

COLLEGE OF PUBLIC HEALTH CURRICULUM VITAE

Michael P. Jones

June 20, 2018

I. EDUCATION AND PROFESSIONAL HISTORY

A. Education

<u>Institution</u>	<u>Field of Study</u>	<u>Degree Obtained</u>	<u>Degree Date</u>
University of Southern California, Los Angeles, California	Mathematics	BA	1972
University of California- Los Angeles, Los Angeles, California	Mathematics	MA	1975
University of Washington Department of Biostatistics, Seattle, Washington, United States	Cancer-Epi Traineeship	Post Graduate	1982
University of Washington Department of Biostatistics, Seattle, Washington, United States	Cancer-Epi Traineeship	Post Graduate	1986
University of Washington, Seattle, Washington	Biomathematics	PhD	1986

B. Professional and Academic Positions

<u>Position Title</u>	<u>Dates of Service</u>	<u>Location/Institution</u>
Self-Employed Math Tutor	1973-1974	UCLA, Los Angeles
Computer Programmer	1974-1975	Pacific State Hospital, Los Angeles
Statistician/Programmer	1975-1979	Environmental Health Service, Rancho Los Amigos Hospital, Downey
Instructor	1976-1979	Biometry Division, University of Southern California, Los Angeles
Research Assistant	1979-1980	Fred Hutchinson Cancer Research Center, Seattle

<u>Position Title</u>	<u>Dates of Service</u>	<u>Location/Institution</u>
Teaching Assistant	1981	Department of Statistics, University of Washington, Seattle
Visiting Research Associate	1983-1984	Department of Epidemiology and Statistics, Radiation Effects Research Foundation, Hiroshima, Japan
Assistant Professor	1986-1991	Department of Preventive Medicine and Environmental Health, College of Medicine, University of Iowa, Iowa City
Associate Professor (secondary)	1991-2000	Department of Statistics and Actuarial Science, College of Liberal Arts, University of Iowa, Iowa City
Associate Professor	1991-1999	Department of Preventive Medicine and Environmental Health, College of Medicine, University of Iowa, Iowa City
Visiting Professor	1995-1996	Department of Statistics, Oxford University, Oxford, United Kingdom
Associate Professor	1999-2000	Department of Biostatistics, College of Public Health, University of Iowa, Iowa City
Professor	2000-Present	Department of Biostatistics, College of Public Health, University of Iowa, Iowa City
Professor (secondary)	2000-Present	Department of Statistics and Actuarial Science, College of Liberal Arts, University of Iowa, Iowa City
Janssen Research Foundation Chair in Survival Analysis	2000	Center for Statistics, Universiteit Hasselt, Diepenbeek, Belgium
Professor (secondary)	2003-2006	Program in Public Health Genetics, College of Public Health, University of Iowa, Iowa City
Senior Scientist	2004-Present	Comprehensive Access & Delivery Research and Evaluation (CADRE), VA HSR&D Center of Excellence, Veterans Affairs Medical Center, Iowa City
Professor (secondary)	2009-Present	Public Policy Center, University of Iowa, Iowa City

C. Honors, Awards, Recognitions, and Outstanding Achievements

<u>Year</u>	<u>Title</u>
1972	Pi Mu Epsilon National Mathematics Honorary Fraternity
1986	First Prize – Biometrics (WNAR) 1986 student paper competition
1989	Vera Wenger Award, Stefan Banach International Mathematical Center in Warsaw, Poland (presentation of two invited lectures)
1991-1996	NIH First Independent Research Award (R29), National Institutes of Health
2003	Faculty Teaching Award, College of Public Health, University of Iowa
2016	BEHSR Aubrey Sheiham Award for Distinguished Research in Dental Public Health Sciences. Awarded for paper "Eliminating Medicaid Adult Dental Coverage in California Led to Increased Dental Emergency Visits and Associated Costs" in Health Affairs (2015) by Singhal A, Momany ET, Jones MP, Caplan DJ, Kuthy RA, Buresh CT, Isman R, Damiano PC., Behavioral, Epidemiologic, and Health Services Research Scientific Group, International Association for Dental Research
2017	Faculty Service Award, College of Public Health/University of Iowa
2018	Inducted into Delta Omega Honorary Society in Public Health

II. TEACHING

A. Teaching Assignments on a semester-by-semester basis (*classroom, seminar, teaching lab*)

1. University of Iowa

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
1986	63:261 Survival Data Analysis	3	12	Primary Instructor	100%
1987	63:161 Introduction to Biostatistics	3	21	Primary Instructor	100%
1987	63:162 Experimental Design & Analysis	3	9	Primary Instructor	100%
1987	63:171 Biostatistical Methods in Epidemiology Seminar	1	3	Team Teacher	50%

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
1988	63:261 Survival Data Analysis	3	12	Primary Instructor	100%
1989	63:161 Introduction to Biostatistics	3	41	Primary Instructor	100%
1989	63:162 Experimental Design & Analysis	3	29	Primary Instructor	100%
1990	63:172 Independent Study on Cohort Data Analysis	1	1	Primary Instructor	100%
1990	63:172 Independent Study on Survival Analysis	3	1	Primary Instructor	100%
1990	63:176 Biostatistical Methods	4	17	Primary Instructor	75%
1990	63:242 Statistical Methods in Epidemiology II	3	13	Primary Instructor	100%
1991	63:171 Special Problems: Cohort Data Analysis	1	5	Primary Instructor	100%
1991	63:242 Statistical Methods in Epidemiology II	3	10	Primary Instructor	100%
1991	63:261 Survival Data Analysis	3	8	Primary Instructor	100%
1992	63:171 Special Problems: Survival Data Analysis	3	1	Primary Instructor	100%
1992	63:221 Theory of Biostatistics I	4	7	Primary Instructor	100%
1993	63:261 Survival Data Analysis	3	14	Primary Instructor	100%
1994	63:221 Theory of Biostatistics I	4	10	Primary Instructor	100%

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
1995	63:222 Theory of Biostatistics II	4	10	Primary Instructor	100%
1996	63:221 Theory of Biostatistics I	4	6	Primary Instructor	100%
1997	63:176 Biostatistical Methods I	4	5	Primary Instructor	100%
1997	63:222 Theory of Biostatistics II	4	5	Primary Instructor	100%
1998	63:221 Theory of Biostatistics I	4	5	Primary Instructor	100%
1999	63:176 Biostatistical Methods I	4	13	Primary Instructor	100%
1999	63:222 Theory of Biostatistics II	4	5	Primary Instructor	100%
2000	171:251 Theory of Biostatistics I	4	5	Primary Instructor	100%
2001	171:252 Theory of Biostatistics II	4	4	Primary Instructor	100%
2001	171:261 Survival Data Analysis	3	9	Primary Instructor	100%
2002	171:251 Theory of Biostatistics I	4	14	Primary Instructor	100%
2003	171:242 Statistical Methods in Epidemiology II	3	10	Team Teacher	33%
2003	171:252 Theory of Biostatistics II	4	13	Primary Instructor	100%
2003	171:261 Survival Data Analysis	3	20	Primary Instructor	100%
2003	22S:299 Reading Research	1	1	Primary Instructor	100%

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
2004	171:162 Design & Analysis of Biomedical Studies	3	56	Primary Instructor	100%
2004	171:251 Theory of Biostatistics I	4	9	Primary Instructor	100%
2005	171:252 Theory of Biostatistics II	4	9	Primary Instructor	100%
2005	171:261 Survival Data Analysis	3	20	Primary Instructor	100%
2006	171:202 Biostatistical Methods II	4	16	Primary Instructor	100%
2006	171:271 Advanced Survival Analysis	3	6	Primary Instructor	100%
2007	171:261 Survival Data Analysis	3	19	Primary Instructor	100%
2007	171:282 Advanced Survival Seminar	1	4	Primary Instructor	100%
2008	171:251 Theory of Biostatistics I	4	12	Primary Instructor	100%
2008	171:281 Independent Study	3	1	Primary Instructor	100%
2009	171:252 Theory of Biostatistics II	4	12	Primary Instructor	100%
Spring 2010	171:202:AAA Biostatistical Methods II	4	12	Primary Instructor	
Spring 2010	171:280:033 Preceptorship in Biostatistics		1	Primary Instructor	
Spring 2010	171:300:033 Thesis/Dissertation		1	Primary Instructor	
Spring 2010	22S:299:017 Reading Research		1	Primary Instructor	

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
Summer 2010	22S:299:017 Reading Research		1	Primary Instructor	
Fall 2010	171:261:001 Survival Data Analysis	3	8	Primary Instructor	
Fall 2010	171:300:033 Thesis/Dissertation		1	Primary Instructor	
Fall 2010	22S:299:017 Reading Research		1	Primary Instructor	
Spring 2011	171:300:033 Thesis/Dissertation		1	Primary Instructor	
Spring 2011	22S:299:017 Reading Research		1	Primary Instructor	
Fall 2011	171:251:001 Theory of Biostatistics I	4	5	Primary Instructor	
Fall 2011	171:300:033 Thesis/Dissertation		1	Primary Instructor	
Fall 2011	22S:299:017 Reading Research		1	Primary Instructor	
Spring 2012	171:252:001 Theory of Biostatistics II	4	6	Primary Instructor	
Spring 2012	22S:299:017 Reading Research		1	Primary Instructor	
Fall 2012	171:261:001 Survival Data Analysis	3	13	Primary Instructor	
Spring 2013	171:290:001 Advanced Biostatistics Seminar		8	Primary Instructor	
Fall 2013	171:251:001 Theory of Biostatistics I	4	8	Primary Instructor	
Fall 2013	171:280:033 Preceptorship in Biostatistics		1	Primary Instructor	
Fall 2013	171:300:033 Thesis/Dissertation		1	Primary Instructor	

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
Fall 2013	EPID:7400 Epidemiology III: Theories (1 week)			Guest Lecturer	
Spring 2014	171:252:001 Theory of Biostatistics II	4	8	Primary Instructor	
Spring 2014	171:280:033 Preceptorship in Biostatistics		1	Primary Instructor	
Spring 2014	171:300:033 Thesis/Dissertation		1	Primary Instructor	
Fall 2014	BIOS:7210:0001 Survival Data Analysis	3	15	Primary Instructor	
Fall 2014	BIOS:7900:0033 Thesis/Dissertation		2	Primary Instructor	
Spring 2015	BIOS:7120:0001 Theory of Biostatistics II	4	6	Primary Instructor	
Spring 2015	BIOS:7900:0033 Thesis/Dissertation		2	Primary Instructor	
Fall 2015	BIOS:6650:0001 Comparative Effectiveness Research Methods for Observational Data	3	11	Primary Instructor	100%
Fall 2015	BIOS:7900:0033 Thesis/Dissertation		3	Primary Instructor	100%
Fall 2015	EPID:7400 Epidemiology III: Theories (1 week)			Guest Lecturer	
Spring 2016	BIOS:7120:0001 Theory of Biostatistics II	4	4	Primary Instructor	100%
Spring 2016	BIOS:7900:0033 Thesis/Dissertation		3	Primary Instructor	100%
Summer 2016	BIOS:7900:2074 Thesis/Dissertation		1	Primary Instructor	100%

<u>Semester/Year</u>	<u>Course Title/Number</u>	<u>Semester Hours</u>	<u># Students</u>	<u>Role</u>	<u>Percent Responsible</u>
Fall 2016	BIOS:7210:1 Survival Data Analysis	3	13	Primary Instructor	100%
Fall 2016	BIOS:7900:3311 Thesis/Dissertation		3	Primary Instructor	100%
Spring 2017	BIOS:7120:0001 Theory of Biostatistics II	4	5	Primary Instructor	100%
Spring 2017	BIOS:7900:5456 Thesis/Dissertation		2	Primary Instructor	100%
Fall 2017	BIOS:6650:0001 CER Methods for Observational Data		7	Primary Instructor	100%
Fall 2017	BIOS:6650:1 CER Methods for Observational Data		7	Primary Instructor	100%
Fall 2017	BIOS:7500:7901 Preceptorship in Biostatistics		1	Primary Instructor	100%
Fall 2017	BIOS:7900:6439 Thesis/Dissertation		2	Primary Instructor	100%
Spring 2018	BIOS:7120:0001 Theory of Biostatistics II		5	Primary Instructor	100%

B. Course Materials (syllabi, instructional web pages, computer lab materials) (Description only - *full materials to be included in promotion dossier*)

1990-1991 Spring 1991 - Developed a new 3 s.h. course (BIOS: 6210, formerly 171:242 and 63:242) Applied Survival and Cohort Data Analysis (formerly Statistical Methods in Epidemiology II) which consists of 10 weeks of survival data analysis and 5 weeks of cohort data analysis. The last 5 weeks was incorporated as a separate 1 s.h. course (63:243) Cohort Data Analysis which would be taken by students who had already taken the regular survival analysis course 63:261.

1992-1993 Fall 1992 - Developed a new 4 s.h. course (BIOS: 7110, formerly 171:251 and 63:221) Theory of Biostatistics I which goes through an intermediate level of mathematical statistics as found in Bickel, Doksum, Lehmann and Casella and also includes about 5-6 weeks on asymptotic theory including asymptotic likelihood theory.

1994-1995 Spring 1995 - Developed a new 4 s.h. course (BIOS: 7120, formerly 171:252 and 63:222) Theory of Biostatistics II. This course covers generalized linear models, model and data deficiencies (misspecified models, missing data, omitted covariates), nuisance parameters and Neyman structure, various likelihoods (conditional, marginal, profile, pseudo and others), numerical

methods for statistics (EM algorithm, Newton-type algorithms, numerical integration). Special topics are covered as time permits: e.g., the theory behind the bootstrap, propensity scores, multiple imputation, nonparametrics, other likelihoods, generalized linear mixed models.

2006-2007 Fall 2006 - Developed a new 3 s.h. course (BIOS: 7220, formerly 171:271) Advanced Survival Analysis which consists of two parts. In the first part a counting process/martingale foundation is laid out for the asymptotic theory of survival methods. Asymptotic properties are established for Kaplan-Meier, Nelson-Aalen and kernel estimators, nonparametric tests and Cox regression. The second part of the course involved working through journal articles, including model misspecification, multivariate survival methods (marginal, frailty), joint longitudinal and survival modeling, and others.

2012-2013 Spring 2013 - Developed a new 3 s.h. course (BIOS: 6550) Causal Inference (formerly called Comparative Effectiveness Research Methods for Observational Data). This course covers the new methodologies of causal inference including graphical models, propensity score matching methods, inverse probability weighted and doubly robust estimators, sensitivity analysis, mediation analysis, marginal structural models and heterogeneity of treatment effect.

III. SCHOLARSHIP

A. Publications or Creative Works

1. Peer-Reviewed Papers

1. Azen SP, Linn WS, Hackney JD, Jones MP, Schoentgen S (1977). A comparison of eight lung function indices in smoking and non-smoking office workers. *Lung*, 154:213-221. PMID: 916729
2. Hackney JD, Evans MJ, Bils RF, Spier CE, Jones MP (1977). Effects of 100% oxygen and food deprivation on cell division in lung alveoli of mice. *Exp and Mol Path*, 26:350-358. PMID: 862824
3. Azen SP, Linn WS, Hackney JD, Jones MP (1978). A factor analytic approach to an effective lung function screening protocol. *Amer J Public Health*, 68(1):49-53. PMC: PMC1653836, PMID: 623361
4. Linn WS, Buckley RD, Spier CE, Blessey RL, Jones MP, Fischer DA, Hackney JD (1978). Health effects of ozone exposure in asthmatics. *Am Rev Resp Dis*, 117:835-843.
5. Posin CI, Buckley RD, Clark KW, Hackney JD, Jones MP, Patterson JV (1978). Nitrogen dioxide inhalation and human blood biochemistry. *Arch Env Health*, 33(6):318-324. PMID: 736616
6. Avol EL, Jones MP, Bailey RM, Chang NN, Kleinman MT, Linn WS, Hackney JC, Bell KA (1979). Controlled exposures of human volunteers to sulfate aerosols: Health effects and aerosol characterization. *Am Rev Resp Dis*, 120(8):319-327. PMID: 47513
7. Linn WS, Jones MP, Bachmayer EA, Clark KW, Karuza SK, Hackney JD (1979). Effects of low-level ozone exposure on arterial oxygenation in humans. *Amer Rev Rep Dis*, 119:731-740.

8. Posin CI, Clark KW, Jones MP, Buckley RD, Hackney JD (1979). Human biochemical response to ozone and vitamin E. *J Toxicol Environ Health*, 5:1049-1058. PMID: 529340
9. Kleinman MT, Linn WS, Bailey RM, Jones MP, Hackney JD (1980). Effect of ammonium nitrate aerosol on human respiratory function and symptoms. *Environ Res*, 21:317-326. PMID: 7408802
10. Linn WS, Jones MP, Bailey RB, Kleinman MT, Spier CE, Fischer DA, Hackney JD (1980). Respiratory effects of mixed nitrogen dioxide and sulfur dioxide in human volunteers under simulation ambient exposure conditions. *Environ Res*, 22:431-438. PMID: 7408827
11. Kleinman MT, Bailey RM, Chang YC, Clark KW, Jones MP, Linn WS, Hackney JD (1981). Exposures of human volunteers to a controlled atmospheric mixture of ozone, sulfur dioxide and sulfuric acid. *J Amer Ind Hyg Assoc*, 42(1):61-69. PMID: 7223637
12. Hackney JD, Linn WS, Buckley RD, Jones MP, Wightman LH, Karuza SK, Clark KW, Blessey RL, Hislop HJ (1981). Vitamin E supplementation and respiratory effects of ozone in humans. *J Toxicol Environ Health*, 7:383-390. PMID: 7288894
13. Miller RC, Hiraoka T, Nakamura N, Tenou H, Kopecky KJ, Jones MP, Gould MN (1985). In vitro culture of human thyroid cells; methods and application to radiation biology. *J Radiat Res*, 26:269-282. PMID: 4067903
14. Hiraoka H, Miller RC, Gould MN, Kopecky KJ, Ezaki H, Takeichi N, Ito T, Jones MP, Clifton KH (1985). Survival of human normal thyroid cells after x-ray irradiation. *Int J Radiat Biol*, 47:299-307. PMID: 3872283
15. Miller RC, Hiraoka T, Kopecky KJ, Nakamura N, Jones MP, Ito T, Clifton KH (1987). Sensitivity to radiation of human normal, hyperthyroid and neoplastic thyroid epithelial cells in primary culture. *Radiat Res*, 111:81-91. PMID: 3602357
16. O'Gorman T, Woolson RF, Jones MP, Lemke JH (1988). A Monte Carlo study of three odds ratio estimators and four tests of association in several 2x2 tables when data are sparse. *Communications in Statistics-Simulation*, 17(3):813-835.
17. Biller J, Jones MP, Bruno A, Adams HP, Banwart K (1988). Seasonal variation of stroke - does it exist? *Neuroepidemiology*, 7:89-98. PMID: 3374731
18. Jones MP, Crowley J (1989). A general class of nonparametric tests for survival analysis. *Biometrics*, 45:157-170. PMID: 2655728
19. Jones MP, O'Gorman TW, Lemke JH, Woolson RF (1989). A Monte Carlo investigation of homogeneity tests of the odds ratio under various sample size configurations. *Biometrics*, 45:171-181. PMID: 2720050
20. Biller J, Bruno A, Adams HP, Godersky JC, Loftus CM, Mitchell VL, Banwart KJ, Jones MP (1989). A randomized trial of aspirin or heparin in hospitalized patients with recent transient ischemic attacks - a pilot study. *Stroke*, 20(4):411-447. PMID: 2648650
21. Radford JE, Burns CP, Jones MP, Gingrich RD, Kemp JD, Edwards RW, McFadden DB, Dick FR, Chen WB (1989). Adult acute lymphoblastic leukemia: Results of the Iowa HOP-L protocol. *Journal of Clinical Oncology*, 7(1):58-66. PMID: 2642541

22. Graff-Radford NR, Godersky J, Jones MP (1989). Variables predicting surgical outcome in symptomatic hydrocephalus in the elderly. *Neurology*, 39:1601-1604. PMID: 2586777
23. Jones MP, Crowley J (1990). Asymptotic properties of a general class of nonparametric tests for survival analysis. *Annals of Statistics*, 18(3):1203-1220.
24. Love BL, Biller J, Jones MP, Adams Jr HP, Bruno A (1990). Cigarette smoking: A risk factor for cerebral infarction in your adults. *Arch Neurol*, 47:693-698. PMID: 2189378
25. Biller J, Love BB, Marsh III EE, Jones MP, Knepper LE, Jiang D, Adams Jr HP, Gordon DL (1990). Spontaneous improvement after acute ischemic stroke. *Stroke*, 21:1008-1012. PMID: 2368100
26. O'Gorman TW, Woolson FR, Jones MP, Lemke JH (1990). Statistical analysis of K 2x2 tables: A comparative study for estimators/test statistics for association and homogeneity. *Environmental Health Perspectives*, 87:103-107. PMC: PMC1567816, PMID: 2269213
27. Lynch CF, Platz CE, Jones MP, Gazzaniga JM (1991). Cancer registry problems in classifying invasive bladder cancer. *Journal of the National Cancer Institute*, 83(6):429-433. PMID: 1999849
28. Russell JW, Biller J, Hajduczuk ZD, Jones MP, Kerber RE, Adams Jr HP (1991). Ischemic cerebrovascular complications and risk factors in idiopathic hypertrophic subaortic stenosis. *Stroke*, 22:1143-1147. PMID: 1822968
29. Roberts RO, Lynch CF, Jones MP, Hart M (1991). Medulloblastoma: A population-based study of 532 cases. *Journal of Neuropathology and Experimental Neurology*, 50(2):134-144. PMID: 2010773
30. Munger RG, Prineas RJ, Crow RS, Changbumrung S, Keane V, Wangsuphachart V, Jones MP (1991). Prolonged QT interval and risk of sudden death in southeast Asian men. *Lancet*, 338:280-281. PMID: 1677112
31. Jones MP (1991). Robust tests for survival data involving a single continuous covariate. *Scandinavian Journal of Statistics*, 18:323-332.
32. Davis CS, Jones MP (1992). Maximum likelihood estimation for the multinomial distribution. *Teaching Statistics*, 14:9-11.
33. Jones MP, Crowley J (1992). Nonparametric survival tests of the Markov model. *Biometrika*, 79:513-522.
34. Follett KA, Hitchon PW, Piper J, Kumar V, Clamon G, Jones MP (1992). Response of intractable pain to continuous intrathecal morphine: A retrospective study. *Pain*, 49:21-25. PMID: 1594178
35. Ryan J, Zwerling C, Jones M (1992). The effectiveness of preemployment drug screening in the prediction of employment outcome. *J Occup Med*, 34(11):1057-1063. PMID: 1432294
36. Cadwell FJ, Burns CP, Dick FR, Jones MP, Heckman KD, Weiner GJ, JA (1993). Minimally differentiated acute leukemia. *Leukemia Research*, 17(3):199-208. PMID: 8450670

37. Zwerling C, Sprince NL, Ryan J, Jones MP (1993). Occupational injuries: Comparing the rates of male and female postal workers. *American Journal of Epidemiology*, 138(1):46-55. PMID: 8333426
38. O'Gorman TW, Woolson RF, Jones MP (1994). A comparison of two methods of estimating a common risk difference in a stratified analysis of a multicenter clinical trial. *Controlled Clinical Trials*, 15:135-153. PMID: 8205804
39. Pomrehn PR, Jones MJ, Ferguson KJ, Becker SL (1995). Tobacco use initiation in middle school children in three Iowa communities: The results of the Iowa Program Against Smoking. *Journal of Health Education*, 26(2):92-100.
40. Ryan J, Zwerling C, Jones M (1996). Cigarette smoking at hire as a predictor of employment outcome. *J Occup Envir Med*, 38:928-933. PMID: 8877844
41. Jones MP (1996). Indicator and stratification methods for missing covariates in multiple linear regression. *Journal of the American Statistical Association*, 91:222-230.
42. Platz CE, Cohen MB, Jones MP, Olson DB, Lynch CF (1996). Is microstaging of early invasive cancer of the urinary bladder possible or useful? *Modern Pathology*, 9(11):1035-1039. PMID: 9267831
43. Jones MP (1997). A class of semiparametric regressions for the accelerated failure time model. *Biometrika*, 84:73-84.
44. Heckman KD, Weiner GJ, Davis CS, Strauss RG, Jones MP, Burns CP (1997). Randomized study of prophylactic platelet transfusion threshold during induction therapy for adult acute leukemia: 10,000/ μ L vs 20,000/ μ L. *Journal of Clinical Oncology*, 15:1143-1149. PMID: 9060557
45. Cowl CT, Jones MP, Lynch CF, Sprince NL, Zwerling C, Fuortes LJ (1998). Factors associated with fatalities and injuries from hot-air balloon crashes. *JAMA*, 279(13):1011-1014. PMID: 9533500
46. Zwerling C, Jones MP (1999). Evaluation of the effectiveness of low blood alcohol concentration laws for younger drivers. *Am J Prev Med*, 16(1S):76-80. PMID: 9921389
47. Jones MP (1999). Nonrobustness of information tests in detecting heterogeneity. *Canadian Journal of Statistics*, 27:771-779.
48. Wang HM, Jones MP, Burns TL (1999). Regression diagnostics for the class A regressive model with quantitative phenotypes. *Genetic Epidemiology*, 17:174-187. PMID: 10446465
49. Ephgrave KS, Buchmiller C, Jones MP, Cullen JJ (1999). The cup is half full. An analysis of clinical outcomes following feeding enterostomies. *Am J Surg*, 178(5):406-410. PMID: 10602538
50. Kline JN, Cowden JD, Hunninghake GW, Schutte BC, Watt JL, Wohlford-Lenane CL, Powers LS, Jones MP, Schwartz DA (1999). Variable airway responsiveness to inhaled lipopolysaccharide. *American Journal of Respiratory Critical Care Medicine*, 160:297-303. PMID: 10390415

51. Weyer PJ, Cerhan JR, Kross BC, Hallberg GR, Kantameni J, Breuer G, Jones MP, Zheng W, Lynch CF (2000). Municipal drinking water nitrate level and cancer risk in older women: The Iowa Women's Health Study. *Epidemiology*, 11:327-338. PMID: 11338313
52. Arbour NC, Lorenz E, Schutte BC, Zabner J, Kline JN, Jones M, Frees K, Watt JL, Schwartz DA (2000). TLR4 mutations are associated with endotoxin hyporesponsiveness in humans. *Nature Genetics*, 25:187-191. PMID: 10835634
53. Lorenz E, Jones M, Wohlford-Lenane C, Meyer N, Frees KL, Arbour NC, Schwartz DA (2001). Genes, other than TLR4, are involved in the response to inhaled LPS. *Am J Physiol: Lung Cell Mol Physiol*, 281(5):L1106-L1114. PMID: 11597901
54. Jones MP (2001). Unmasking the trend sought by Jonckheere-type tests for right-censored data. *Scandinavian Journal of Statistics*, 28:527-535.
55. Van Voorhis BJ, Romitti PA, Jones MP (2002). Family history as a risk factor for development of uterine leiomyomas. Results of a pilot study. *J Reprod Med*, 47(8):663-669. PMID: 12216434
56. Turvey CL, Conwell Y, Jones MP, Phillips C, Simonsick E, Pearson JL, Wallace R (2002). Risk factors of late-life suicide: A prospective community-based study. *Am J Geriatric Psychiatry*, 10(4):398-406. PMID: 12095899
57. Kolker JL, Damiano PC, Armstrong SR, Bentler SE, Flach SD, Caplan DJ, Warren JJ, Kuthy RA, Dawson DV, Jones MP (2004). Natural history of treatment outcomes for teeth with large amalgam and crown restorations. *Operative Dentistry*, 29(6):614-622. PMID: 15646215
58. Kolker JL, Damiano PC, Jones MP, Dawson DV, Caplan DJ (2004). The timing of subsequent treatment for teeth restored with large amalgams and crowns: Factors related to the need for subsequent treatment. *J Dent Res*, 83(11):854-858. PMID: 15505235
59. Saha C, Jones M (2005). Asymptotic bias in the linear mixed effects model under non-ignorable missing data mechanisms. *Journal of the Royal Statistical Society, Series B*, 67:167-182.
60. Zwerling C, Peek-Asa C, Whitten PS, Choi SW, Sprince NL, Jones MP (2005). Fatal motor vehicle crashes in rural and urban areas: Decomposing rates into contributing factors. *Injury Prevention*, 11:24-28. PMC: PMC1730169, PMID: 15691985
61. Jones MP, Bongin Y (2005). Linear signed-rank tests for paired survival data subject to a common censoring time. *Lifetime Data Analysis*, 11:351-365. PMID: 16133884
62. Kolker JL, Damiano PC, Caplan DJ, Armstrong SR, Dawson DV, Jones MP, Flach DS, Warren JJ, Kuthy RA (2005). Teeth restored with large amalgams and crowns: Factors that affect the receipt of subsequent treatment after ten years. *J Am Dental Assoc*, 136:738-748. PMID: 16022038
63. Wang HM, Jones MP, Storer BE (2006). Comparison of case-deletion diagnostic methods for Cox regression. *Statistics in Medicine*, 25:669-683. PMID: 16220484

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134. Roblin DW, Jones MP, Cram P, Lou Y, Edmonds SW, Hall SF, Saag KG, Wright NC, Wolinsky FD (2017). Does patient activation moderate or mediate an intervention communicating individualized fracture risk? *Journal of Behavioral Medicine*. (Submitted)
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136. Chi D, Jones MP (2017). The effects of medical well baby visits in promoting earlier first dental visits for children. (Revision under review). *Health Affairs*. (Submitted)
137. Jones MP (2018). Linear regression with left-censored covariates and outcome using a pseudo-likelihood approach. (Submitted)
138. Lou E, Jones MP, Sun W (2018). A sensitivity analysis method to assess the ratio of means as a causal estimand in clinical endpoint bioequivalence studies in the presence of intercurrent events. (In Preparation; Not Yet Submitted)
139. Hall SF, Wright NC, Wolinsky FW, Lou Y, Edmonds SW, Roblin DW, Jones MP, Saag KG, Cram P (2018). Osteoporosis overtreatment: A pre-specified subgroup analysis of the PAADRN trial. *Journal of Bone and Mineral Research*. (Revising to Resubmit)

2. Non-Peer-Reviewed Papers (reports, proceedings, etc.)

3. Books/Monographs

4. Chapters

1. Hackney JD, Linn WS, Avol EL, Jones MP, Bailey RM, Kleinman MT (1980). Human health effects of nitrogenous air pollutants: Recent findings from controlled environmental clinical studies (Chapter 19). SD Lee (Ed.), *Nitrogen Oxides and Their Effects on Health* Ann Arbor Science Publishers, Inc 307-314.
2. Hackney JD, Linn WS, Jones MP, Bailey RM, Julin DR, Kleinman MT (1980). Short-term respiratory effects of sulfur-containing pollutant mixtures: Some recent findings from controlled clinical studies (Chapter 11). DS Shriner, CR Richmond, SE Lindberg, eds. (Eds.), *Atmospheric Sulfur Deposition, Environmental Impact and Health Effects*, Ann Arbor Science Publishers, Inc 77-84.
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4. O'Gorman TW, Woolson FR, Jones MP, Lemke JH (1991). Statistical analysis of K 2x2 tables: A comparative study for estimators/test statistics for association and homogeneity. D Hoel and T Yanagawa (Eds.), *Biostatistics in Cancer Risk Assessment*, Tokyo:39-43.

5. Electronic Publications

6. Abstracts

1. Jones MP, Yoshida RK (1975). Fortran IV program to determine the proper sequence of records in a data file. *Educational and Psychological Measurement*, October:
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4. Avol EL, Jones MP, Bailey RM, Chang NN, Kleinman MT, Linn WS, Hackney JD, Bell KA (1978). Aerosol characterization and health effects of ammonium sulfate, ammonium bisulfate, and sulfuric acid aerosols in controlled human exposures. *Proceedings of the APCA Annual Meeting*, June:
5. Linn WS, Buckley RD, Spier CE, Blessey RL, Jones MP, Fischer DA, Hackney JD (1978). Health effects of ozone exposure in asthmatics *Health effects of ozone exposure in asthmatics* 26(2 Feb):136A. PMID: 655490
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7. Hackney JD, Linn WS, Buckley RD, Jones MP, Wrightman LH, Karuza SK, Blessey RL, Hislop JH (1978). Vitamin E supplementation and respiratory effects of ozone in humans. *Amer Rev Res Dis* 117(4,II Apr):238.
8. Hackney JD, Linn WS, Avol EL, Jones MP, Bailey RM, Kleinman MT (1979). Human health effects of nitrogenous air pollutants: Recent findings from controlled-environment clinical studies. *Proceedings of American Chemical Society*
9. Linn WS, Jones MP, Bachmayer EA, Spier CE, Fasciano SA, Avol EL, Hackney JD (1979). Short-term health effects of exposure to photochemical air pollution: A "controlled" laboratory study. *Am Rev Res Dis* 119(4,II Apr):228.
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11. Moore DB, Jones MP, Biller J, Olinger CP, Marler JR, Barsan W, Adams Jr HP, Brott T (1988). Lack of relationship between hematocrit and hemoglobin and outcome of acute cerebral ischemia. *Supplement II Circulation* 78(4 Oct).
12. Jones MP (1990). Robust tests for survival data involving a single continuous covariate. *Proceedings of the Biometrics (ENAR) Conference*
13. Heckman KD, Weiner GJ, Davis CS, Strauss RG, Jones MP, Burns CP (1998). Randomized study of prophylactic platelet transfusion threshold during induction therapy for adult acute leukemia: 10,000/ μ l versus 20,000/ μ l. *Year Book of Hematology*, Mosby-Year Book, Inc.:

14. Dvoracek MA, Jones MP, Olson DB, Andrews FR, Lynch CF, Cohen MB (1999). Prognostic markers in human prostatic adenocarcinoma: A population based study. *Modern Pathology*, 12:94A.
15. Cerhan J, Weyer P, Kross B, Hallbert G, Kantamneni J, Breuer G, Jones M, Zheng W, Lynch C (2000). A cohort study of nitrate levels in municipal drinking water and cancer risk. *Cancer Epidemiology*, 9:235.
16. Romitti PA, Squire RM, Jones MP, Lynch CF (2000). Evaluation of population-based method to identify affected relative pairs with cancer. *American Journal of Epidemiology Supplement*, 151:308.

7. Other

B. Areas of Research Interest/Current Projects

1. Survival analysis (Area of Research Interest)
2. Analysis of left-censored data (Area of Research Interest)
3. Causal inference (Area of Research Interest)
4. Environmental health studies (Current Project)
5. Health services research studies (Current Project)
6. Likelihood theory (Area of Research Interest)
7. Methods for informative dropout (Area of Research Interest)
8. Nonparametrics (Area of Research Interest)
9. Robust methods of regression (Area of Research Interest)
10. Semiparametric regression (Area of Research Interest)
11. Statistical methods for epidemiology (Area of Research Interest)

C. Sponsored Research (ALL grants)

(if you are not the PI, state your role or contributions - in a few sentences)

1. Grants Received

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
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R29 (CA 55212) National Cancer Institute Survival Analysis for Cancer Data Michael P. Jones <i>Principal</i>	50%	08/01/1991- 07/31/1997
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The primary goals of this grant on methodologic research in biostatistics are (1) to develop a robust version of Cox proportional hazards regression which is resistant to outliers (influential observations) among the covariates and (2) to develop semiparametric regression methods for matched-pair survival data.

N01 (CN 67008) National Cancer Institute Surveillance, Epidemiology and End Results (SEER) Program Charles F. Lynch <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	5%	08/01/1996- 07/31/2003
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Goals of the Iowa SEER Program are to: 1) describe the extent of cancer in Iowa in terms of incidence, mortality, and survival; 2) provide these data to the NCI SEER Program to enable their goals to be accomplished; 3) provide a resource for epidemiologic research into the cause of cancer, particularly related to the environment; and 4) be of service to local areas and people for planning of health care services and investigation of cancer clusters. In the Iowa Radon Lung Cancer Study, the Iowa SEER Program was a source of case-finding, control verification, and pathologic material retrieval.

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
N01 (CN-6708 Mod. 1) National Cancer Institute Effect of Cervical Cancer on Pregnancy Outcome Charles F. Lynch <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	5%	10/01/1996- 09/30/1999
<p><i>This is a population-based record linkage study of cervical cancer carcinoma-in-situ (CIS) incidence data with birth and fetal death certificates. The study is a collaborative effort between the Iowa Surveillance, Epidemiology, and End Results (SEER) Program and the Seattle, Washington SEER Program. The specific aims are to evaluate pregnancy outcome through 1) examining the influence of a history of cervical CIS; 2) evaluating the impact of diagnostic procedures and treatment regimens for cervical CIS; and 3) exploring the effects of demographic characteristics, reproductive history, and smoking behaviors.</i></p>		
R01 (CA 55212) National Cancer Institute Survival Analysis for Cancer Data Michael P. Jones <i>Principal</i>	30%	04/01/1998- 03/31/2001
<p><i>The primary goals of this grant on methodologic research in biostatistics are (1) to develop multivariate frailty models that accommodate complex family structure in proportional hazards regression and (2) to develop tests for heterogeneity in clustered data that do not rely on distributional assumptions for either the outcome variable or random effect.</i></p>		
R01 (HL 62628) National Heart, Lung and Blood Institute Host Determinants of Organic Dust-induced Airway Disease David Schwartz <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	09/01/1998- 08/31/2001
<p><i>The goal of this research is to determine if airway response to inhaled endotoxin is genetically based and to assess the level of its expression by gender.</i></p>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
5 R01 AG16829-03 National Institute on Aging Work Accommodations for Older Workers with Disabilities Craig Zwerling <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	8.6%	\$285,441 09/15/1999-07/31/2003
<p><i>The specific aims of this project are to describe and compare the prevalence of workplace accommodations and the factors that influenced the likelihood of accommodation among older workers and to assess changes in the rate and nature of workplace accommodations during the first decade of the ADA.</i></p>		
Bristol-Myers Squibb Pharmaceutical Res. Institute Data Analysis William R. Clarke <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	02/02/2002-04/30/2002
.		
R49-CCR721682-01 CDC Iowa Injury Prevention Center Craig Zwerling <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	15%	\$668,970 09/01/2002-01/31/2006
1 R01 OH007945-01A1 NIOSH Prospective Study of UEMSD (Upper Extremity Musculoskeletal Disorders) and Physical Job Stressors (Ergonomist Fredric E. Gerr <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	09/01/2003-08/31/2007
<p><i>This is a prospective epidemiologic study of manufacturing workers to address the incidence of EIMSDs and physical job stressors.</i></p>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
IIR-03-207-1 VA HSR&D Estimating the Magnitude of Unmeasured Risk in VA Patients Mary Vaughn Sarrazin <i>Principal</i> Michael P. Jones <i>Co-Investigator</i> <i>This two-year study will identify whether VA utilization is an independent risk factor for poor outcomes. Specifically, the study will: 1) compare outcomes of VA users and other patients who receive care in private sector hospitals for 10 high-volume medical and surgical diagnoses, adjusting for severity of illness; and 2) identify characteristics of VA users that are associated with poor outcomes and estimate the prognostic impact of these characteristics. The study will use Medicare administrative data, VA administrative data, and other existing data</i>	5%	06/01/2004- 05/31/2006
HFP 04-149 VA HSR&D Center for Research in the Implementation of Innovative Strategies in Practice (CRIISP) Rosenthal <i>Principal</i> Fredric Wolinsky <i>Principal</i> Michael P. Jones <i>This award will enhance the infrastructure for health service research at the Iowa City VA Medical Center in the area of implementing evidence into practice.</i>	20%	\$3,400,000 07/01/2004- 10/01/2009

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
R01 ES013067-01 ^{a2} NIH Neurological Outcomes Among Pesticide Applicators Fredric E. Gerr <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	4%	\$403,151 09/09/2005- 08/31/2009
<p><i>The purpose of this project is to examine associations between cumulative lifetime exposure to the sum of all OP and carbamate pesticides and performance on selected measures of peripheral and central neurological function while controlling for effects of known covariates.</i></p>		
R03 AG027286-01 NIH The Significance of Racial Segregation for Cardiovascular Disease Mary Vaughn Sarrazin <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	5%	\$50,000 03/01/2006- 02/28/2008
<p><i>This two-year study will use Medicare data to examine the relationship between segregation of hospital services and disparities in processes and outcomes of care in Black and White patients treated for acute myocardial infarction.</i></p>		
P42 ES 013661 NIEHS Iowa Superfund Research Program: Semi- Volatile PCBs: Sources, Exposures, Toxicities Larry W. Robertson <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	18%	\$2,077,047 05/12/2006- 03/31/2020
<p><i>The overall theme of this project is the consequences of atmospheric sources and exposures to semi-volatile Polychlorinated Biphenyls (PCBs), and it deals with volatilization, transport and exposure of lower halogenated atmospheric sources, and the consequences of exposure to them</i></p>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
R03 AG0226621-1 NIH-NIA Impact of Certificate of Need on the Use of Revascularization for AMI Mary Vaughn Sarrazin <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	5%	\$45,000 06/01/2006- 05/31/2007
IIR 06-082 VA HSR&D (part of CRIISP) Comorbid Illness Management Program for Depression in Heart Failure Carolyn Turvey <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$823,381 03/01/2007- 02/28/2010
<i>The purpose of this study is to compare the effectiveness of a comorbid illness management program to a single illness management program in heart failure patients.</i>		
1R21 AG030333-02 NIH Continuity of Care and Health Outcomes: Does it Really Matter Fredric Wolinsky <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$100,450 03/01/2007- 02/28/2010
<i>This is an evaluation of the effect of a newly developed measure of continuity of care based in Part B claims data on subsequent health outcomes among Medicare beneficiaries.</i>		
NRI05-218 VA HSR&D (part of CRIISP) Effects of Patients' Models of Heart Disease on Preventive Behaviors Rene Martin <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	5%	\$574,000 04/01/2007- 03/31/2011
<i>This study will investigate the associations among lay beliefs about coronary heart disease, modifiable risk behaviors and quality of life in a diverse sample of veterans recovering from myocardial infarction.</i>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
R34-MH073566-03 NIH Interpersonal Psychotherapy for Depression in Heart Failure Carolyn Turvey <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	15%	\$131,085 07/01/2007- 02/28/2011
<i>This project's goal is to assess depression in heart failure patients using psychotherapy</i>		
R01 HL085347-01A1 NIH Cardiac Care in Specialty and General Hospitals Peter Cram <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	5%	\$414,206 07/01/2007- 11/30/2009
<i>This study will investigate whether mortality and complication rates will be lower in specialty hospitals than in general hospitals in the same health care market, adjusted for socio-demographic factors, comorbidity and acuity. Also, the possible effects that hospital volume and severity of illness have on this difference between hospital types will be studied.</i>		
1 R21 AG031307-01 NIH ED Use Patterns, Antecedents, and Consequences in Older Adults Fredric Wolinsky <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$123,000 02/15/2008- 07/31/2010
<i>The purpose of this study is to develop one or more typologies that reflect an older adult's pattern of Emergency Department use over time among Medicare beneficiaries and to examine the antecedents and consequences of these ED use patterns.</i>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
IIR 07-145 VA HSR&D (part of CADRE) Trial of Low and High Intensity Strategies to Maintain BP Control Gary Rosenthal <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$884,100 07/01/2009- 12/31/2013
<p><i>This study will provide important insights on the long-term control of blood pressure (BP) in patients with hypertension (HTN). Specifically, the study will determine whether patients with uncontrolled HTN require long-term continued intensive intervention or of such patients can be provided with a less intense intervention and returned to primary care after the initial control of BP.</i></p>		
1 R 21 AT004578-01A2 NIH Patterns of Chiropractic Use and their Antecedents and Consequences in Older Adults Fredric Wolinsky <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$150,000 07/01/2009- 06/30/2011
<p><i>This is a secondary analysis of the Survey of Assets and Health Dynamics Among the Oldest Old (AHEAD) to determine whether continuity of care with a physician has beneficial effects on health status trajectories, the risk of being hospitalized for ambulatory care sensitive conditions and mortality.</i></p>		
1 RC1 DE020303-01 NIH ARRA: First Preventive Dental Visit: Disparities in Needs, Costs + Behavioral Insights Peter Damiano <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$305,252 09/25/2009- 08/31/2012

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
1 RC1 AG035546-01 NIH ARRA: RCT of Two Speed of Processing Modes to Prevent Cognitive Decline in Older Adults Fredric Wolinsky <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$333,052 09/30/2009- 09/29/2011
<p><i>This project builds on previous research showing that age-related cognitive decline is amenable to intervention. Through randomized controlled trials we hope to show that a value-added version of ACTIVE that can be used on home computers is at least as efficacious as the original implementation at reducing or preventing age-related cognitive decline.</i></p>		
1 RC1 NS068092-01 NIH ARRA: Predictors of Long-Term Outcome of Unruptured Intracranial Aneurysms James C. Torner <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$363,413 09/30/2009- 08/31/2011
REA 09-220 VA HSR&D –(REAP) “Comprehensive Access & Delivery Research and Evaluation (CADRE, formerly CRIISP)” Gary Rosenthal <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	20%	\$2,730,000 10/01/2009- 09/03/2012
<p><i>The Comprehensive Access and Delivery Research and Evaluation Center (CADRE) at the Iowa City Veterans Affairs Medical Center is a Research Enhancement Award Program (REAP) funded to enhance the infrastructure for health services research. The broad goals of CADRE are to identify barriers to the delivery of evidence-based practice and to develop and test innovative solutions to overcoming barriers and implement evidence-based practices.</i></p>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
5 R01 AG33035 NIH A Patient Activation Intervention to Improve Bone Health Cram <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	10%	\$867,217 11/11/2011- 03/31/2015
No Contract Number PCORI Methodologies to Adjust for Respondent Status Effects on Health Outcomes Fredric Wolinsky Michael P. Jones <i>Co-Principal</i>	3.6 months 30%	\$464,095 10/15/2012- 12/31/2014
<i>The goal of this study is to develop new methods for identifying and adjusting for respondent status bias in health survey interviews.</i>		
5 R01 NR013908 NIH Improving Mood in Assisted Living Using a Cognitive Training Intervention Marianne Smith Michael P. Jones <i>Co-Investigator</i>	1.2 months 10%	\$385,340 11/13/2012- 06/30/2018
CIN 13-412 VA HSR&D Center of Innovation (COIN) Eli Perencevich <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	22%	\$660,000 09/01/2013- 09/30/2018
<i>The Comprehensive Access & Delivery Research and Evaluation Center (CADRE) at the Iowa City Veterans Affairs Medical Center is funded by HSR&D COIN to develop, implement, and test innovative strategies that expand access to high-quality primary and specialty care, while ensuring that the care delivered is safe and free of preventable infections.</i>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
1 R01 HS023104 AHRQ Stroke Prevention for Atrial Fibrillation with Multiple Chronic Conditions Mary Vaughn Sarrazin <i>Principal</i> Michael P. Jones <i>Co-Investigator</i>	0.72 months 6%	\$246,686 09/01/2014- 02/29/2016
P30 ES005605 NIEHS/NIH EHSRC Pilot Grant: Statistical Methods for Left- Centered Toxicology Data Michael P. Jones <i>Director</i>	3%	\$30,023 09/01/2017- 08/31/2018

Environmental exposure studies typically depend on laboratory assays that have thresholds below which environmental pollutants cannot be measured with accuracy. Exposure levels below this limit of quantification may well be toxic or bioaccumulate to toxic levels. In order to obtain accurate and meaningful results, it is therefore vital to use data analytic methods that handle such left-censored data with as little estimation bias as possible. Historically, environmental toxicologists have estimated basic summary statistics of exposure, such as the median and geometric mean. Today, more complex questions arise in toxicology and environmental epidemiology which require development of more sophisticated methods of data analysis. The aims of this proposal are (i) to develop new statistical methods for the estimation of the means and covariance matrix of left-censored contaminant levels under settings in which exposure may depend on subject-specific characteristics, (ii) to develop regression methods in which both the outcome variable and covariates may be subject to left censoring, and (iii) to illustrate these methods using data from an on-going community based study of exposure and body burden of polychlorinated biphenyls (PCBs).

2. Grants Pending

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
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D. Presentations

1. Invited Presentations

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
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2. Conference Presentations/Posters

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
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1986	A General Class of Nonparametric Procedures for Survival Analysis (Jones MP)	Department of Biostatistics, University of Washington, Seattle, Washington	Oral
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1986	A General Class of Nonparametric Procedures for Survival Analysis (Jones MP)	Thirteenth International Biometric Conference, Seattle, Washington	Oral
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1988	A General Class of Nonparametric Survival Analysis Procedures for the Markov Model (Jones MP)	Biometrics ENAR Meeting	Oral
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1989	Analysis of Brain Cancer Survival Data (Jones MP)	Department of Mathematics and Computer Science at Drake University, Des Moines, Iowa	Oral
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1990	A Family of Robust Tests for Survival Data (Jones MP)	Department of Biostatistics, University of Minnesota, Minneapolis, Minnesota	Oral
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1990	Robust Tests for Survival Data Involving a Single Continuous Covariate (Jones MP)	Biometrics ENAR Meeting, Baltimore, Maryland	Oral
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1991	Nonparametric Estimates of Slope for Right Censored Data (Jones MP)	Nato Advanced Research Workshop in Survival Analysis and Related Topics, Ohio State University	Oral
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1991	Robust Tests for Survival Data Involving a Single Continuous Covariate (Jones MP)	Department of Statistics, Penn State University, University Park, Pennsylvania	Oral
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<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1992	Robust Tests for Survival Data Involving a Single Continuous Covariate (Jones MP)	Department of Statistics, Iowa State University, Ames, Iowa	Oral
1992	The Effect of Miscoding a Time-Dependent Covariate as a Fixed Xovariate in Cox Regression	Biometrics ENAR Meeting, Cincinnati, Ohio	Oral
1993	Indicator and Stratification Methods for Missing Covariates in Multiple Linear Regression	Biometrics (ENAR) Meeting, Philadelphia, Pennsylvania	Oral
1994	A Frailty Model for Clustered Failure Time Data with Patterned Dependence Structure (Jones MP)	Department of Statistics, University of Iowa	Oral
1994	A Frailty Model for Clustered Failure Time Data with Patterned Dependence Structure (Jones MP)	International Biometrics Conference, Hamilton, Canada	Oral
1994	Robustification of Cox Proportional Hazards Regression (Bounded Influence) (Jones MP)	Biometrics (ENAR) Meeting, Cleveland, Ohio	Oral
1995	A Frailty Model for Clustered Failure Time Data with Patterned Dependence Structure (Jones MP)	Department of Statistics, Oxford University, England	Oral
1996	Unmasking the Trend Sought by Jonckheere-type Tests for Right-censored Data (Jones MP)	International Biometrics Conference, Amsterdam, Netherlands	Oral
1997	Unmasking the Trend Sought by Jonckheere-type Tests for Right-censored Data (Jones MP)	Biometrics (ENAR) Conference, Memphis, Tennessee	Oral
1999	Investigation of Semiparametric Regression Methods for Censored Data Under Model Misspecification (Jones MP)	Forum for Interdisciplinary Mathematics on Statistics, Combinatorics and Related Areas, Mobile, Alabama	Oral

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1999	Rank-based Estimators for the Accelerated Failure Time Regression Model (Jones MP)	Dept. of Statistics, University of Missouri, Columbia, Missouri	Oral
2000	Investigation of Semiparametric Regression Methods for Censored Data Under Model Misspecification (Jones MP)	Biometrics (ENAR) Society meetings, Chicago, Illinois	Oral
2001	Buckley-James Type Rank Tests for Paired Survival Data (Jones MP)	Biometrics (ENAR) Society Meeting, Charlotte, North Carolina	Oral
2005	A Comparison of Dental Costs for Medicaid and S-SCHIP Programs (Flach SD, Damiano PC, Momany ET, Jones MP, Carter K)	Academy Health Annual Meeting, Boston, Massachusetts	Poster
2005	Estimation in the Mixed Effects Cox Regression Model (Yoo B, Jones MP)	Midwest Biopharmaceutical Statistical Workshop, Muncie, Indiana	Poster
2005	Time to First Dental Visit for Children in a Medicaid and S-SCHIP Program (Damiano PC, Momany ET, Flach SD, Jones MP, Carter K)	Child Health Services Research Annual Meeting, Boston, Massachusetts	Poster
2007	Modeling Bivariate Survival Times (Copula F, Qin R, Jones MP)	2007 Joint Statistical Meetings, Salt Lake City, Utah	Poster
May 21, 2010	Estimation of Group-Specific Survival Functions from Case-Cohort Data (Jones MP)	Frontiers in Applied and Computational Mathematics Conference, New Jersey Institute of Technology	Oral
April 6, 2011	Nonparametric Estimation of Group-Specific Functions from Case-Cohort Data (Jones MP)	Memorial Sloan-Kettering Cancer Center, New York City	Oral
November 4, 2016	Linear Regression of Left-Censored Data with Applications to Toxicology (Jones MP)	Department of Biostatistics, Indiana University, Indianapolis, Indiana, United States	Oral

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
March 29, 2017	Causal Mediation Analysis (Jones MP)	CADRE Research Group, Veterans Administration Medical Center, Iowa City, Iowa City, Iowa, United States	Oral

3. Other Presentations

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
June 24, 1979	Investigation of Short-term Health Effects of Ambient Photochemical Air Pollution (Avol EL, Jones MP, Wightman LH, Bachmayer EA, Spier CE, Linn WS, Hackney JD)	72nd Annual APCA Meeting, Cincinnati, Ohio	Paper
October 1979	Short-term Respiratory Effects of Sulfur Containing Pollutant Mixtures: Some Recent Findings from Controlled Clinical Studies (Hackney JD, Linn WS, Jones MP, Lleiman MT, Bailey RM, Julin DR)	Second Annual Oakridge National Laboratory Life Sciences Symposium, Gatlinburg, Tennessee	Paper
1986	Life Table Analysis	University of Iowa	Grand Rounds
1986	A General Class of Nonparametric Procedures for Survival Analysis		National Education-Related Presentation
July 27, 1986	A General Class of Nonparametric Procedures for Survival Analysis (Jones M)	13th International Biometric Conference, Seattle, Washington	Paper
1987	Adjusting Group Differences for Covariables	University of Iowa	Seminar
1987	Nonparametric Tests for Trend in a 2 x k Table	University of Iowa	Seminar
August 1987	Nonparametric Tests for Trend in a 2 x k Table	American Statistical Association Meeting	
August 17, 1987	Nonparametric Tests for Trend in a 2 x k Table (Jones M)	American Statistical Association Conference, San Francisco, California	Paper
1988	Life Table Analysis	University of Iowa	Grand Rounds

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1988	A General Class of Nonparametric Survival Analysis Procedures for the Markov Model	University of Iowa	Seminar
1988	Randomized Clinical Trials. A Speaker and Discussant	University of Iowa	Seminar
1988	Regression of the Log Odds Ratio	University of Iowa	Seminar
April 22, 1988	Cigarette Smoking as a Risk Gactor for Neurologic Cerebral Infarction in Young Adults (Beattie BA, Biller J, Bruno A, Adams Jr HP, Jones MP)	World Federation of Neurology Research Group on Epidemiology, Cincinnati, Ohio	Paper
1989	Life Table Analysis	University of Iowa	Grand Rounds
1989	How Outliers in Data Can Affect Your Results	University of Iowa	Seminar
1989	Sample Size Needed in a Clinical Trial	University of Iowa	Seminar
March 1, 1989	A General Class of Nonparametric Tests for Survival Analysis (Jones MP)	Conference on Robustness and Nonparametric Statistics, Part I XXXIII, Stefan Banach International Mathematical Center, Warsaw, Poland	Paper
1990	Robust Tests for Survival Data Involving a Single Continuous Covariate	University of Iowa	Seminar
February 16, 1990	Spontaneous Improvement After Acute Ischemic Stroke. A Pilot Study (Biller J, Love BB, March III EE, Knepper L, Jones MP, Adams Jr HP, Gordon DL)	Joint Conference on Stroke and Cerebral Circulation, Orlando, Florida	Paper
1991	Nonparametric Estimates of Slope for Right Censored Data	Biometrics ENAR Meeting, Houston, Texas	

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1991	Hypocholesterolemia is Not an Important Marker for Spontaneous Intracerebral Hemorrhage (Gordon DL, Biller J, Jones MP, Marsh III EE, Loftus CM, Love BB, Adams Jr HP)	AAN Scientific Program	Paper
1992	Competing Risks in Survival Data Analysis	University of Iowa	Seminar
1993	Robustification of Cox Proportional Hazards Regression	University of Iowa	Seminar
1993	S-plus	University of Iowa	Seminar
December 3, 1993	Randomized Evaluation of the Optimal Platelet Count for Prophylactic Platelet Transfusions in Patients Undergoing Induction Therapy for Acute Leukemia (Heckman K, Weiner GJ, Strauss RG, Jones MP, Burns CP)	The American Society of Hematology 35th Annual Meeting, St. Louis, Missouri	Paper
1994	Generalized Estimating Equations for Correlated Data	University of Iowa	Seminar
1994	Indicator and Stratification Methods for Missing Explanatory Variables in Regression	University of Iowa	Seminar
March 12, 1994	Is Microstaging of Early Invasive (T1) Cancer of the Urinary Bladder Possible or Useful? (Platz CE, Cohen MB, Jones MP, Olson DB, Lynch CF)	Annual Meeting of the United States and Canadian Academy of Pathology, San Francisco, California	Paper
1996	A Frailty Model for Clustered Failure Time Data with Patterned Dependence Structure (Jones MP)	Symposium on Frailty Models and Their Use in Epidemiology, Department of Biostatistics, University of Copenhagen and Danish Epidemiology Science Centre	

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1996	A Weighted Proportional Hazards Regression Which is Resistant to Outliers	University of Iowa	Seminar
1996	Markov Chain Monte Carlo Seminar: Bayesian Computation and Stochastic Systems	University of Oxford	Seminar
1996	Markov Chain Monte Carlo Seminar: Generalized Linear Mixed Models	University of Oxford	Seminar
1997	Study designs and analysis	Evaluation Workshop, Data Analysis and Evaluation Assistance for NHTSA Regions VII and VIII, Des Moines, Iowa	Continuing Education Talks
1997	The Cup is Half Full: An Outcome Analysis of Feeding Enterostomies in the Nineties (Ephgrave KS, Buchmiller C, Jones M, Cullen JJ)	Association of VA Surgeons 21st Scientific Symposium	Paper
1998	An Introduction to the Graphical and Statistical Methods of Splus	University of Iowa	Seminar
February 12, 1998	Outcomes Following Feeding Enterostomies: What Factors Cause Morbidity? (Ephgrave K, Jones M, Cullen J, Buchmiller C)	The Society of University Surgeons, Milwaukee, Wisconsin	Paper
2000	Investigation of Semiparametric Regression Methods for Censored Data Under Model Misspecification (Jones MP)	"Three Country Corner" Royal Statistical Society Local Group, Limburgs Universitair Centrum, Diepenbeek, Belgium	
2000	Investigation of Semiparametric Regression Methods for Censored Data Under Model Misspecification	University of Iowa	Seminar
2001	Graduate Panel for New International Graduate Students	University of Iowa	Seminar

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2003	Hierarchical Modeling of Public Health Data	University of Iowa	Seminar
2004	Hierarchical Modeling of Health Services Research Data	University of Iowa	Seminar
2007	Survival Data Analysis: Basic Ideas and Methods	College of Nursing, University of Iowa, Iowa City, Iowa	Seminar
2010	Chronic Health Conditions and Pediatric Dental Utilization Under General Anesthesia (Chi D, Momany ET, Neff J, Jones M, Warren J, Slayton R, Weber-Gasparoni K, Damiano P)	American Academy of Dental Research Conference, Washington, District of Columbia	Paper
November 6, 2010	Functionality of Smoke Alarms Located Nearest the Kitchen and the Role of Nuisance Alarms (Yang G, Jones M, Cheng G, Ramirez M, Taylor C, Peek-Asa C)	APHA Annual Meeting	Paper

IV. SERVICE

A. Offices/appointments held in professional organizations

1. Editorships

<u>Year</u>	<u>Organization</u>	<u>Position</u>
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2. Review Panels

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1990	Generalized Additive Models, American Statistical Association Conference	Member
1990	Iowa Review Committee of American Cancer Society Seed Grant Applications	Reviewer
1992	Iowa Review Committee of American Cancer Society Seed Grant Applications	Reviewer

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2007	External Review Panel for Department of Statistics, Oklahoma State University	Reviewer
2016	National Institute of Environmental Health Sciences(NIEHS)	Reviewer of the Biostatistics and Computational Biology Branch

3. Professional Organizations (state and/or national)

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1974-Present	Biometric Society	Member
1979-Present	American Statistical Association	Member
1993-1995	Iowa Chapter, American Statistical Association	Secretary/Treasurer
1994-1996	Biometric Society	Liaison to AAAS
1997-Present	Royal Statistical Society	Fellow

B. Other Professional Service

1. Referee Manuscripts/Journal Reviews

<u>Year</u>	<u>Organization</u>	<u>Position</u>
	American Journal of Epidemiology	Reviewer
	Annals of Statistics	Reviewer
	Biometrics	Reviewer
	Biometrika	Reviewer
	Biostatistics	Reviewer
	Circulation	Reviewer
	Circulation: Arrhythmia and Electrophysiology	Reviewer
	Communications in Statistics	Reviewer
	Computational Statistics and Data Analysis	Reviewer

<u>Year</u>	<u>Organization</u>	<u>Position</u>
	Journal of the American Statistical Association	Reviewer
	Journal of the Royal Statistical Society - Series B	Reviewer
	Lifetime Data Analysis	Reviewer
	New England Journal of Medicine	Reviewer
	Sage	Reviewer
	Scandinavian Journal of Statistics	Reviewer
	Statistics in Medicine	Reviewer
2018	American Statistician	Reviewer

2. Organize Conference, Paper Session, etc.

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1989	Survival Analysis Session, ASA Meeting	Chair
1990	Stochastic Processes Session, ASA Meeting	Chair
1990	Nonparametric Survival Analysis, Biometrics ENAR Meeting	Organizer and Chair
1991	Statistical Methods for General Survival Data, Biometrics ENAR Meeting	Chair of Invited Paper Session
1992	Survival Analysis Session, Biometrics ENAR Meeting	Chair
2015	Genetic Epidemiology Session, Joint Statistical Meetings	Chair

3. State Committees

<u>Year</u>	<u>Organization</u>	<u>Position</u>
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4. National Committees

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2015-2017	COPSS Presidents Award Committee	Member

5. Professionally Relevant Community Involvement

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2000	Regina High School Science Club	Lecture on Experimental Design and Advice on NASA Shuttle Shielding Experiment

6. Professional Consulting

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1980	Environmental Health Service, Downey, CA	Computer Consultant
1982	University of Washington, Department of Biostatistics	Statistical Consultant
1985	University of Washington, Department of Otolaryngology	Statistical Consultant

7. Other

<u>Year</u>	<u>Organization</u>	<u>Position</u>
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C. Departmental, Collegiate or University Service

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1986-1990	University of Iowa, Department of Preventive Medicine Curriculum Committee	Member
1986-1987	University of Iowa, Division of Biostatistics M.S. Curriculum Committee	Chair
1986-1987	Department of Preventive Medicine and Environmental Health, College of Medicine, University of Iowa, Resource Committee	Member

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1988-1989	University of Iowa, Biostatistics Divisional Seminar Committee	Chair
1990-1997	University of Iowa, Department of Preventive Medicine M.S. Final Exam Committee	Member
1991-1995	College of Medicine, University of Iowa, Advisory Committee to the Office of Consultation and Research in Medical Education	Member
1993-1995	University of Iowa, Computer Resource Committee	Member
1993-1995	University of Iowa, Computer Resource Committee, Health Sciences Computing Lab Subcommittee	Chair
1993-1994	University of Iowa, Unix Users Group with Biweekly Meetings	Member
1993	Department of Preventive Medicine and Environmental Health, College of Medicine, University of Iowa, Space Committee	Member
1996-2004	Department of Preventive Medicine and Environmental Health, College of Medicine, University of Iowa, Computation and Informatics Committee	Member
1996-2001	Department of Epidemiology, College of Public Health, University of Iowa, Iowa Cancer Registry Steering Committee	Member
1997-1999	Department of Preventive Medicine and Environmental Health, College of Medicine, University of Iowa, Division of Biostatistics Internet Webpage Review Committee	Chair
1997-1998	University of Iowa, Biostatistics Curriculum Review Committee	Chair

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1997	University of Iowa, Biostatistics Strategic Plan Committee	Member
1999-2000	University of Iowa, Milford E. Barnes Student Award Committee for Biostatistics	Member
1999	University of Iowa, Biostatistics Ph.D. Comprehensive Exam Committee	Member
2000-2006	Vice President for Research Advisory Committee in the Physical and Mathematical Sciences Review of Internal Funding Programs	Member
2001-2004	University of Iowa, Department of Biostatistics Ph.D. Comprehensive Exam	Member
2001	University of Iowa, Department of Biostatistics Ph.D. Comprehensive Exam Revision Committee	Member
2002-2004	College of Public Health, University of Iowa, Electronic Communications Committee	Member
2003-2009	University of Iowa, Graduate College Council	Member
2003-2009	University of Iowa, Graduate College Faculty Council	Member
2003	College of Public Health, University of Iowa, Internal Review Committee for the Department of Occupational and Environmental Health	Member
2003	Taskforce to Create the Faculty Council for the College of Public Health	Member
2004-Present	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Alumni Award Nomination Committee	Member

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2004-2006	University of Iowa, Biostatistics Curriculum Committee	Member
2004-2006	Department of Biostatistics, College of Public Health, University of Iowa, Committee to Draft P&T Guidelines for Biostatistics	Member
2004-2005	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Alumni Award Nomination Committee	Chair
2004	Department of Biostatistics, College of Public Health, University of Iowa, M.S. Examination Committee	Member
2006-Present	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Departmental Consulting Group (DCG) for Faculty Tenure	Member
2006-Present	CPH Curriculum Committee	Faculty Representative
2006-2017	University of Iowa, Department of Biostatistics Ph.D. Comprehensive Exam	Member
2006-2007	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Departmental Consulting Group (DCG) for Faculty Tenure	Chair
2006-2007	University of Iowa, Biostatistics M.S. Exam Committee	Member
2006-2007	Department of Biostatistics, College of Public Health, University of Iowa, M.S. and Ph.D. Curriculum Committee	Member
2007-2008	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Departmental Self-Study Committee	Co-Chair

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2007-2008	College of Public Health, University of Iowa, Collegiate Consulting Group for Promotion and Tenure	Member
2008-2009	Department of Biostatistics, College of Public Health, University of Iowa, Committee to Develop Departmental Mentoring System for Junior Faculty	Member
2009-2010	Department of Health Management and Policy, College of Public Health, University of Iowa, Search Committee for DEO	Member
2012-2015	College of Public Health, University of Iowa, Faculty Council	Member
2016-Present	Ph.D. Comprehensive Exam Steering Committee (Summer)	Member
2016-Present	Ph.D. Curriculum Review Committee	Member
2016-2018	CPH Statistical Methods Course Task Force	Member
2016-2017	Biostatistics Curriculum Committee	Member
2016-2017	CPH Internal Review Committee for Department of Epidemiology	Member
2016-2017	Peer Review Committee for Tenure and Promotion to Associate Professor	Chair
2016-2017	Two Peer Review Committees for Promotion to Full Professor	Member
2017-2018	Biostatistics Curriculum Committee	Chair
2017-2018	Peer Review Committees for Promotion to Full Professor	Chair
2017	Five-Year Post-Tenure Review Committee	Member

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2018	Five-Year Post-Tenure Evaluation Committee - Epidemiology Department	Member
2018	Five-Year Post-Tenure Evaluation Committee	Member
2018	Pilot Grant Proposal to EHSRC	Reviewer