PI) National Cancer Institute

Screening for ovarian cancer: psychobehavioral outcomes. September, 2004 to August, 2008 (Michael Andrykowski,, P.I.) National Cancer Institute

Safety and Operational Impacts of Design Element Trade-Offs July, 2004 – January, 2007 (Nikiforos Stamatiadis, PI) Department of Transportation

Career training in therapeutics and translational research. September, 2000 – August, 2006 (Steve Shedlofsky, P.I.). National Center for Research Resources.

Early treatment of ALS with nutrition and NIPPV. August, 2004 – December, 2006. (Edward Kasarskis, P.I.) National Institute on Neurological Diseases and Stroke.

Center for the biologic basis of oral/systemic diseases (CBBOSD). October 2004 – July 2009. (Jeffrey Ebersole, P.I.) National Center for Research Resources, COBRE grant. P.I. Biostatistics /Bioinforrmatics Core.

Center of Biomedical Research in Excellence for Women's Health (COBRE-WH) September, 2005- April, 2010. (Thomas Curry, P.I.) National Center for Research Resources.

Neuroimaging studies of depression in Parkinson's disease (Lee Blonder, P.I.) National Institute of Mental Health July 2006 – June 2010.

The role of NSMase-2 in Aging (Mariana-Karashian, P.I.) National Institute on Aging August 2006-July, 2011.

Lab on a chip system for saliva based diagnosis (Craig Miller, P.I. subcontract with U.Texas) National Institute of Dental Research September, 2006-August, 2008

CATSBI Trial Planning Grant: Cyclosporine in Traumatic Brain Injury (Bryon Yung, P.I.) National Institute for Neurological Diseases and Stroke. October 2007-September 2008.

CDART-Center for Drug Abuse Research Translation (Mike Bardo, P.I.) National Institute of Drug Abuse. October 2007 – September 2012

Cyropreparation of PBMC for immunotherapy and immune assessment studies (JohnYanelli, P.I.) National Cancer Institute July 2008- April 2010

Calpain as a therapeutic target for TBI (Jim Geddes, P.I.) National Institute on Neurological Diseases and Stroke, May, 2009 – April, 2012

Dynamics of sleep fragmentation in the elderly (Gene Bruce, P.I.), National Institute on Aging. August, 2008 – June, 2010

Academic-Community coalition for a School Based Obesity Prevention/Treatment Program (J.Perman, P.I.) Natioanl Isntitue on Child Health and Development. August, 2008- June, 2010.

Aging of frontal structure in Down syndrome and dementia (Elizabeth Head, P.I.) National

Institute on Aging. September, 2009 – August, 2014.

Center for the biologic basis of oral/systemic diseases (CBBOSD). August,2009-July,2014 (Jeffrey Ebersole, P.I.) National Center for Research Resources, COBRE grant.
P.I. Biostatistics /Bioinforrmatics Core.

Pulmonary Stress Induced by Hyperthermia: Role of Airway Sensory Nerves (Luan Lee P.I.) U.S. Army Medical Research & Material Command. September 2010 – September, 2013.

Novel Assay Identifies all MicroRNA Targets in Alzheimer and Normal Aged Brains. (Peter Nelson, P.I.) NIA, June, 2010 – May, 2012.

Development of a multianalyte Lab-on-a-Chip system for Saliva Based Diagnostics (Craig Miller, P.I., subcontract with Rice University) March,2101 – February, 2011.

Voxel Based Relaxometry Analysis of ADNI Images (Peter Hardy, P.I.) NIA, June, 2010 – May, 2012.

Alzheimer's Disease Center (Linda van Eldik, P.I.) NIA July 2011- June 2016. Core B: Biostatistics and Data Management Core (Richard Kryscio, P.I.) Also, Associate Director of the ADC

Kentucky Center for Clinical and Translational Science (Philip Kern, P.I.) (Kryscio- Leader of: Biostatistics, Epidemiology, and research Design Key function), NCRR, May, 2011 – Feb., 2016.

Role of Impaired Cognitive States and Risk Factors in conversion to Mixed Dementias. (Richard Kryscio and Frederick Schmitt, co-P.I.s), NIA, September 2011 – August, 2016.

CDART-Center for Drug Abuse Research Translation. (Bardo, P.I.), 7/15/12-6/30/18. Role: co-investigator on the Statistics and Psychometrics Core (Charnigo, P.I. of core).

Aging, Neuromuscular Behavior and risk of Occupational Low Back Pain (Bazgari, P.I.) NIOSH. 7/1/12-6/30/13. Role: co-investigator.

Statistical Genetics Methods for Mixed Pathologies (Fardo P.I.) 8/15/13 – 5/31/16, NIA,
Role: co mentor with Peter Nelson on this K25 award.

Rigidity and Osseointegration of Implants Intended for Orthodontic Applications. (Huja, P.I.) 07/01/12 – 06/30/13, American Association of Orthodontics Foundation.

Early Detection and Prevention of Mild cognitive Impairment due to Cerebrovascular Disease (Jicha, P.I.) NINR, 09/26/12 – 06/30/17.

Modulation of microRNA Pathways by Gemfibrozil in Predementia Alzheimer Disease (Jicha, P.I.), NIA, 07/15/13 – 06/30/16.

STTR: Delivery of Polyphenols for Treatment of Gingivitis – Phase II. (Craig Miller, P.I.) NIDCR, 02/01/13-08/31/13.

Devoloping a Virtual ALS Center at a Remote site Incorporating regional Resources. (Kasarskis, P.I.), ALS Association, 01/01/13-12/31/14.

Spinal loads during activities of daily living: influence of unilateral lower limb. (Babak Bargazi, P.I.) NICHD, September 2016 – August, 2018.

Role of TRV1 in asthma exacerbation. (Lu-Yuan Lee, PI) NIAID, January 2016-December, 2018.

In vivo evaluation of the safety and efficacy of extracorporeal circuits (Dongfang Wang, PI) Xenios AG, May, 2015-November, 2016.

Real osteodystrophy: a fresh approach. (Hartmut Malluche, PI). NIDDK, July, 2105 to June, 2020.

Preclinical development of a selective suppressor of neuroinflammation in MCI/AD (Linda van Eldik, PI) NIA May 2016-April, 2018.

Alzheimer's Disease Center (Linda van Eldik, P.I.) NIA July 2016- June 2021. NIA, Core B: Biostatistics and Data Management Core (Richard Kryscio, P.I.) Also, Associate Director of the ADC.

Small vessel disease biomarkers in a longitudinally followed cohort of elderly (Donna Wilcock, PI) NIA, September 2016-June, 2021.

SBIR (Phase II): Mouth barrier rinse of sustained release polycurcumin to oral cancer. (Thomas Dziuba, PI) August, 2016-July, 2019.

Contributions of Alzheimer's pathology and cerebrovascular factors to cognitive aging. (Brain Gold, PI) September, 2017-April, 2022.

Appalachian Center for Cellular Transport in Obesity Related Disorders (ACCORD). NCATS (Philip Kern, P.I.) February 2018-January 2020.

A novel strategy to overcome the P-gp/BCRP drug efflux system at the blood brain level. (Bjoern Bauer, P.I.) NINDS, August 2018-July 2023.

Predictive neurophysiological biomarkers for Alzheimer's disease and related dementias. (Yang Jiang, P.I.) NIA September 2018-August 2020.

First-in-human SAD & MAD trials for MW151, a novel Alzheimer's disease drug candidate that attenuates proinflammatory cytokine dysregulation. (Linda van Eldik, P.I.) NIA February 2019- November 2021.

Role of Impaired Cognitive States and Risk Factors in conversion to Mixed Dementias. (Richard Kryscio, Erin Abner, and Lei Yu, co-P.I.s), NIA, September 2019 – January, 2024

Novel therapeutic strategies to resolve neurovascular inflammation and repair blood-brain barrier (Bjoern Bauer, P.I.) NINDS, June 2020-March 2025.

Identifying associations between brain iron, neurocognitive networks, and protective Factors.(Brain Gold, PI) NIA May 2021-February 2026.

Kentucky Center for Clinical and Translational Science (Phil Kern, P.I.) July 2016 – June 2026. NCATS Leader of the Biostatistics, Epidemiology, and Research Design key function.

Alzheimer's Disease Research Center (Linda Van Eldik, P.I.) co-lead, Data Management and Statistics Core and Associate Director of the Center. NIA. August 2021- June 2026.

Reduced BBB water exchange as a preclinical biomarker of small vessel disease. (Brain Gold, PI) NINDS, February,. 2022-January 2025.

Blood brain barrier repair in Alzheimer's disease with epilepsy. (Anika Hartz, PI) NIA. May 2022-April 2027.

TEACHING EXPERIENCE:

Courses Taught: Statistical Inference, Introduction to Probability, Regression Analysis, Multivariate Methods, Design and Analysis of Experiments, Applied Probability Models, Introduction to Stochastic Processes, Sampling Techniques, Consulting Statistics, Clinical Trials Design and Methodology,, Biostatistical Methods I, Biostatistical Methods II, Proseminar in Biostatistics, Advanced Data Analysis, Design and Analysis of Health Surveys, Survival Analysis, Advanced Survival Analysis.

Departmental nominee for a University-wide Excellence in Teaching Award, Department of Mathematical Sciences, Northern Illinois University, 1978.

SELECTED UNIVERSITY SERVICE:

Promotion and Tenure Academic Area Advisory Committees:

Dean's Level: College of Arts and Sciences, 1986-89 (Chair, 1988-89)
College of Public Health 2006-present
University Level: Physical and Engineering Sciences, 1993-94.

Scientific Advisory Committees at U.K.:

General Clinical Research Center, 1985 – 2005;
Markey Cancer Center, 1983-88, and 1993 – 2003;
Tobacco and Health Research Institute, 1990 – 1998 (Chair, 1998);
Survey Research Center, 1985 – 1994;
College of Medicine Grant Reviews, 1984 – 1992;
Chair, Safety and Monitoring Committee, IGF-1 plus growth factor therapy for head trauma clinical trial, 1997 – 1999.
Chair, Safety and Monitoring Committee, Cyclosporine for head trauma: Phase I study, 2000- 2001.
Chancellor's (Medical Center) Committee on Scientific Integrity, 2000-2001.
Noindemnified Protocol Committee, 2006-present
Data Safety Monitoring Board, Center for Clinical and Translational Science, 2010-present.
GI SPORE Advisory committee, Markey Cancer center, 2010-2012.
Biomedical Informatics Director Search Committee, co-chair, 2010.
Leadership Committee, CCTS, 2009-present.
Scientific Advisory Committee CCTS, 2009-2012
Clinical Services Core Research Committee. CCTS, 2012-present.
Internal Advisory Board: Markey Cancer Center: 2012-present
Chair, Internal Advisory Board: Biostatistics Shared Resources Facility, Markey Cancer Center, 2012-2017

Academic Council for the Medical Center: University Senate Liaison, 1992-1995

University Research Professorship Selection Committee: 1998-2000; 2012-present

University Research Advisory Committee: 1999- 2005

Graduate School Fellowship Committee: 2010

College of Public Health: Dean Review Committee. Fall, 2009.

Doctoral Thesis Advisor:

Dr. James Booth, Professor, Program in Statistics, Cornell University. J. Gani, co-director

Dr. Kerry Barker, 1988, Biostatistical Manager, Baxter Healthcare

Dr. Mary Kay Rayens, 1992, Professor, College of Nursing, University of Kentucky

Dr. Patrick Peterson, 1995, Biostatistician, Eli Lilly

Dr. Gary C. Cline, 1997, Biostatistician, Proctor and Gamble

Dr. Lisa Whitis Kay, 1997, Assistant Professor, Department of Mathematics, Statistics, and Computer Science, Eastern Kentucky University

Dr. Cameron T. Alsup, 2000, Biostatistician, Merck Research Laboratories

Dr. Dmitri Pavlov, 2001, Biostatistician, Pfizer

Dr. Xuejing Peng, 2003, Research Assistant Professor, Cleveland Clinic, Arnold Stromberg, co-director

Dr. Juan Carlos Salazar, 2004. Associate Professor, National University of Columbia

Dr. Sergey Tarima, 2005, Assistant Professor, Medical College of Wisconsin

Dr. Svetla Slavova, 2008, Research Assistant Professor, Department of Biostatistics. UK College of Public Health

Dr, Lei Yu, 2008, Assistant Professor, Department of Neurological Sciences, Rush Medical University

Dr. Liou Xu, 2010, Research Minority Center, Washington. D.C.

Dr. Yushun Lin, 2010, Citibank. Long Island, N.Y.

Dr. Erin Abner, 2013, Assistant Professor, joint appointment: Department of Epidemiology, UK College of Public Health and Sanders-Brown Center on Aging.

Dr. Shaoceng Wei, 2015, Biostatistician, Medpace.

Dr. Wenjie Lou, 2016, Statistician, Bank of America, Charlotte, NC

Dr. Lijie Wan, 2016, Statistician, Bank of America, Charlotte, N.C.

Dr. Zhiheng Xie, 2016, Statistician, Bank of America, Charlotte, N.C.

Dr. Pei Wang (joint with Xiangrong Yin) 2021, Assistant Professor, Department of Statistics, Miami University of Ohio

Post Doctoral Advisor:

Dr. Marta Mendiondo, 1998-2000. Assistant Professor, Department of Biostatistics, UK College of Public Health

Doctor of Public Health

Dr. Sabrina Walsh, 2008, Kentucky Injury and Prevention Research Center. Research Assistant Professor, Department of Epidemiology, UK College of Public Health.

Dr. Bin Huang, Dr.P.H. (co-chair with Brent Shelton) 2009, Assistant Professor, Division of Cancer Biostatistics, UK College of Public Health

MEMBERSHIPS:

American Statistical Association:
Elected, Chair, Academic Representatives Session, Joint Statistical Meetings, 1999

Biometrics Society:
Member, Regional Advisory Board of ENAR, 1985 – 1988

SIGMA XI:
President of Northern Illinois University Chapter, 1980 – 1981

Southern Regional Committee on Statistics (SRCOS): 1992 – 1998
Program Chair, Summer Research Conference, 1995

Kentucky Chapter of the American Statistical Association:
Vice President, 1991 – 1994
President, 1995 – 1998
co-Chair, Special Awards Judging in Statistics, International Science and Engineering Science Fair, Louisville, May 12-13, 1997

Statistics Program Representatives Meeting:
program chair (elected) Joint Statistical Meetings, Baltimore, Maryland, August 10, 1999

Memberships on invited review panels:

Special emphasis panels and Study Sections for the National Institute on Aging:
Healthy aging and senile dementia, Washington University, St. Louis, October, 1997
Alzheimer's Disease Data Coordinating Center, Bethesda, Maryland, December, 1998
Claude Pepper Centers Review Team, Bethesda, Maryland, March, 1999
Member, site review team: University of Maryland, Baltimore, May, 1999
Case Western Reserve University, May, 1999
Claude Pepper Centers Review Team, Bethesda, Maryland, November, 2000
Alzheimer's Disease (AD) Centers Review Team, January, 2001
Statistics Coordinating Center for Parkinson's Disease Clinical Trials, NINDS, Charleston, S.C. Aug. 2001
Age related changes of cognition in health and disease, Bethesda, MD, March, 2002
Resource Centers and Coordinating Centers for Minority Aging Research, Bethesda, June, 2002.
Study section in Alzheimer's Disease, Bethesda, MD, February, 2003
National Center for Complementary and Alternative Medicine, April, 2003
Healthy aging and senile dementia, Bethesda, MD, March, 2003
Alzheimer's Disease Centers Review Team, Bethesda, Md., Sept., and Oct., 2003
Adult children study, Bethesda. MD March, 2005.
Fronto temporal dementia PPG from UCSF, teleconference, October, 2006 & July, 2011

Antimicrobial Resistance Research. CDC, Atlanta, May, 2006
Dominantly Inherited Alzheimer Network, teleconference, January, 2008
AD Registry, chair of teleconference review, July, 2008
Healthy aging and senile dementia, teleconference, August, 2008.
Ag Center, East Carolina University, CDC, Feb. 2009
Adult changes in thought project, chair, teleconference, March 30, 2009.
Impact of Amyloid on the Aging Brain, teleconference, November 9, 2009
Estrogen and the Aging Brain, December 2, 2009; April 26, 2010.
NAME Study Section, substitute March 2007; June, 2011; October, 2010 & 2011;
NAME Study Section, regular member Feb, June, October: 2012-2015
Frontotemporal dementia, July, 2011
NCRR Review Committee for CTSA awards Rockville, MD, Oct., 2011
DIAN (Dominantly Inherited Alzheimer Network, December, 2012
The LIFE Extension Study, June, 2013
AD Review Committee, AD prevention Trials, July, 2013
AD Review Committee, AD Phase I Clinical Trials, July, 2013; Oct 2015 & 2016
AD Research Centers, Oct, 2013 and 2014
AD Patient Registry: March and Oct, 2014. Chair of Review Committee (teleconference).
CTSA Center awards, NCATS, Rockville, Md., April, 2015.
CTSA innovation awards: letters of intent. NCATS, September, 2015 (mail in review)
Biomarkers of Alzheimer's Disease in down syndrome, July 29, 2015 (teleconference)
AD pilot clinical trials. NIA, October, 2015; March and October, 2016 (teleconference)
Alzheimer's disease animal model resources. NIA, May, 2016 (telephone review)
Collaborative Innovation Awards & Translational Science Award Program, NCATS, Rockville, Md., May, 2016
Estrogen, the aging brain and Alzheimer;s disease. NIA. May,2016 (teleconference)
Dog Aging Program Project Grant, NIA, September, 2016 (teleconference)
Frontotemporal dementia: genes, images, and emotions, NIA, Sept, 2016 (teleconference)
EPSE Study Section, review 3 grants (teleconference) NIA, February, 2017
SEP: Behavioral genetic, neuro & musculskeletal epi.(teleconference), NIA, March, 2017
SEP: Challenging engagement on elderly cognition, (teleconference) NIA, Sept., 2017.
SEP: Pragmatic trials in dementia care, (teleconference) NIA, June, 2017.
SEP: Drug repurposing for AD. NIA, (teleconference), Oct., 2017.
SEP: Pepper Centers review, NIA, (Bethesda. Md.), Feb. 2018., 2020 and 2021..
SEP: Alzheimer's disease animal model resources.(teleconference). May, 2018
SEP: Pragmatic trials in dementia care (teleconference) NIA, June, 2018
SEP: Alzheimer Disease Research Centers review, NIA, (Bethesda, Md.), Sept., 2018
SEP: Evaluation of Clinical Applications, NIA, June, 2019.
SEP: Pilot Clinical Trials in Alzheimer's Disease, March,2019 (teleconference)
SEP: Alzheimer's Disease and its Related Dementias, NIA, July, 2019.
SEP: Precision monitoring and assessment in the Framingham Study, (teleconference) NIA, Feb., 2020
Aging Systems and Geriatrics Study Section, NIA, (teleconference), Oct., 2020
SEP: Review of Pepper Centers, NIA, by Zoom, February, 26, 2021
SEP: ZAG1 ZIJ-D NIA by Zoom, October, 29, 2021
SEP: Pragmatic clinical trials, NIA, by Zoom, March, 29, 2022
Social Sciences & Population Studies B Study Section, February, 2024

Motor Neuron Disease Association, England. August, 2012, one proposal.

Austrian Science Fund. June, 2012, one proposal.

Netherlands Organization for Health Research and Development, April, 2014, one proposal.

Netherlands Veni program ZonMw, one proposal, Sept., 2017

Member, Steering Committee, Member, National Alzheimer's Coordinating Center, 1999-2001

External Advisory Board, Alzheimer's Disease Research Center, University of Washington, Seattle, 1998 – 2001

Guest editor: special issue, *Statistics in Medicine* on Statistical Methodology in Alzheimer's Disease Research. Vol. 19, Nos. 11 & 12, June 2000 (with F. Schmitt).

Committee on Experimental Medicine, Gynecologic Oncology Group (GOG), Member, 2001-2006.

Moderator, Controversies in Clinical Trials Design Workshop, GOG Summer Symposium, Vancouver, B.C. July, 2002

Data and Safety Monitoring Committee, Member, Texas Scottish Rite Hospital for Children, Dallas, TX, AmSMART Project, 2002

Advisory Board in Alzheimer's Disease, Member, Sanofi-Synthelabo Inc., 2002

External Advisory Board, Einstein Aging Study, Albert Einstein College of Medicine, 2003-present

Guest Editor: special issue of *Statistics in Medicine* on Statistical Methodology in Alzheimer's Disease Research, II. (with F. Schmitt) Vol. 23, No. 2, January, 2004 (with F. Schmitt)

Neurology, Associate Editor, February, 2004 - present

Member: Scientific Review Committee, National Alzheimer's Disease Coordinating Center, 2005 – 2008.

External Advisory Board, Member, Alzheimer's Disease Research Center, University of Michigan,2006-2010.

Member, Data Safety Monitoring Board, Dimebon Clinical Trials, Pfizer, Inc, July, 2009 – December, 2010.

Member, Data Safety Monitoring Board, Dimebon Clinical Trials, Medivation Inc, August, 2009 – 2010.

Member, Scientific Advisory Committee, ALLTECH. Clinical trials in dementia. 2010-2015.

Clinical Translational Science Awards: Center Reviews, NCRR, Rockville, Md. , October 13-14, 2011

External Advisory Board, Emory University Alzheimer's Disease Research Center, 2011-2023.

External Advisory Board, New York University Alzheimer's Disease Research Center, 2011-present.

External Advisory Board, UC Davis, Alzheimer's Disease Center, 2011-2019.

External Advisory Board, UT Southwestern, Alzheimer's Disease Center, 2011-2016.

Special Government Employee: FDA Scientific Advisory Committee for Peripheral and Central Nervous Systems, 2016 – present.

External Advisory Board, Stanford University, Alzheimer's Disease Research Center, 2015-present.

External Advisory Board, Wake Forest University, Alzheimer's Disease Center, 2016-present.

Associate Editor, Alzheimer's and Dementia: Translational Research and Clinical Interventions. 2015- present.

Member Grifols AMBAR Data Monitoring Committee. 2016-2017.

Member, Data Safety Monitoring Board, Alzheimer's Disease Cooperative Studies Group, 2002-present

Member, Data Safety Monitoring Board, Alzheimer's Translational Research Institute, University of Southern California, 2015-present.

Member, Data and Safety Monitoring Board, Tele-Savvy: an on line psychoeducation program for caregivers of persons living with dementia, Emory University, 2017 -2019

Member, Data and Safety Monitoring Board, Decreasing AD after delirium-exercise and cognitive training. University of Indiana Medical School, June, 2017 -2021.

Member, Scientific Quality Reviewer for the CTSA Consortium SRC Process Pilot Study, Tufts University, August, 2017

Associate Editor, Biostatistics and Epidemiology, 2017 to present.

Member, Editorial Board, Alzheimer's & Dementia, Translational Research & Clinical Interventions. 2018-present.

Member, Prevention and Early Treatment of Acute Lung Injury (PETAL) network Protocol Review Committee, NHLBI, 2015-2022.

Member, Data and Safety Monitoring Board, U.S. Study to Protect Brain Health through Lifestyle Intervention to Reduce Risk (U.S. POINTER trail), Alzheimer's Association, 2018-present.

Chair, Data and Safety Monitoring Committee, Phase I trial of TT301/MW189 for treating head injury, UK/Duke, 2018.

Member, Observational Studies Monitoring Board, Reasons for geographic and racial differences in stroke (REGARDS). March 2020-present.

Awards

Fellow, American Statistical Association, 1995

Chapter Service Award, Kentucky Chapter of the American Statistical Association, 2000

Paul Minton Award for outstanding service to statistical education and the profession, Southern Region Council on Statistics (SRCOS), September, 2006.

Inducted Delta Omega Gamma Chapter, Public Health, May, 2007.

University Research Professor, University of Kentucky, 2007-2008.

Grand Mentor Award, Center for Clinical and Translational Studies, March, 2015.

Last updated: 3/4/2024