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Richard John Kryscio

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BORN: December 19, 1944
Pottsville, Pennsylvania

MARITAL STATUS: Married, 1966; 5 children

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 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.
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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 und Oncologies*, 6: 257-264, 1990.
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66. VanNagell, J.R., DePriest, P.D., Puls, L.E., Donaldson, E.S., Gallion, H.H., Pavlik, E.J., Powell, D.E. and Kryscio, R.J. Ovarian cancer screening in asymptomatic postmenopausal women by transvaginal sonography. *Cancer*, 68(3): 458-462, 1991.
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PRESENTATIONS

Category A: Invited

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.

PREADVICE: 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:

- 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 from 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, 2006. 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 – May, 2009. (Jeffrey Ebersole, P.I.) National Center for Research Resources, COBRE grant.

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.

Alzheimer's Disease Center (William Markesbery, P.I.) National Institute on Aging, July 2006- June 2011. Core B: Biostatistics and Data Management Core (Richard Kryscio, P.I.)

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

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

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.

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 – present;
Markey Cancer Center, 1983-88, and 1993 – present;

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

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

University Research Professorship Selection Committee: 1998-2000

University Research Advisory Committee: 1999- 2005

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, Assistant Director, Office of Institutional Research, University of Kentucky

Dr, Lei Yu, 2008, Research Staff, Kentucky Injury Prevention Research Center

Post Doctoral Advisor:

Dr. Marta Mendiondo, 1998-2000. Currently an Assistant Professor, Department of Biostatistics, College of Public Health, University of Kentucky

Doctor of Public Health

Dr. Sabrina Walsh, 2008, Kentucky Injury and Prevention Research Center.

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 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 Centers Review Team, January, 2001

Healthy aging and senile dementia, Washington University, St. Louis, October, 1997

Age related changes of cognition in health and disease, Bethesda, MD, March, 2002

Resource Centers and Coordinating Centers for Minority Aging Research, Bethesda, MD, June, 2002.

Study section in Alzheimer's Disease, Bethesda, MD, February, 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

Substitute member, NAME Study Section, teleconference, March 2007

Dominantly Inherited Alzheimer Network, teleconference, January, 2008

AD Registry, chair of teleconference review, July, 2008

Healthy aging and senile dementia, teleconference, August, 2008.

Special emphasis panel for National Institute on Neurological Diseases and Stroke. Statistics

Coordinating Center for Parkinson's Disease Clinical Trials, August, 2001

Special emphasis panel for National Center for Complementary and Alternative Medicine, April, 2003

Special Emphasis Panel: Antimicrobial Resistance Research. CDC, Atlanta, May 10, 2006

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

External Advisory Committee, Member, 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 Safety Monitoring Committee, Member, Texas Scottish Rite Hospital for Children, Dallas, TX, AmSMART Project, 2002-present

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

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

External Advisory Board, Member, 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, January 2005 – 2008.

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