

## COLLEGE OF PUBLIC HEALTH CURRICULUM VITAE

Jeffrey D. Dawson

July 27, 2021

### I. EDUCATION AND PROFESSIONAL HISTORY

#### A. Education

<u>Institution</u>	<u>Field of Study</u>	<u>Degree Obtained</u>	<u>Degree Date</u>
Brigham Young University, Provo, Utah	Statistics	BS	1987
Harvard School of Public Health, Boston, Massachusetts	Biostatistics	ScD	1991

#### B. Professional and Academic Positions

<u>Position Title</u>	<u>Dates of Service</u>	<u>Location/Institution</u>
Teaching Assistant	1987-1991	Harvard University, Boston
Summer Trainee	1988	Dana-Farber Cancer Institute, Boston
Research Assistant	1989-1990	Harvard University, Boston
Assistant Professor	1991-1997	Department of Preventive Medicine and Environmental Health (Division of Biostatistics), Carver College of Medicine, The University of Iowa, Iowa City
Associate Professor	1997-1999	Department of Preventive Medicine and Environmental Health (Division of Biostatistics), Carver College of Medicine, The University of Iowa, Iowa City
Associate Professor	1999-2009	Department of Biostatistics, College of Public Health, The University of Iowa, Iowa City
Visiting Professor	2000-2001	Brigham Young University, Provo
Director of Graduate Studies	2003-2012	Department of Biostatistics, College of Public Health, The University of Iowa, Iowa City

<u>Position Title</u>	<u>Dates of Service</u>	<u>Location/Institution</u>
Professor	2009-Present	Department of Biostatistics, College of Public Health, The University of Iowa, Iowa City
Associate Dean for Faculty Affairs	2011-Present	College of Public Health, The University of Iowa, Iowa City

**C. Honors, Awards, Recognitions, and Outstanding Achievements**

<u>Year</u>	<u>Title</u>
1987	Elected Member, Phi Kappa Phi Honor Society
1992	National Science Foundation travel award
1994	Elected University of Iowa Faculty Senate Member
1997	Co-author of Best Research Paper (Honorable Mention), selected by the Society of Teachers of Family Medicine
1997	Co-author of Best Research Paper at Society of Gynecological Oncology Annual Meeting
1997	Co-author of paper receiving Award for Clinical Biomechanics Research, the American Society of Biomechanics
1999	Appointed as Faculty Mentor for Medical Science Training Program
2004	College of Public Health Faculty Service Award, College of Public Health, The University of Iowa
2008	Elected Chair of College of Public Health Faculty Council
2013-2015	ASA Council of Chapters Governing Board (District 4 Vice Chair)
2013-2014	Academic Leadership Program Fellow, Committee on Institutional Cooperation
2013	Inducted into Delta Omega Honorary Society in Public Health
2016	Inducted as Fellow of the American Statistical Association, American Statistical Association
2021-2023	Chair Elect of ASA Council of Chapters Governing Board

## 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>
Fall 1991	63:161 Introduction to Biostatistics	3	44	Primary Instructor	100%
Spring 1992	63:161 Introduction to Biostatistics	3	35	Primary Instructor	100%
Fall 1992	63:176 Biostatistical Methods I	4	5	Primary Instructor	100%
Spring 1993	63:203 Preceptorship in PM & EH	3	1	Primary Instructor	100%
Spring 1993	63:276 Biostatistical Methods II	4	7	Primary Instructor	100%
Summer 1993	50:211 MSTP Summer Research	1	1	Primary Instructor	100%
Spring 1994	63:162 Design & Analysis of Experiments in the Biological Sciences	3	32	Primary Instructor	100%
Spring 1994	63:203 Preceptorship in PME H	3	2	Primary Instructor	100%
Spring 1994	63:276 Biostatistical Methods II	4	4	Primary Instructor	100%
Spring 1994	63:300 Thesis	5	1	Primary Instructor	100%
Fall 1994	63:176 Biostatistical Methods I	4	8	Primary Instructor	100%
Spring 1995	63:203 Preceptorship in PME H	3	6	Primary Instructor	100%
Spring 1995	63:300 Thesis	4	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 1995	63:201 Research in PMEH	1	2	Primary Instructor	100%
Fall 1995	63:261 Survival Analysis	3	11	Primary Instructor	100%
Spring 1996	63:162 Des and Analysis of Exp in the Bio Sciences	3	28	Primary Instructor	100%
Spring 1996	63:203 Preceptorship in PMEH	3	1	Primary Instructor	100%
Fall 1996	63:172 Independent Study and Research	1	1	Primary Instructor	100%
Fall 1996	63:176 Biostatistical Methods I	4	16	Primary Instructor	100%
Fall 1996	63:300 Thesis	2	2	Primary Instructor	100%
Spring 1997	63:276 Biostatistical Methods II	4	8	Primary Instructor	100%
Fall 1997	63:261 Survival Analysis	3	5	Primary Instructor	100%
Fall 1997	63:300 Thesis	9	3	Primary Instructor	100%
Spring 1998	63:162 Des and Analysis of Exp in the Bio Sciences	3	33	Primary Instructor	100%
Spring 1998	63:203 Preceptorship in PMEH	3	3	Primary Instructor	100%
Spring 1998	63:300 Thesis	6	1	Primary Instructor	100%
Fall 1998	63:176 Biostatistical Methods I	4	11	Primary Instructor	100%
Spring 1999	63:203 Preceptorship in PMEH	3	2	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>
Spring 1999	63:276 Biostatistical Methods II	4	9	Primary Instructor	100%
Fall 1999	63:261 Survival Analysis	3	13	Primary Instructor	100%
Spring 2000	171:281 Independent Study	1	1	Primary Instructor	100%
Spring 2000	63:162 Des and Analysis of Exp in the Bio Sciences	3	28	Primary Instructor	100%
Fall 2000	63:203 Preceptorship in PMEH	3	1	Primary Instructor	100%
Fall 2001	171:201 Biostatistical Methods I	4	13	Primary Instructor	100%
Spring 2002	171:162 Design and Analysis of Biomedical Studies	3	39	Primary Instructor	100%
Spring 2002	171:280 Preceptorship in Biostatistics	3	2	Primary Instructor	100%
Fall 2002	171:201 Biostatistical Methods I	4	16	Primary Instructor	100%
Spring 2003	171:202 Biostatistics Methods II	4	15	Primary Instructor	100%
Spring 2003	171:280 Preceptorship in Biostatistics	3	4	Primary Instructor	100%
Summer 2003	171:161 Introduction to Biostatistics	3	26	Primary Instructor	100%
Fall 2003	171:201 Biostatistical Methods I	4	18	Primary Instructor	100%
Spring 2004	171:280 Preceptorship in Biostatistics	3	2	Primary Instructor	100%
Spring 2004	171:290 Advanced Biostatistics	1	4	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>
Summer 2004	171:161 Introduction to Biostatistics	3	21	Primary Instructor	100%
Fall 2004	171:201 Biostatistical Methods I	4	15	Team Teacher	25%
Spring 2005	171:202 Biostatistical Methods I	4	20	Primary Instructor	100%
Spring 2005	171:280 Preceptorship in Biostatistics	3	1	Primary Instructor	100%
Summer 2005	171:161 Introduction to Biostatistics	3	21	Primary Instructor	100%
Spring 2006	171:280 Preceptorship in Biostatistics	3	2	Primary Instructor	100%
Fall 2006	171:201 Biostatistical Methods I	4	15	Primary Instructor	100%
Spring 2007	171:280 Preceptorship in Biostatistics	3	1	Primary Instructor	100%
Fall 2007	171:201 Biostatistical Methods I	4	12	Primary Instructor	100%
Fall 2007	171:280 Preceptorship in Biostatistics	1	1	Primary Instructor	100%
Fall 2007	171:281 Independent Study in Biostatistics	1	1	Primary Instructor	100%
Spring 2008	171:281 Independent Study in Biostatistics	3	2	Primary Instructor	100%
Spring 2008	171:290 Advanced Biostatistics Seminar	1	5	Team Teacher	50%
Summer 2008	171:161 Introduction to Biostatistics	3	14	Primary Instructor	100%
Fall 2008	171:201 Biostatistical Methods I	4	12	Primary Instructor	100%
Fall 2008	171:280 Preceptorship in Biostatistics	3	2	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>
Spring 2009	171:290 Adv Biostat Seminar (Stat in Microbiology)	0	7	Team Teacher	50%
Spring 2009	171:295 Research in Biostatistics	1	1	Primary Instructor	100%
Fall 2009	171:201 Biostatistical Methods I	4	9	Primary Instructor	100%
Fall 2009	171:280 Preceptorship in Biostatistics	3	2	Primary Instructor	100%
Fall 2009	171:281 Independent Study in Biostatistics	1	1	Primary Instructor	100%
Spring 2010	171:281 Independent Study	3	1	Primary Instructor	100%
Spring 2010	171:290 Adv Biostat Seminar (Stat in Microbiology)	0	8	Team Teacher	50%
Fall 2010	171:161 Introduction to Biostatistics	3	86	Primary Instructor	100%
Fall 2010	171:290:002 Advanced Biostatistics Seminar	1	9	Team Teacher	
Fall 2010	171:300 Thesis/Dissertation	1	1	Primary Instructor	100%
Fall 2010	650:270 Principles of Scholarly Integrity	1	177	Team Teacher	2%
Spring 2011	171:290 Adv Biostat Seminar (Stat in Microbiology)	1	8	Team Teacher	25%
Summer 2011	171:161 Introduction to Biostatistics	3	38	Primary Instructor	100%
Fall 2011	171:280 Preceptorship in Biostatistics	3	3	Primary Instructor	100%
Fall 2011	171:300 Thesis/Dissertation	5	2	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 2011	650:270 Principles of Scholarly Integrity	1	77	Team Teacher	5%
Spring 2012	171:300 Thesis/Dissertation	2	2	Primary Instructor	100%
Summer 2012	171:161 Introduction to Biostatistics	3	18	Team Teacher	50%
Fall 2012	171:161:AAA Introduction to Biostatistics	3	94	Primary Instructor	100%
Fall 2012	171:161:EXW Introduction to Biostatistics	3	35	Team Teacher	50%
Fall 2012	171:300 Thesis/Dissertation	2	2	Primary Instructor	100%
Spring 2013	171:202 Biostatistical Methods II	4	14	Primary Instructor	100%
Spring 2013	171:300 Thesis/Dissertation	2	2	Primary Instructor	100%
Fall 2013	171:161 Introduction to Biostatistics	3	90	Primary Instructor	100%
Fall 2013	171:300 Thesis/Dissertation	2	1	Primary Instructor	100%
Spring 2014	171:285 Scholarly Integrity in Biostatistics	1	31	Primary Instructor	100%
Spring 2015	BIOS:5720:0AAA Biostatistical Methods II	4	7	Primary Instructor	100%
Spring 2015	BIOS:7270:0001 Scholarly Integrity in Biostatistics	1	6	Primary Instructor	100%
Spring 2016	BIOS:5120:0001 Design & Analysis of Biomedical Studies	3	33	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>
Spring 2016	BIOS:7270:0001 Scholarly Integrity in Biostatistics	1	13	Primary Instructor	100%
Spring 2016	BIOS:7604:0001 Schol Integrity Biostatistics Postdocs	0	3	Primary Instructor	100%
Spring 2016	BIOS:7900:0042 Thesis/Dissertation	9	1	Primary Instructor	100%
Fall 2016	BIOS:7900:2969 Thesis/Dissertation	9	1	Primary Instructor	100%
Spring 2017	BIOS:5120:0001 Regression & ANOVA in Health Sciences	3	39	Primary Instructor	100%
Spring 2017	BIOS:7270:0001 Scholarly Integrity in Biostatistics	1	15	Primary Instructor	100%
Spring 2017	BIOS:7604:0001 Schol Integrity Biostatistics Postdocs	1	1	Primary Instructor	100%
Spring 2017	BIOS:7900:5219 Thesis/Dissertation	1	1	Primary Instructor	100%
Fall 2017	BIOS:7500:6285 Preceptorship in Biostatistics	3	2	Primary Instructor	100%
Fall 2017	CPH:2600:0001 Introduction to Public Health Methods	3	38	Primary Instructor	50%
Spring 2018	BIOS:7270:0001 Scholarly Integrity in Biostatistics	1	14	Primary Instructor	100%
Fall 2018	CPH:2600:0002 Introduction to Public Health Methods	3	25	Primary Instructor	100%
Fall 2018	CPH:2600:0003 Introduction to Public Health Methods	3	25	Course Supervisor	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 2018	CPH:2600:0004 Introduction to Public Health Methods	3	21	Course Supervisor	100%
Fall 2018	CPH:2600:0AAA Introduction to Public Health Methods	3	70	Primary Instructor	50%
Spring 2019	ABRD:3352:0001 International Perspectives: Xicotepec	1	12	Primary Instructor	50%
Spring 2019	BIOS:7270:0001 Scholarly Integrity in Biostatistics	1	14	Primary Instructor	100%
Spring 2019	CPH:4755:0001 International Perspectives: Xicotepec	2	8	Primary Instructor	100%
Fall 2019	CPH:2600:0A01 Introduction to Public Health Methods	3	21	Primary Instructor	100%
Fall 2019	CPH:2600:0A02 Introduction to Public Health Methods	3	18	Course Supervisor	0%
Fall 2019	CPH:2600:0A03 Introduction to Public Health Methods	3	20	Course Supervisor	0%
Fall 2019	CPH:2600:0A04 Introduction to Public Health Methods	3	15	Course Supervisor	0%
Fall 2019	CPH:2600:0AAA Introduction to Public Health Methods		74	Primary Instructor	100%
Spring 2020	ABRD:3352:0001 International Perspectives: Xicotepec	1	10	Primary Instructor	100%
Spring 2020	BIOS:7270:0001 Scholarly Integrity in Biostatistics	1	11	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>
Spring 2020	BIOS:7900:7395 Thesis/Dissertation		1	Primary Instructor	100%
Spring 2020	CPH:4755:0001 International Perspectives: Xicotepec	2	10	Primary Instructor	100%
Fall 2020	CPH:2600:0A01 Introduction to Public Health Methods	3	25	Primary Instructor	100%
Fall 2020	CPH:2600:0A02 Introduction to Public Health Methods	3	17	Course Supervisor	0%
Fall 2020	CPH:2600:0A03 Introduction to Public Health Methods	3	22	Course Supervisor	0%
Fall 2020	CPH:2600:0A04 Introduction to Public Health Methods	3	18	Course Supervisor	0%
Fall 2020	CPH:2600:0AAA Introduction to Public Health Methods		82	Primary Instructor	100%
Spring 2021	BIOS:7270:0001 Scholarly Integrity in Biostatistics	1	17	Primary Instructor	100%

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

### III. SCHOLARSHIP

#### A. Publications or Creative Works

##### 1. Peer-Reviewed Papers

1. Dawson JD, Lagakos SW (1991). Analyzing laboratory marker changes in AIDS clinical trials. *Journal of AIDS*, 4:667-76. PMID: 2051307
2. Dawson JD, Lagakos SW (1993). Size and power of two-sample tests of repeated measures data. *Biometrics*, 49:1022-32. PMC: 7906957
3. Dawson JD (1994). Comparing treatment groups on the basis of slopes, areas-under-the-curve, and other summary measures. *Drug Information Journal*, 28:723-732.

4. Dawson JD (1994). Stratification of summary statistic tests according to missing data patterns. *Statistics in Medicine*, 13:1853-1863. PMID: 7997718
5. Ely JW, Rijhsinghani A, Bowdler NC, Dawson JD (1995). The association between manual removal of the placenta and post-partum endometritis following vaginal delivery. *Obstetrics and Gynecology*, 86:1002-6. PMID: 7501321
6. Ely JW, Dawson JD, Townsend AS, Rijhsinghani A, Bowdler NC (1996). Benign fever following vaginal delivery. *Journal of Family Practice*, 43:146-51. PMID: 8708624
7. Barakatt E, Smidt GL, Dawson JD, Wei SH, Heiss D (1996). Interinnominate motion and symmetry: comparison between gymnasts and nongymnasts. *Journal of Orthopaedic and Sports Physical Therapy*, 23:309-319. PMID: 8728529
8. Ely JW, Howser DM, Dawson JD, Bowdler NC, Rijhsinghani A (1996). Practice patterns during the third stage of labor: the effect of physician age and specialty. *Journal of Family Practice*, 43:545-49. PMC: 8969701
9. Van Voorhis BK, Dawson JD, Stovall DW, Sparks AE, Syrop CH (1996). The effects of smoking on ovarian function and fertility during assisted reproduction cycles. *Obstetrics and Gynecology*, 88:785-91. PMID: 8885914
10. Ely JW, Dawson JD, Mehr DR, Burns TB (1996). Understanding logistic regression analysis through example. *Family Medicine*, 28:134-40. PMC: 8932495
11. Edmond MB, Ober JF, Dawson JD, Weinbaum DL, Wenzel RP (1996). Vancomycin-resistant enterococcal bacteremia: natural history, attributable morbidity and mortality. *Clinical Infectious Diseases*, 23:1234-39. PMID: 8953064
12. Ely JW, Dawson JD, Lemke JH, Rosenberg J (1997). An introduction to time-trend analysis. *Infection Control and Hospital Epidemiology*, 18:267-74. PMID: 9131373
13. Nygaard IE, Rao SS, Dawson JD (1997). Anal incontinence after anal sphincter disruption: a 30-year retrospective cohort study. *Obstetrics and Gynecology*, 89:896-901.
14. Souza IE, Gregg A, Pfab D, Dawson JD, Benson P, O'Neill ME, Murph JR, Bale JF (1997). Cytomegalovirus infection in newborns and family members: polymerase chain reaction analysis of isolates. *Infection*, 25:144-9. PMID: 9181380
15. Rizzo M, Reinach S, McGehee D, Dawson JD (1997). Simulated car crashes in drivers with Alzheimer's Disease. *Archives of Neurology*, 54:545-51.
16. Bergus G, Levy B, Randall C, Dawson J, Jogerst C (1997). Skills that community practicing Iowa family physicians desire in a new physician partner. *Family Medicine*, 29:618-24. PMID: 9354867
17. Sood AK, Buller RE, Burger RA, Dawson JD, Sorosky JI, Berman M (1997). Value of preoperative CA 125 level in the management of uterine cancer and prediction of clinical outcome. *Obstetrics and Gynecology*, 90:441-7. PMID: 9277659

18. Murph JR, Souza IE, Dawson JD, Benson P, Petheram SJ, Pfab D, Gregg A, O'Neill ME, Zimmerman B, Bale JF (1998). Epidemiology of congenital cytomegalovirus infection: maternal risk factors and molecular analysis of cytomegalovirus strains. *American Journal of Epidemiology*, 147:940-947. PMID: 9596472
19. Levy BT, Dawson JD, Toth PP, Bowdler N (1998). Predictors of neonatal resuscitation, low Apgar scores, and umbilical artery pH among growth-restricted neonates. *Obstetrics and Gynecology*, 91:909-16. PMID: 9610995
20. Dawson JD (1998). Sample size calculations based on slopes and other summary statistics. *Biometrics*, 54:323-30. PMID: 9544525
21. McQuade KJ, Dawson JD, Smidt GL (1998). Scapulothoracic muscle fatigue associated with alterations in scapulohumeral rhythm kinematics during maximum resistive shoulder elevation. *Journal of Orthopaedic and Sports Physical Therapy*, 28:74-80.
22. Lundberg JS, Perl TM, Wiblin RT, Costigan MD, Dawson JD, Nettleman MD, Wenzel RP (1998). Septic shock: an analysis of outcomes for patients with onset on wards versus intensive care units. *Critical Care Medicine*, 26:1020-24.
23. Lundberg J, Costigan M, Bentler S, Dawson JD, Nettleman MD, Wenzel RP (1998). Staphylococcus aureus bacteremia: the cost-effectiveness of long-term therapy associated with an infectious disease consultation. *Clinical Performance and Quality Health Care*, 6:9-11.
24. Ely JW, Goerdts CJ, Bergus GR, West CP, Dawson JD, Singh RF, Doebbeling BN (1998). The effect of physician characteristics on self-reported compliance with adult preventive care guidelines. *Family Medicine*, 30:34-9. PMID: 9460614
25. Bale JF, Zimmerman B, Dawson JD, Souza IE, Petheram SJ, Murph JR (1999). Cytomegalovirus transmission in child care homes. *Archives of Pediatric and Adolescent Medicine*, 153:75-79. PMID: 9895003
26. Davis PH, Dawson JD, Mahoney LT, Lauer RM (1999). Increased carotid intimal-medial thickness and coronary calcification are related in young and middle-aged adults: the Muscatine study. *Circulation*, 100:838-42. PMID: 10458720
27. Ely JE, Dawson JD, Young PR, Doebbeling BN, Goerdts CJ, Elden NC, Olick RS (1999). Malpractice claims against family physicians: Are the best doctors sued more? *Journal of Family Practice*, 48:23-30. PMID: 9934379
28. Rangel-Frausto MS, Wiblin T, Blumberg HM, Saiman L, Patterson J, Rinaldi M, Pfaller M, Edwards JE, Jarvis W, Dawson J, Wenzel RP, NEMIS Study Group (1999). National epidemiology of mycosis survey (NEMIS): variation in rates of bloodstream infections due to candida species in seven surgical intensive care units and six neonatal intensive care units. *Clinical Infectious Diseases*, 29:253-8.
29. Syrop CH, Dawson JS, Husman KJ, Sparks AE, Van Voorhis BJ (1999). Ovarian volume predicts assisted reproductive outcomes better than day 3 FSH. *Human Reproduction*, 14:1752-56. PMID: 10402382
30. Weissman AM, Dawson JD, Fox DL (1999). Variability in the learning experiences of family practice residents during an obstetrics rotation. *Family Medicine*, 31:28-33. PMID: 9987609

31. Janz KF, Dawson JD, Mahoney LT (2000). Changes in physical fitness and physical activity during puberty do not predict serum lipoprotein profile changes: the Muscatine study. *Pediatric Exercise Science*, 12:232-43.
32. Arndt S, Turvey C, Coryell WH, Dawson JD, Leon AC, Akiskal HS (2000). Charting patients' course: a comparison of statistics used to summarize patient course in longitudinal and repeated measures studies. *Journal of Psychiatric Research*, 34:105-113. PMID: 10758251
33. Jogerst GS, Dawson JD, Hartz AJ, Ely JW, Schweitzer LA (2000). Community characteristics associated with elder abuse. *Journal of the American Geriatrics Society*, 48:513-18. PMID: 10811544
34. Bale JF, Murph JR, Demmler GJ, Dawson J, Miller JE, Petheram SJ (2000). Intrauterine cytomegalovirus infection and glycoprotein B genotypes. *Journal of Infectious Diseases*, 182:933-36.
35. Janz KF, Dawson JD, Mahoney LT (2000). Predicting heart growth during puberty: the Muscatine study. *Pediatrics*, 105:E631-8. PMID: 10799627
36. Saiman L, Lundington E, Pfaller M, Rangel-Frausto S, Wiblin RT, Dawson J, Blumberg HM, Patterson JE, Rinaldi M, Edwards JE, Wenzel RP, Jarvis W, NEMIS Study Group (2000). Risk factors for candidemia in neonatal intensive care unit patients. *Pediatric Infectious Disease Journal*, 19:319-324.
37. Dawson JD, Han SH (2000). Stratified tests, stratified slopes, and random effects models for clinical trials with missing data. *Journal of Biopharmaceutical Statistics*, 10:447-55. PMID: 11104386
38. Graber MA, Bergus G, Dawson JD, Wood GB, Levy BT, Levin I (2000). The effect of a patient's psychiatric history on physicians' estimation of the probability of disease. *Journal of General Internal Medicine*, 15:204-6. PMID: 10718903
39. Janz KF, Dawson JD, Mahoney LT (2000). Tracking physical fitness and physical activity from childhood to adolescence: the Muscatine study. *Medicine and Science in Sports and Exercise*, 32:1250-57. PMID: 10912890
40. Rizzo M, Anderson S, Dawson J, Nawrot M (2000). Vision and cognition in Alzheimer's disease. *Neuropsychologia*, 38:1157-69.
41. Rizzo M, Anderson SW, Dawson J, Myers R, Ball K (2000). Visual attention impairments in Alzheimer's disease. *Neurology*, 54:1954-1959.
42. Davis PH, Dawson JD, Riley WA, Lauer RM (2001). Carotid intimal-medial thickness is related to cardiovascular risk factors measured from childhood through middle-age: the Muscatine study. *Circulation*, 104:2814-2819. PMID: 11733400
43. Van Voorhis BJ, Barnett M, Sparks AE, Syrop CH, Rosenthal G, Dawson J (2001). Effect of the total motile sperm count on the efficacy and cost-effectiveness of IUI and IVF. *Fertility and Sterility*, 75:661-668.

44. Rizzo M, Akutsu H, Dawson J (2001). Increased attentional blink after focal cerebral lesions. *Neurology*, 57:475-80.
45. Saiman L, Lundington E, Dawson JD, Patterson JE, Rangel-Frausto S, Wilbin RT, Blumberg HM, Pfaller M, Rinaldi M, Edwards JE, Wenzel RP, Jarvis W (2001). Risk factors for *Candida* species colonization of neonatal intensive care unit patients. *Pediatric Infectious Disease Journal*, 20:1119-1124. PMID: 11740316
46. Rizzo M, McGehee DV, Dawson JD, Anderson SN (2001). Simulated car crashes at intersections in drivers with Alzheimer's disease. *Alzheimer's Disease and Associated Disorders*, 15:10-20. PMID: 11236820
47. West CP, Dawson JD (2002). Complete imputation of missing repeated categorical data: one-sample applications. *Statistics in Medicine*, 21(2):203-217. PMID: 11782060
48. Janz KF, Dawson JD, Mahoney LT (2002). Do changes in children's physical fitness and physical activity influence their cardiovascular health during adolescence? *International Journal of Sports Medicine*, 23(Suppl 1):15-21. PMID: 12012257
49. Weissman AM, Dawson JD, Rijhsinghani A, Honkamp NJ (2002). Non-evidence-based use of Rho(D) immune globulin for threatened abortion by family practice and obstetric faculty physicians. *Journal of Reproductive Medicine*, 47(11):909-912. PMID: 12497679
50. Weissman AM, Jogerst GJ, Dawson JD (2003). Community characteristics associated with child abuse. *Child Abuse and Neglect* 27(10):1145-59. PMID: 14602096
51. Jogerst G, Daly JM, Brinig M, Dawson J, Schmuck G, Ingram J (2003). Domestic elder abuse and the law. *American Journal of Public Health*, 93(12):2131-2136. PMID: 14652346
52. Daly JM, Jogerst GJ, Brinig M, Dawson J (2003). Mandatory reporting: relationship of APS statute language on state reported elder abuse. *Journal of Elder Abuse & Neglect*, 15:1-21.
53. Jogerst GJ, Daly JM, Dawson JD, Brinig MG, Schmuck GA (2003). Required elder abuse education for Iowa mandatory reporters. *Journal of Elder Abuse & Neglect*, 15:59-73.
54. Jogerst GJ, Daly JM, Dawson JD, Brinig MF, Schmuck GA, Peek-Asa C (2004). APS investigative systems associated with county reported domestic elder abuse. *Journal of Elder Abuse & Neglect*, 16(3):1-17.
55. Uc EY, Rizzo M, Anderson SW, Shi Q, Dawson JD (2004). Driver route-following and safety errors in early Alzheimer disease. *Neurology*, 63(5):832-837. PMID: 15365132
56. Rizzo M, Stierman L, Skaar N, Dawson JD, Anderson SW, Vecera SP (2004). Effects of a controlled auditory-verbal distraction task on older driver vehicle control. *Transportation Research Record: Journal of the Transportation Research Board*, 1865:1-6.
57. McGehee DV, Lee JD, Rizzo M, Dawson J, Bateman K (2004). Quantitative analysis of steering adaptation on a high performance fixed-base driving simulator. *Transportation Research, Part F: Traffic Psychology and Behavior*, 7(3):181-196.
58. Dawson JD (2004). Quantitative analytical methods in translation research. *Worldviews in Evidence-Based Nursing*, 1(S1):S60-S64. PMID: 17129337

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179. Seaman SC, Dawson JD, Magnotta V, Menezes AH, Dlouhy BJ, (2020). Fourth Ventricle Enlargement in Chiari Malformation Type I. *World Neurosurgery*, 133:e259-e266.
180. Merickel J, High R, Dawson J, Rizzo M (2020). Real-world risk exposure in older drivers with cognitive and visual dysfunction. *Traffic Injury Prevention*, 20(sup2):S110-S115.
181. Langbehn KE, Carlson-Stadler Z, van der Plas E, Hefti MM, Dawson JD, Moser DJ, Nopoulos PC (2021). DMPK mRNA expression in human brain tissue throughout the lifespan. *Neurology Genetics*, 7(1).
182. Wang S, Sharma A, Dawson J, Rizzo M, Merickel J (2021). Visual and cognitive impairments differentially affect speed limit compliance in older drivers. *Journal of the American Geriatrics Society*.

183. Levy BT, Daly JM, Xu Y, Crockett SD, Hoffman RM, Dawson JD, Parang K, Shokar NK, Reuland DS, Zuckerman MJ, Levin A (2021). Comparative effectiveness of fecal immunochemical tests using colonoscopy as the gold standard: study protocol. *Contemporary Clinical Trials*. (Revising to Resubmit)

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

1. Dawson JD (1996). The power of measuring the association between genotypes and continuous variables in subsamples of available specimens. *ASA 1996 Proceedings of the Section on Statistical Education*, 246-9.
2. Dawson JD, Hilton SC (1997). Multivariable approaches for analyzing bounded data. *ASA 2001 Proceedings of the Biometrics Section*
3. Han SH, Dawson JD (1997). Regression to the mean and Lord's Paradox in observational studies. *ASA 1997 Proceedings of the Epidemiology Section*, 110-13.
4. Flanagan JR, Doebbeling BN, Dawson J, Beekmann S (1999). Randomized study of online vaccine reminders in adult primary care. *Proceedings of American Medical Informatics Association Symposium*, 755-759.
5. Dawson JD, Davis PH, Lauer RM (1999). Using area-under-the-curve calculations to describe the cumulative load of risk factors. *ASA 1999 Proceedings of the Section on Statistics in Epidemiology*, 64-67.
6. Rizzo M, Raby M, McGehee DV, Dawson J, Anderson SW, Bierbaum S, Mitchell R (2000). Quantification of driving performances during an auditory-verbal mental processing load. *International Conference on Traffic and Transport Psychology*, Berne, Switzerland (September 4-7): Proceedings available on CD, Swiss Council for Accident Prevention.
7. Rizzo M, Stierman L, Skaar N, Dawson JD, Anderson SW, Vecera SP (2004). Effects of a controlled auditory-verbal distraction task on older driver vehicle control. *Compendium of Papers on CD-ROM: paper number 04-3866*.
8. Dawson JD, O'Shea AM, Ghosh J (2019). Reducing high-frequency time series in driving studies. *Proceedings of the Satellite Conference 2017 of the International Association for Statistical Education (IASE)*.

## 3. Books/Monographs

### 4. Chapters

1. Davis PH, Dawson JD (2006). Relationship between cardiovascular risk factors and coronary artery intimal-medial thickness. R.M. Lauer, T.L. Burns, & S.R. Daniels (Eds.), *Pediatric Prevention of Atherosclerotic Cardiovascular Disease.*, New York, NY: *Oxford University Press*
2. Brinig MF, Jogerst GJ, Daly JM, Schmuck GA, Dawson JD (2007). The public choice of elder abuse law. M.F. Brinig (Ed.), *Economics of Family Law.*, Northampton, MA: *Edward Elgar Publishing*

3. Dawson JD (2010). Statistical considerations. D.L. Fisher, M. Rizzo, J. Caird, & J.D. Lee (Eds.), *Handbook of Driving Simulation for Engineering, Medicine, and Psychology.*, Boca Raton, FL: *CRC Press*
4. Aksan N, Dawson JD, Anderson SA, Uc EY, Rizzo M (2012). Differential and unique roles of off-road assessments to on-road safety. N.A. Stanton (Ed.), *Advances in Human Aspects of Road and Rail Transportation.* *CRC Press*404-411.
5. Tippin J, Aksan N, Dawson JD, Rizzo M (2012). Neuroergonomics of sleep and alertness. R. Proctor & A. Johnson (Eds.), *Neuroergonomics.*110-127.
6. Dawson JD, Zamba GK (2020). Establishing and maintaining inclusive pipelines. A. Golbeck (Ed.), *Leadership and Diversity in Statistics and Data Science: Planning for Inclusive Excellence* (*Accepted/In Press*)

## 5. Electronic Publications

## 6. Abstracts

1. Uc EY, Rizzo M, Shi Q, Anderson SW, Rodnitzky RL, Dawson JD (2004). Driver landmark identification and safety errors in mild-moderate Parkinson's disease. *Movement Disorders* 19(9):S193-94.
2. Uc E, Rizzo M, Shi Q, Anderson SW, Rodnitzky RL, Dawson JD (2004). Route-following and safety errors in drivers with Parkinson's disease. *Neurology* 62(7):Supplement 5:A523.
3. Davis PH, Dawson JD, Sonka M (2005). Aortic intimal-medial thickness is associated with body mass index and systolic blood pressure in normal adolescents. *Circulation*, 112:II-765.
4. Milchak JL, Carter BL, James PA, Dawson JD, Bakris GL, Black HR, Jones DW (2005). Physician adherence to JNC 7 guidelines and blood pressure control. *American Journal of Hypertension* 18(5):Suppl 1 A190.
5. Davis PH, Dawson JD (2005). Systolic blood pressure, LDL-cholesterol, and Framingham Risk Score are better predictors than the metabolic syndrome of carotid intimal-medial thickness in middle-aged adults: the Muscatine Study. *Stroke*, 36:502.
6. Dawson JD, Davis PH (2006). Carotid intimal-medial thickness in the offspring of the Muscatine cohort: analysis of risk factors and familial correlation. *Circulation*, 113:E361.
7. Dawson JD, Sonka M, Blecha MB, Davis PH (2007). Aortic and carotid intimal-medial thickness in adolescents and young adults: the Muscatine offspring study. *Circulation*, 115:E287-E288.

## 7. Other

1. Dawson JD (1996). Review of *Health and Numbers: Basic Biostatistical Methods* by Le CT and Boen Jr. *Statistical Methods in Medical Research*, 5:102-103.
2. Dawson JD (2003). Review of *Analyzing Medical Data Using S-PLUS* by Everitt B and Rabe-Hesketh S. *Journal of the American Statistical Association*, 98:773-774.

3. Aksan N, Marini R, Dawson J, Tippin J, Rizzo M (2018). Effects of actigraphically acquired sleep quality on driving outcomes in obstructive sleep apnea patients and control drivers: A naturalistic driving study *Proceedings of the 8th International Conference on Applied Human Factors and Economics*(597):242-250.

**B. Areas of Research Interest/Current Projects**

1. Adding Biostatistical Training to Medical School Curricula in Haiti (Current Project)
2. Brain imaging studies of children with Huntington's disease (Current Project)
3. Colon cancer screening (Current project)
4. Improving management of hypertension (Current Project)
5. Studies of healthy, impaired, and elderly drivers (Current Project)
6. Time-series models for driving data (Current Project)
7. Training Caregivers of Haitian Children in Homes and Orphanages (Current project)

**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
Sigma-Tau <i>Data Management Center for a Placebo Controlled Study of Acetyl-L-Carnitine in Patients with Alzheimer's Disease</i> Woolson, <i>Principal Investigator</i> J Dawson, <i>Consultant</i>	10%	01/01/1990- 12/31/1998
Pfizer <i>National Mycology Epidemiology Survey (Biostatistics Core)</i> J Dawson, <i>Principal Investigator</i>	20%	\$50,000 01/01/1993- 12/31/1998
National Institutes of Health <i>Epidemiology of Carotid Artery Atherosclerosis in Youth</i> Lauer, <i>Principal Investigator</i> J Dawson, <i>Investigator</i>	15%	\$387,658 01/01/1995- 12/31/2000

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
NICHD <i>Occupational Risk of Cytomegalovirus Infection</i> Murph, <i>Principal Investigator</i> J Dawson, <i>Investigator</i>	5%	\$184,461 01/01/1995- 12/31/2000
Centers for Disease Control <i>Iowa Injury Prevention Research Center - Preliminary Studies of Crash Avoidance Behavior in Drivers with Traumatic Brain Injury</i> Rizzo, <i>Principal Investigator</i> J Dawson, <i>Statistician</i>	2%	\$54,753 01/01/1996- 12/31/2001
College of Medicine <i>Process Improvement Grant – Outcomes of Computer-Generated Reminders to Immunize Adults According to National Guidelines</i> Doebbeling, <i>Principal Investigator</i> J Dawson, <i>Consultant</i>	2%	01/01/1996- 12/31/1997
University of Iowa Hospitals and Clinics <i>Cancer Center ACS Seed Grant: Prospective Follow-up Assessment of Cervical HPV Detection</i> Levy, <i>Principal Investigator</i> J Dawson, <i>Investigator</i>	5%	01/01/1997- 12/31/1998
NHLBI <i>Arterial Endothelial Function: An Epidemiologic Study</i> Ronald Lauer, <i>Principal Investigator</i> J Dawson, <i>Investigator</i>	10%	\$431,605 01/01/1998- 12/31/2004
NIA <i>Safe and Unsafe Driving in Old Age, Alzheimer's Disease and Stroke</i> Matthew Rizzo, <i>Principal Investigator</i> J Dawson, <i>Investigator</i>	10%	\$282,763 01/01/1999- 01/31/2004

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
5R01 AG017177 NIA <i>Predictions of Driver Safety in Advancing Age</i> Matthew Rizzo, <i>Principal Investigator</i> J Dawson, <i>Investigator</i>	10%	\$186,750 09/01/1999- 06/30/2011
National Institutes of Health <i>Epidemiology of Carotid Artery Atherosclerosis in Youth—II</i> Ronald Lauer, <i>Principal Investigator</i> J Dawson, <i>Investigator</i>	10%	\$420,124 01/01/2000- 12/31/2004
National Institutes of Health <i>Improving the Research Infrastructure of Family Medicine and General Internal Medicine</i> Cynda Johnson, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	5%	\$100,000 09/01/2000- 08/21/2003
IPRC <i>Driver Impairment, Self-Awareness, and Crash Risk in Obstructive Sleep Apnea</i> Matthew Rizzo, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Collaborator</i>	5%	\$79,203 09/01/2002- 08/31/2004
New Investigator Research Award, College of Public Health-College of Medicine, University of Iowa <i>Predicting Driver Safety in Parkinson's Disease: A Pilot Study</i> Ergun Uc, <i>Principal Investigator</i> Jeffrey Dawson, <i>Supporting</i>		\$10,000 01/01/2003- 12/31/2003
<i>Improving Adherence to Blood Pressure Guidelines</i> Barry Carter, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	10%	\$457,810 07/01/2003- 07/31/2010

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
National Institutes of Health <i>Collaborative Management of Hypertension</i> Barry Carter, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	10%	\$417,527 07/01/2003- 06/30/2006
<i>Colorectal Cancer Screening Among Patients Attending Rural Family Physicians' Practices</i> Barcey Levy, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	5%	\$100,000 09/09/2003- 08/31/2005
<i>Predicting Driver Safety in Parkinson's Disease</i> Ergun Uc, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	10%	\$231,250 09/30/2003- 06/30/2008
<i>National Surveillance for Emerging Adenovirus Infections</i> Greg Gray, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	5%	\$462,419 06/15/2004- 05/31/2009
<i>Arterial Endothelial Function – An Epidemiological Study</i> Trudy Burns, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	5%	\$509,367 07/01/2004- 05/31/2010
K01 (NIA) NIA <i>Prefrontal Brain Structures, Aging, and Decision- Making</i> Natalie Denburg, <i>Principal Investigator</i> Jeffrey Dawson, <i>Supporting</i>		\$107,912 08/01/2004- 07/31/2009
<i>Epidemiology of Carotid Artery Atherosclerosis in Youth—III</i> Patricia Davis, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	10%	\$425,973 09/15/2004- 12/31/2009

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
K23 MH068380 (NIMH) NIMH <i>Neuroscience Studies on Early Detection of Schizophrenia</i> Beng-Choon Ho, <i>Principal Investigator</i> Jeffrey Dawson, <i>Supporting</i>		\$159,884 09/01/2005- 08/31/2010
<i>In-Car Technology to Alert Attention-Impaired Drivers</i> Matthew Rizzo, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	10%	\$395,926 05/15/2006- 11/30/2010
1 T32 GM077973-01 <i>Statistics in Microbiology, Infectious Diseases &amp; Bioinformatics</i> Kathryn Chaloner, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Principal</i>		\$96,396 08/01/2006- 06/30/2011
Amgen PhD Fellowship (Gift) Kathryn Chaloner, <i>Director</i> Jeffrey Dawson, <i>Co-Director</i>		\$25,000 08/14/2006- 05/11/2009
1R21 HL087761-01 National Institutes of Health <i>The Rural Restaurant Healthy Options Program</i> Faryle Nothwehr, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	5%	\$146,087 04/01/2007- 03/31/2009
1 R01 HL082711 National Institutes of Health <i>Enhanced Continuity of Pharmacy Care for Cardiovascular or Pulmonary Diseases</i> Barry Carter, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	5%	\$475,758 06/01/2007- 03/31/2013
US Dept. of Veteran's Affairs, Iowa City VAMC <i>IPA: Effect of Aerobic Exercise in Parkinson's Disease (Biostatistical Subcontract)</i> Jeffrey Dawson, <i>Co-Principal</i> Ergun Uc, <i>Principal Investigator</i>	10%	\$32,600 01/01/2009- 12/31/2011



Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
5 R01 MS055903 National Institutes of Health <i>Growth and Development of the Striatum in Huntington's Disease</i> Peggy Nopoulos, <i>Principal Investigator</i> , <i>University of Iowa</i> Jeffrey D. Dawson, <i>Co-Investigator</i> , <i>University of Iowa/Department of Biostatistics</i>	10%	03/01/2009- 07/31/2018
1 R01 AR054439-01A2 National Institutes of Health <i>Tensor Scale-Based Methods for Assessment of Trabecular Bone Quality</i> Punam Kumar Saha, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	5%	\$266,294 06/18/2009- 05/31/2013
5 T15 HL097622 NIH <i>Iowa Summer Institute in Biostatistics (ISIB)</i> Kathryn M. Chaloner, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	4%	\$217,159 08/20/2009- 02/28/2016

*There is a nationwide shortage of biostatisticians and the shortage is having a negative impact on medical and public health research. The goal of this proposed program is to increase the number of minority undergraduates who enter graduate programs in Biostatistics or related areas. Instruction will be through case-based instruction of real biomedical research; computer laboratory training; projects; and clinical and translational research enrichment activities.*

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
5 R01 HL091917 National Institutes of Health <i>PAP Adherence and Real-World Driving Safety in OSA</i> Matthew Rizzo, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	10%	\$459,760 06/01/2010- 03/31/2015
<p><i>The broad goal of this research project is to quantify real-world driving behavior in obstructive sleep apnea (OSA) and to determine if the amount of positive airway pressure (PAP) usage needed to produce meaningful improvements in driver safety. We propose that solutions to this problem can be derived through systematic behavioral measurements of patients in real-world settings, taking advantage of technological advances that allow direct assessment of real-world driving behavior in patients at potentially increased risk for a crash due to OSA.</i></p>		
5 R01 HD062507 National Institutes of Health <i>Mechanical Stress and Skeletal Plasticity after Spinal Cord Injury in Humans</i> Richard Shields, <i>Principal Investigator</i> Jeffrey Dawson	5%	\$193,622 07/24/2010- 05/31/2015
<p><i>The long-term goal is to prevent the deleterious skeletal secondary complications that follow complete spinal cord injury (SCI). As many as twenty thousand Americans sustain an SCI each year, making it a public health concern of primary importance. Secondary complications from osteoporosis lead to bone fractures and renal complications that cost society between 4 and 7 billion dollars annually. A method to prevent bone loss after SCI would not only provide substantial savings, but could also profoundly improve the quality of life of people with SCI and keep them as viable candidates for the future cure.</i></p>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
5 R18 HS019966 AHRQ <i>Epidemiology of Rural MRSA: Is Livestock Contact a Risk Factor?</i> Tara C. Smith, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Statistician</i>  <i>Methicilin-resistant Staphylococcus aureus (MRSA) has been found in a high proportion of swine and swine workers in studies carried out in Europe and Canada. Recently, our group has identified MRSA in a small study of swine and farmers in Iowa and Illinois. We seek to determine how common colonization and infection with strains of antibiotic-resistant S. aureus are in rural Iowans, and to determine if livestock exposure represents a new risk factor for colonization and infection with antibiotic-resistant S. aureus in the United States.</i>	7%	07/01/2012-05/01/2013
Toyota Motor Engineering & Manufacturing of North America, Inc. <i>Measuring Use and Impact of In-Vehicle Technologies on Older Driver Safety</i> Matthew Rizzo, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Statistician</i>  <i>A team of experts in neurology, neuropsychology, computer science, cognitive science, human factors engineering, and biostatistics will conduct a three-year program of multidisciplinary research to comprehensively assess functional abilities and driving performance in the older and younger drivers with a range of cognitive and attentional abilities.</i>	10%	\$1,287,505 01/01/2013-06/30/2015

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
2 R01 AG017177 NIH <i>Predicting Driving Safety in Advancing Age</i> Matthew Rizzo, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	15%	\$392,101 06/01/2013- 05/31/2018
<p><i>The specific aims of this project are: 1) To obtain a comprehensive picture of age-related changes in older drivers' abilities by following longitudinally a cohort of drivers over age 65, most of whom are currently enrolled in our research on predictions of driver safety, using (a) analysis of state records of crashes and moving violations, (b) detailed assessment of cognitive abilities, and (c) measurements of driving performance from a high-fidelity driving simulator and an instrumented vehicle; 2) To study a particularly high-risk group of older drivers (ages 65 and over) who, because of non-alcohol-related, at-fault crashes or moving violations, had their licenses suspended and reinstated or revoked in the past year, and evaluate their cognitive abilities (using neuropsychological tools) and driving performance (using the simulator); and 3) To determine which cognitive impairments contribute the most to driving errors and crashes, and to develop predictive models of driving.</i></p>		
5 R01 HL116311 NIH <i>Improved Cardiovascular Risk Reduction to Enhance Rural Primary Care: I-CARE Trial</i> Barry Carter, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	4%	\$525,329 08/08/2013- 07/31/2018
<p><i>The contribution of the present study will be: 1) the development of an effective strategy to improve the management of CVD and preventive health services, and 2) to achieve key performance improvement measures using an efficient, centralized, web-based PHCVRS to support primary care providers.</i></p>		

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
R01 HD084645 National Institutes of Health <i>Musculoskeletal Plasticity after Spinal Cord Injury</i> Richard Shields, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	2%	\$207,500 05/15/2015- 01/31/2020
R01 HD082109 National Institutes of Health <i>Long Duration Activity and Metabolic Control after Spinal Cord Injury</i> Richard Shields, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	2%	\$207,500 08/01/2015- 04/30/2020
1 R25 HL131467 National Institutes of Health <i>Iowa Summer Institute for Research Education in Biostatistics (ISIREB)</i> Gideon K. Zamba, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	0.6 months 5%	\$233,111 02/15/2016- 01/31/2019

*This is a proposal to the National Institutes of Health (NIH), National Heart, Lung and Blood Institute (NHLBI), from the University of Iowa, in response to RFA-HL-16-017 for a Summer Institute for Research Education in Biostatistics. The ultimate vision of our proposed research education program is to increase the number of undergraduates who enter graduate programs in Biostatistics and to maintain a solid underrepresented minority pipeline into biostatistics graduate programs. The proposal is for the University of Iowa (UI) Department of Biostatistics to recruit a diverse group of 18 trainees each year, from 2016 to 2018, with focus on minority, underrepresented and disadvantaged students who wouldn't have otherwise been exposed to the field of biostatistics.*

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
R01 CA215034 National Institutes of Health <i>Comparative Effectiveness of Fecal Immunochemical Tests with Optical Colonoscopy</i> Barcy Levy, <i>Principal Investigator</i> Jeffrey D. Dawson, <i>Co-Investigator</i>	5%	\$728,951 08/01/2017- 07/31/2022

*Colorectal cancer (CRC) is the third most common cancer and the third leading cause of cancer death in both men and women in the U.S., with nearly 50,000 deaths each year. Fecal immunochemical tests (FITs) are a type of FOBT that can be a sensitive, specific, and low-cost alternative to colonoscopy for CRC screening. We propose to compare the test characteristics of three CLIA-waived FITs and two automated FITs, using colonoscopy as the gold standard. Our aims are: Aim 1: To assess the diagnostic accuracy for advanced colorectal neoplasms of three of the most commonly used CLIA-waived FITs and two automated FITs, using colonoscopy as the gold standard. Aim 2: To evaluate the diagnostic accuracy of two quantitative FITs using receiver operating characteristic (ROC) analysis. Aim 3: To assess factors associated with false positive and false negative FIT results for each device. These findings will provide essential information about FITs with the best test characteristics for future expanded use of FIT, critically important to achieving our long-term goal of reducing morbidity and mortality from CRC. FITs are more acceptable to patients, will allow higher screening rates, and will reduce costs as compared with a screening strategy based on colonoscopy as the primary initial screening method.*

Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
R01 HL139918 National Institutes of Health <i>Dissemination of the Cardiovascular Risk Service (CVRS Live)</i> Korey Kennelty, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>  <i>We developed an innovative team-based intervention, the Cardiovascular Risk Service (CVRS), which includes a centralized, pharmacist-led cardiovascular risk service and prevention services (e.g., vaccinations, cancer screenings) model to support primary care providers with CVD management and achievement of key performance measures. Specific aims: Aim 1: Identify, understand, and develop strategies for overcoming barriers to the adoption, implementation, and maintenance of the CVRS in diverse primary care offices. Aim 2: Determine the real-world reach and effectiveness of the CVRS in diverse primary care offices. Aim 3: Determine CVRS sustainability and adaptation in diverse primary care offices.</i>	9%	02/01/2018- 01/31/2023
R25 HL147231 National Institutes of Health <i>Iowa Summer Institute for Research Education in Biostatistics (ISIREB)</i> Gideon Zamba, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>  <i>This is a proposal to the National Institutes of Health (NIH), National Heart, Lung and Blood Institute (NHLBI), from the University of Iowa, in response to RFA-HL-19-019 for an Iowa Summer Institute for Research Education in Biostatistics (ISIREB), Summer Programs 2019, 2020, &amp; 2021.</i>	1%	03/01/2019- 02/28/2022

US Department of Veterans Affairs, Iowa City  
VAMC  
VA IPA/Long Term Aerobic Exercise to Slow  
Progression in Parkinson's Disease  
Ergun Uc, Principal Investigator  
Jeffrey Dawson, Co-Investigator

9%

07/01/2019-  
06/30/2023

*Dr. Dawson will serve as a Co-Investigator on this project and will take the lead in formal statistical analysis of study data. He will also advise protocols and procedures to support data quality and data safety monitoring. Hence, Dr. Dawson will play a key role in the intellectual development of the collection, management, and analysis of study data, as well as dissemination of project results in manuscripts and presentations at local/national/international meetings.*

*Project Summary: Our objective in this application is to fill the translational gap by determining the biological, clinical, and functional effects of long term aerobic exercise (LTAE) in PD. Our overall hypothesis is that LTAE improves brain tissue integrity and slows down PD. Our FIRST AIM is to determine the effects of LTAE on clinical features and functional abilities in PD. Our prior 6-month, uncontrolled trial showed preliminary evidence that aerobic exercise improves aspects of motor function, cognition, and QoL in PD, but long term outcomes and implication for functional abilities are unknown. We hypothesize that LTAE will provide sustained improvement in motor function, cognition, and non- motor symptoms with translation of benefits to QoL and IADL. We will test this with a one-year randomized controlled trial (RCT) that compares the effects of moderate aerobic exercise vs usual care. We will use driving as the outcome for IADL. Driving represents an important symbol for independence, and depends on integrity of cognitive and motor systems. Our SECOND AIM is to determine the mechanism of LTAE effects in PD. CRF reflects complex improvements in vascular, cardiac, and metabolic health from aerobic exercise. There is preliminary evidence that higher CRF is associated with better brain health and motor/cognitive function, and that aerobic exercise improves these outcomes. For example, our preliminary study showed*



Source Title P.I.	Number of Months % Effort	Direct Funds Period of Funding
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*improvement of microtissue integrity in the striatum and white matter on DTI, but it is unclear how these changes counteract PD progression over long term. Our hypotheses are: 1) LTAE will improve brain tissue integrity as indexed by DTI, 2) LTAE effects on motor and cognitive function are mediated by changes in brain tissue integrity on DTI, and 3) physiological processes leading to improved CRF from AE are critical to the benefits on the brain tissue integrity and motor/cognitive function.*

No Contract # University of Nebraska Medical Center <i>Monitoring Real-World Driver Behavior for Classification and Early Prediction of Alzheimer's Disease</i> Matthew Rizzo, <i>Principal Investigator</i> Jeffrey Dawson, <i>Co-Investigator</i>	9%	\$24,010 09/01/2020- 08/31/2021
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*This project tackles the NIA's 2019 grand challenge of using a person's own vehicle as a passive-detection system for flagging potential age- and/or disease-related aberrant driving that may signal early warning signs of functional decline and incipient Alzheimer's disease (AD), even before standard clinical tests. Aim 1: Extract key real-world driver behavior features over a 3-month continuous, baseline period that classify normally aging, MCI, and ACS drivers by NIA-AA core clinical criteria. Aim 2: Determine the extent to which real-world driver sleep and mobility factors, collected over a continuous, 3-month baseline period, mediate the relationship between extracted driver behavior and clinical features (described in Aim 1). Develop models (statistical and supervised machine learning) that combine extracted features of driver behavior (from Aim 1) and real-world sleep and mobility (SA2) to detect early signs of MCI and AD and predict disease progression.*

## 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>
1991	A Comparison of Summary Statistic Methods for Analyzing Repeated Measure Data in Comparative Clinical Trials (Dawson J)	NIAID Workshop on Longitudinal Analysis of Marker Data	Invited Lecture
1993	Comparing Treatment Groups on the Basis of Slopes, Areas-Under-The-Curve, and Other Summary Measures (Dawson JD)	Drug Information Association Statistical Workshop, Hilton Head, South Carolina	Invited Lecture
1994	Comparing the Time-to-Threshold and Summary Statistic Methods for Analyzing Repeated Measures (Dawson J)	Departmental Seminar Series, Department of Biostatistics, Johns Hopkins University, Baltimore, Maryland	Invited Lecture
1994	Comparing the Time-to-Threshold and Summary Statistics Methods for Analyzing Repeated Measures (Dawson J)	Departmental Seminar Series, Department of Statistics, Iowa State University	Invited Lecture
1994	Sample Size and Power of 2-Group Tests of Repeated Measures Data (Dawson J)	Annual Meeting, Association of Schools of Public Health, Washington, D.C.	Invited Lecture
1994	Two-Sample Comparisons of Repeated Measures Data: Size, Robustness, and Power (Dawson J)	Harvard/Schering-Plough Clinical Trial Workshop, Boston, Massachusetts	Invited Lecture
1996	Comparing Treatment Groups on the Basis of Summary Measures (Dawson J)	Merck & Co., Rahway, New Jersey	Invited Lecture
1997	Short Course in Biostatistics (Dawson J)	SangStat, Ltd, Princeton, New Jersey	Invited Lecture

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1999	Stratified Tests of Summary Measures: A Non-Interactive Approach for Incorporating Missing Data in Longitudinal Comparative Studies (Dawson JD)	Sixth Annual Biopharmaceutical Applied Statistics Symposium, Hilton Head, South Carolina	Invited Lecture
2000	Longitudinal Repeated Measures Data: Multivariate Representations Versus Random Effects Models (Dawson JD)	25th Annual BYU Summer Institute of Applied Statistics, Provo, Utah	Invited Lecture
2000	Stratification Due to Missing Data in Longitudinal Studies (Dawson J)	Utah Chapter of the American Statistical Association, Provo, Utah	Invited Lecture
2001	Common Statistical Errors and Pitfalls in Bioscience Research (Dawson J)	BYU Statistics Department	Invited Lecture
2001	Winter Faculty Enrichment Series: Survival Analysis (Dawson J)	BYU Statistics Department	Invited Lecture
2006	Common Statistical Errors in Clinical and Laboratory Research (Dawson J)	Departments of Biology and Psychology, Drake University	Invited Lecture
2008	Using Simulators and Instrumented Vehicles to Study High-risk Drivers (Dawson J)	Statistics Department, Brigham Young University	Invited Lecture
2014	Overview of Biostatistics (Dawson JD)	Short Course, L'Université Notre-Dame d'Haïti Medical School, Turgeau, Port-au-Prince, Haiti	Invited Lecture
2014	Proportional Hazards in Survival Analysis (Dawson JD)	Survival Analysis Class, Brigham Young Statistics Department, Provo, Utah	Invited Lecture
2014	Seven Deadly Sins of Statistical Research (Dawson JD)	Special Seminar, Brigham Young Statistics Department, Provo, Utah	Invited Lecture

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2014	Teaching Statistical Ethics via Lectures, Group Discussions, and Peer Mentoring (Dawson JD)	Meeting of the Association of Clinical and Translational Statisticians, Association of Clinical and Translational Statisticians, Boston, Massachusetts	Invited Lecture
2014	Trends and Challenges in Research Involving Elderly and Impaired Drivers (Dawson JD)	Rush Alzheimer's Disease Core Research Center Seminar, Rush University Medical Center, Chicago, Illinois	Invited Lecture
2015	Anecdotes/Issues in Ethics: Consulting, Research, and Teaching	60th World Statistics Congress (ISI 2015), International Statistical Institute, Rio de Janeiro, Brazil	Invited Lecture
2015	Avoiding Accidents on the Big Data Highway: Lessons Learned from 20 Years of Driving Research (Dawson J)	Grand Rounds, University of Nebraska College of Public Health, Omaha, Nebraska	Invited Lecture
2015	Driving Studies in Healthy and Impaired Populations: Practical and Statistical Issues (Dawson J)	Fall Meeting, ASA, Nebraska Chapter	Invited Lecture
2015	Overview of Biostatistics (Dawson JD)	Short Course, L'Université Notre-Dame d'Haïti Medical School, Turgeau, Port-au-Prince, Haiti	Invited Lecture
2016	Overview of Biostatistics (Dawson JD)	Short Course, L'Université Notre-Dame d'Haïti Medical School, Turgeau, Port-au-Prince, Haiti	Invited Lecture
2016	Reproducible Research and Other Best Practices for Biostatisticians (Dawson JD)	Albert Einstein Medical Center, New York, New York	Invited Lecture
2017	Biostatistics: Statistics in Medicine and Public Health (Dawson JD)	Short Course, L'Université Notre-Dame d'Haïti Medical School, Turgeau, Port-au-Prince, Haiti	Invited Lecture

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2017	Seven Deadly Sins of Statistical Collaboration (Dawson JD)	Memorial Sloan Kettering Cancer Institute, New York, New York	Invited Lecture

## 2. Conference Presentations/Posters

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1992	Conditional and Unconditional Summary Statistic Tests of Repeated Measure Data (Dawson JD)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Boston, Massachusetts	Oral
1993	Sample Size Calculations Based on Slopes and Other Summary Statistics (Dawson JD)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS	Oral
1995	Comparing Likelihood-Based and Nonparametric Longitudinal Methods in the Presence of Informative and Noninformative Missing Data (Dawson JD, Han SH)	ENAR Spring Meeting, International Biometric Society (ENAR), Birmingham, Alabama	Oral
1995	Extending the Conditional Linear Model to General Random Effects (Yang HP, Dawson JD)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Orlando, Florida	Oral
1996	Biostatistics Orientation (Dawson J)	Department of Preventive Medicine and Environmental Health, Biostatistics Division, Carver College of Medicine, The University of Iowa	Oral
1996	The Power of Measuring the Association between Genotypes and Continuous Variables in Subsamples of Available Specimens (Dawson JD)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Chicago, Illinois	Oral
1997	Regression to the Mean and Lord's Paradox in Observational Studies (Dawson JD, Han SH)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Anaheim, California	Oral

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1999	Using Area-Under-the-Curve Calculations to Describe the Cumulative Load of Risk Factors (Dawson JD, Davis PH, Lauer RM)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Baltimore, Maryland	Oral
2001	Multivariable Approaches for Analyzing Bounded Data (Dawson JD, Hilton SC)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Atlanta, Georgia	Oral
2004	The Effect of Observational Unit Size on Poisson Goodness-of-Fit Tests (Dawson JD, Ely JW)	ENAR Spring Meeting, International Biometric Society (ENAR), Pittsburgh, Pennsylvania	Oral
2005	Defining and Assessing Endpoints in Driving Simulator Tasks (Shi Q, Stierman LM, Dawson JD, Rizzo M)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Minneapolis, Minnesota	Poster
2006	Carotid Intimal-Medial Thickness in the Offspring of the Muscatine Cohort: Analysis of Risk Factors P250 and Familial Correlation (Dawson JD, Davis PH)	46th Annual Conference on CVD Epidemiology and Prevention, American Heart Association, Phoenix, Arizona	Oral
2006	Measuring Lateral Control in Driving Studies (Dawson JD, Cavanaugh JE, Zamba KD, Rizzo M)	Biometric Society (ENAR) Annual Meeting, Tampa, Florida	Oral
2006	Carotid Intimal-Medial Thickness in the Offspring of the Muscatine Cohort: Analysis of Risk Factors P250 and Familial Correlation (Dawson JD, Davis PH)	AHA 46th Annual Conference on CVD Epidemiology, Phoenix, Arizona	Poster
2006	Defining and Assessing Endpoint in Driving Simulator Tasks (Shi Q, Stierman LM, Dawson JD, Rizzo M)	University of Iowa Research Week, College of Public Health, College of Medicine, and VA Hospital	Poster
2006	Measuring Lateral Control in Driving Studies (Dawson JD, Cavanaugh JE, Zamba KD, Rizzo M)	ENAR Spring Meeting, International Biometric Society (ENAR), Tampa, Florida	Poster

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2007	Important Statistical Issues in Research (Dawson J)	Department of Internal Medicine, Carver College of Medicine, The University of Iowa	Oral
2007	Aortic and Carotid Intimal-Medial Thickness in Adolescents and Young Adults: the Muscatine Offspring Study (Dawson JD, Sonka M, Blecha MB, Lin W, Wang Q, Davis PH)	AHA 46th Annual Conference on CVD Epidemiology, Orlando, Florida	Poster
2007	Factors Affecting Vehicular Lateral Control Measures in Driving Simulators (Dawson JD, Cosman JD, Lei Y, Dastrup E, Sparks J, Rizzo M)	ENAR Spring Meeting, International Biometric Society (ENAR), Atlanta, Georgia	Poster
2007	Modeling Lateral Position and Control in Driving Studies of Elderly Populations (Dawson JD, Cavanaugh JE, Zamba KD, Rizzo M)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Salt Lake City, Utah	Poster
2008	Aortic and Carotid Intimal-Medial Thickness in Adolescents and Young Adults: Updated Results from the Muscatine Offspring Study (Dawson JD, Lin W, Davis PH)	Hawaii International Conference on Statistics, Mathematics, and Related Fields, Honolulu, Hawaii	Poster
2008	Assessment of Comparability, Reliability, and Predictability in Medical Studies (Dawson JD, Lin W, Davis PH)	Hawaii International Conference on Statistics, Mathematics, and Related Fields, Honolulu, Hawaii	Poster
2008	Modeling The Variability Of Lateral Vehicular Control (Dawson JD, Cavanaugh JE, Zamba KD, Rizzo M)	10th International Conference on Applications of Advanced Technologies in Transportation, Athens, Greece	Poster
2009	Crashes, Moving Violations, and Driving Cessation in Early Alzheimer's Disease (Dawson JD, Dastrup E, Uc EY, Anderson SW, Rizzo M)	Annual Meeting, American Academy of Neurology, Seattle, Washington	Oral

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2009	Crashes, Moving Violations, and Driving Cessation in Early Alzheimer's Disease (Dawson JD, Dastrup E, Uc EY, Anderson SW, Rizzo M)	Annual Meeting of the American Academy of Neurology, Seattle, Washington	Poster
2009	Relationship Between Cognition and Driving Safety in Alzheimer's Disease (Dawson JD, Anderson SW, Uc EY, Dastrup E, Rizzo M)	Annual Meeting of the American Neurological Association, Salt Lake City, Utah	Poster
2010	Joint Modeling of Correlated Recurrent and Terminal Events with Multivariate Frailty in the Analysis of Driving Safety Data in Old Drivers with Neurological Diseases (Liu DA, Uc E, Dastrup E, Porter A, Dawson JD, Rizzo M)	ENAR Spring Meeting, International Biometric Society (ENAR), New Orleans, Louisiana	Oral
2010	Modeling Time Series Data with Semi-Reflective Boundaries with Application of Lateral Control of Motor Vehicles (Johnson AM, Dawson JD)	ENAR Spring Meeting, International Biometric Society (ENAR), New Orleans, Louisiana	Oral
2010	Nested and Block Designs in Multi-Clinic Intervention Studies (Dawson JD, Ardery G, Carter BL, Lesh SM)	3rd Annual NIH Conference on the Science of Dissemination and Implementation: Methods and Measurement, Washington, District of Columbia	Oral
2010	Trends and Challenges in Research Involving Elderly and Impaired Drivers (Dawson JD, Dastrup E, Johnson AM, Uc EY, Rizzo M)	International Biometric Society (ENAR) Annual Spring Meeting, New Orleans, Louisiana	Oral
2010	Trends and Challenges in Research Involving Elderly and Impaired Drivers (Dawson J)	Topic Contributed Section, ENAR 2010, New Orleans, Louisiana	Oral



<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2011	Analysis of High-Frequency Measures of Lateral Vehicular Control in Healthy and Impaired Populations (Dawson J)	Fall Technical Conference of ASA's Section on Physical and Engineering Sciences, Kansas City, Missouri	Oral
2011	Data Reduction of Electronic Measures in Driving Studies (Dawson JD, Johnson AM, Mills ED, Uc EY, Rizzo M)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Miami Beach, Florida	Oral
2011	Semicontinuous Model Misspecification: Zero-Inflated Log-Normal and Zero-Inflated Gamma Distributions (Miles ED)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Miami Beach, Florida	Oral
2013	Time Series Data with Semi-Reflective Boundaries: Single-Pass and Iterative Methods (Johnson AM, Dawson JD)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Montreal, Canada	Oral
2013	Self-Centering Time Series Data: Single-Pass & Iterative Methods (Johnson AM, Dawson JD)	10th International Conference on Health Policy Statistics, American Statistical Association, Chicago, Illinois	Poster
2014	Modeling Driving Behavior Using Advanced Data Collection Methods (Dawson JD)	Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Boston, Massachusetts	Oral
2014	Overview of Rehabilitation (Dawson JD)	Food for the Poor's Little Children of Jesus Orphanage Caregiver School, Santo, Ouest, Haiti	Oral
2015	Driving Studies in Healthy and Impaired Populations: Practical and Statistical Issues (Dawson J)	WNAR Annual Meeting, International Biometric Society (WNAR), Boise, Idaho	Oral
2017	Nontechnical Errors in Statistical Collaborative Research (Dawson JD)	International Statistical Institute (ISI), Marrakech, Morocco	Oral

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2017	Training Statistics Graduate Students in Ethics, Reproducible Research, and Other Best Practices (Dawson JD)	International Association for Statistical Education (IASE), Rabat, Morocco	Oral
2019	Reducing High-Frequency Time Series Data in Driving Studies (Dawson JD, O'Shea AM, Ghosh J)	International Association for Statistical Education (IASE), Kuala Lumpur, Malaysia	Oral

### 3. Other Presentations

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1987	Data Quality Assurance in Field Studies	Department of Statistics Seminar, Brigham Young University, Provo, Utah	Seminar
1989	Computing Module (2 weeks/year, 35 hours/week)	New MPH Student Orientation Sessions, Harvard School of Public Health	Demonstration
1990	Computing Module (2 weeks/year, 35 hours/week)	New MPH Student Orientation Sessions, Harvard School of Public Health	Demonstration
1990	Using Summary Statistics to Test Treatment Effect on CD4 Counts (Dawson J)	Harvard AIDS Institute's HIV Disease Working Group, Department of Biostatistics, Harvard School of Public Health	Seminar
1991	Repeated Measures Longitudinal Data (Dawson J)	UIHC Clinical Epidemiology Group, The University of Iowa	Seminar
1992	Intention-to-Treat and Missing Data in Clinical Trials (Dawson J)	Department of Preventive Medicine and Environmental Health, Carver College of Medicine, The University of Iowa	Seminar
1992	Sample Uses of Proc IML in SAS (Dawson J)	Department of Preventive Medicine and Environmental Health, Carver College of Medicine, The University of Iowa	Seminar

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
1992	Using Logrank Tests of Time-to-Threshold Survival Data in Repeated Measures Settings (Dawson J)	Department of Preventive Medicine and Environmental Health, Carver College of Medicine, The University of Iowa	Seminar
1994	Sample Size Calculations for Repeated Measures Studies (Dawson J)	Department of Preventive Medicine and Environmental Health, Carver College of Medicine, The University of Iowa	Seminar
1997	Adjusting for Baseline Differences in Observation Studies (Dawson J, Han SH)	Department of Preventive Medicine and Environmental Health, Biostatistics Division, Carver College of Medicine, The University of Iowa	Seminar
1997	Research Skills Workshop Series (6-hr short course) (Dawson J)	The University of Iowa, Iowa City, Iowa	Seminar
1998	Research Skills Workshop Series (6-hr short course) (Dawson J)	The University of Iowa	Seminar
1999	Using AUC Calculations to Describe the Cumulative Load of Risk Factors (Dawson JD, Davis PH, Lauer RM)	Biostatistics Department, College of Public Health, The University of Iowa	Seminar
2000	Avoiding Common Statistical Errors When Conducting Scientific Research (Dawson J)	College of Dentistry, The University of Iowa	Seminar
2000	Statistic Issues and Errors in the Design, Implementation, Analysis, Presentation, and Review of Scientific Research (Dawson J)	Department of Family Medicine, Carver College of Medicine, University of Iowa	Seminar
2001	Approaches for Analyzing Bounded Data (Dawson J)	Biostatistics Department, College of Public Health, The University of Iowa	Seminar

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2003	Quantitative Analytical Methods in Translation Research (Dawson J)	Advancing Quality Care Through Translation Research, Agency for Healthcare Research and Quality	Seminar
2004	Variability, Independence, and Sample Size Issues in Medical Research (Dawson J)	Department of Internal Medicine, Carver College of Medicine, The University of Iowa	Seminar
2005	Ethical Guidelines for Biostatisticians	Department of Biostatistics, University of Iowa	Seminar
2008	Job Interview Skills for Biostatisticians (Dawson J)	Biostatistics Student Organization, University of Iowa	Demonstration
2008	Applied and Methodological Work in Driving Studies (Dawson J)	Biostatistics Student Organization Academic Club, The University of Iowa	Seminar
2009	Overview of Rehabilitation and Range-of-Motion Exercises (Dawson J)	Caregivers Class at Klinik Kay Kapab, Healing Hands for Haiti International Foundation Inc., Port-au-Prince, Haiti	Demonstration
2009	An Introduction to the Field of Biostatistics (Dawson J)	Math Club, The University of Iowa	Seminar
2009	Missing and Sparse Data and Other Issues of Bias (Dawson J)	Neurology Department, Carver College of Medicine, The University of Iowa	Seminar
2009	Statistical Issues in Research: Design and Analysis (Dawson J)	Neurology Department, Carver College of Medicine, The University of Iowa	Seminar
2010	A Time-Series Model for Lateral Control in Driving Studies	Department of Biostatistics, University of Iowa	Seminar
2010	Thinking Outside the Box-Plot: Outreach in Haiti and Other Non-Traditional Roles for Biostatisticians	Department of Biostatistics, University of Iowa	Seminar

<u>Year</u>	<u>Title</u>	<u>Organization</u>	<u>Presentation Type</u>
2011	Childhood Development (Dawson JD)	Caregivers Class at New Life Orphanage, Healing Hands for Haiti International Foundation Inc., Port-au-Prince, Haiti	Demonstration
2013	Overview of Rehabilitation (Dawson JD)	Caregivers Class at Notre Maison Orphanage, Healing Hands for Haiti International Foundation Inc., Santo, Ouest, Haiti	Demonstration
2014	Overview of Rehabilitation (Dawson JD)	Caregivers Class at Food for the Poor Orphanage, Healing Hands for Haiti International Foundation Inc., Santo, Ouest, Haiti	Demonstration
2015	Overview of Rehabilitation (Dawson JD)	Caregivers Class at Notre Maison Orphanage, Healing Hands for Haiti International Foundation Inc., Santo, Ouest, Haiti	Demonstration
2016	Overview of Rehabilitation (Dawson JD)	Caregivers Class at Food for the Poor Orphanage, Humanitize Expeditions, Santo, Ouest, Haiti	Demonstration
2017	Overview of Rehabilitation (Dawson JD)	Caregivers Class at Notre Maison Orphanage, Humanitize Expeditions, Santo, Ouest, Haiti	Demonstration
2020	Effect of COVID19 on Teaching in Higher Education	Ashley Vonorny, Cedar Rapids City Council Member, Brazil	Panel

#### **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>
1993	Statistical Biostatistics Doctorate Programs for the National Research Council	Reviewer
1997	NIH-NAIDS-DAIDS statistical and clinical coordinating center applications	Reviewer
1998	NIH-NAIDS-DAIDS Study Section Committee for statistical and clinical coordinating center applications	Member
1999-2000	NIH-NHLBI special emphasis panel	Reviewer
2003	NIH-NHLBI review panel for peripheral artery disease grants	Reviewer
2004-2012	National Medical Research Council	Reviewer
2004	NIH review panel for clinical & statistical coordinating center applications	Reviewer
2005	NIH review panel for SCOR in Hemostatic and Thrombotic Diseases	Reviewer
2006	NIH review panel for applications studying chronic kidney disease	Reviewer
2007	Canada Foundation for Innovation	Reviewer
2009	Review panel for tenure candidacy of college of medicine faculty member, University of California	Reviewer
2009	U.S. Department of Transportation medical expert review panel on driving licensure regulations for interstate commerce	Member
2010	NCI focus panel on the HINTS database	Member

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2017-Present	FMCSA Vision Standard Peer Review Committee, University of Alabama-Birmingham	Reviewer
2017-Present	Truck and Bus Maintenance Proposal Review Committee, Virginia Tech Transportation Institute	Reviewer

### **3. Professional Organizations (state and/or national)**

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1987-Present	American Statistical Association	Member
1992-Present	International Biometric Society (ENAR)	Member
1993-2003	Drug Information Association	Member
1996	National Cancer Institute Grant Review Panel	Member
1996	National Institutes of Health General Clinical Research Center Site Visit Team	Member
1997	American Public Health Association	Member
2000-2006	Society for Clinical Trials	Member
2013-2015	Council of Chapters Governing Board, American Statistical Association	Vice Chair for District 4
2021-2023	Council of Chapters Governing Board, American Statistical Association	Chair Elect

## **B. Other Professional Service**

### **1. Referee Manuscripts/Journal Reviews**

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1991-2005	JASA	Reviewer
1992-1995	Am Journal of Public Health	Reviewer

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1993-1994	Am Journal of Medicine	Reviewer
1993	The Anatomical Record	Reviewer
1994-2008	Statistics in Medicine	Reviewer
1995-2003	Biometrics	Reviewer
1995-1998	JOSPT	Reviewer
1995	Journal of AIDS	Reviewer
1996-2004	Am Journal of Psychiatry	Reviewer
1996-2003	Statistics in Medicine	Reviewer
1996-2002	Controlled Clinical Trials	Reviewer
1997	Journal of Statistical Planning & Inference	Reviewer
1998-2002	Regional Anesthesia and Pain Medicine	Reviewer
1998	Statistical Methods	Reviewer
1999-2006	Communications in Statistics	Reviewer
1999	Introduction to Biostatistics	Reviewer
2001	Bold Face Editors	Reviewer
2002-2012	Circulation	Reviewer
2003	JAMA	Reviewer
2004	Arteriosclerosis, Thrombosis, and Vascular Biology	Reviewer
2006-2009	Editorial Board, American Journal of Preventive Medicine	Member
2006	Computational Statistics and Data Analysis	Reviewer
2006	Statistical Papers	Reviewer
2007	Journal of Statistical Computing and Simulation	Reviewer



<u>Year</u>	<u>Organization</u>	<u>Position</u>
2007	The American Statistician	Reviewer
2009-2015	Driving Assessment Conference	Reviewer
2010-2016	Journal of the American Geriatric Society	Reviewer
2010	Circulation, Arrhythmia & Electrophysiology	Reviewer
2011	Psychology and Aging	Reviewer
2012-Present	Neurosurgery	Reviewer
2012-2017	Accident Analysis and Prevention	Reviewer
2012-2015	Journal of the Society for Clinical Trials	Reviewer
2015	Computers in Biology and Medicine	Reviewer
2015	Movement Disorders	Reviewer

## **2. Organize Conference, Paper Session, etc.**

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1997	Biopharmaceutical Section, Annual Joint Statistical Meetings, American Statistical Association	Session Chair
2005	Joint Statistical Meetings	Session Chair
2005	Statistical Issues in Driving Studies (Topic Contributed Session), Joint Statistical Meetings	Member
2006	International Biometric Society (ENAR) – Spring Meetings	Session Chair
2008	Hawaii International Conference on Statistics, Mathematics, and Related Fields	Session Chair
2011	Joint Statistical Meetings	Session Chair
2014	Joint Statistical Meetings	Session Chair
2015	Joint Statistical Meetings	Session 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>
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1993-1995	Family Practice Research Development Fund Review Committee	Member
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2004	Accredited Schools of Public Health, member of focus group on curriculum review for women's health	Member
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### 5. Professionally Relevant Community Involvement

<u>Year</u>	<u>Organization</u>	<u>Position</u>
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2004-2013	Completed Youth Protection Training, Hawkeye Council of BSA	Participant
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2004-2009	Iowa Department of Transportation	Several meetings with Iowa DOT officials to discuss strategies for improving driver safety
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2004	Completed Youth Protection Training, Hawkeye Council of BSA	Participant
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2008	Helping local high school student with epidemiological research project	Mentor
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2008	Neighborhood liaison and host for local flood clean-up efforts	Organizer
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2009-2015	Healing Hands for Haiti International	Public health outreach and teaching in orphanages and community centers in Haiti
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2015-Present	Humanitize Expeditions	Public health outreach and teaching in orphanages and community centers in Haiti
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### 6. Professional Consulting

<u>Year</u>	<u>Organization</u>	<u>Position</u>
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<u>Year</u>	<u>Organization</u>	<u>Position</u>
1994	Miles Pharmaceutical, Berkeley, CA	Statistical Consultant
1996	Merck and Co., Rahway, NJ	Statistical Consultant
1999	Region VII Chlamydia Control Project	Statistical Consultant
2003	Adolescent Health & Resource Center, Iowa City, IA	Statistical Consultant
2004-2007	DMV International, Delhi, NY	Statistical Consultant
2006	Alzheimer's Disease Research Centers of California (USC, UC-Davis, & UCSF)	Statistical Consultant
2008-2015	Healing Hands for Haiti International Foundation, Port-Au-Prince, Haiti	Statistical Consultant & Interpreter
2011	Project Medishare for Haiti Port-au-Prince, Haiti	Logistics Consultant for Medical Warehouse
2015-Present	Humanitize Expeditions	Haitian Creole Interpreter

## 7. Other

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2003-2012	Data Safety and Monitoring Board member for stroke clinical trial	Member
2005-2010	Data Safety and Monitoring Board for dermatology clinical trial	Chair

## C. Departmental, Collegiate or University Service

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1991-1999	University of Iowa, Department of Preventive Medicine, PMEHC Curriculum Committee	Member
1992	Biostatistics PhD Specialty Examination Committee	Chair
1993-1995	Family Practice Research Development Fund Review Committee	Member

<u>Year</u>	<u>Organization</u>	<u>Position</u>
1993-1994	University of Iowa, Biostatistics Seminars Committee	Chair
1993	Department of Biostatistics, University of Iowa, Biostatistics PhD Comprehensive Examination Standards Committee	Member
1995-1998	Department of Preventive Medicine, College of Medicine, University of Iowa, Biostatistics M.S. Exam Committee	Member
1996-2000	Department of Biostatistics, University of Iowa, Faculty Advisor, Biostatistics Student Association	
1996-1997	Department of Biostatistics, University of Iowa, Biostatistics Seminars Committee	Chair
1997-1998	Department of Biostatistics, University of Iowa, Biostatistics PhD Comprehensive Exam Committee	Member
1998-2005	Human Subjects Committee (Institutional Review Board)	Member
2001-2004	College of Public Health, University of Iowa, MPH Advisory Committee	Member
2001-2002	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Seminars Committee	Chair
2002-Present	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Admissions and Student Recruitment Committee	Member
2002-2003	Department of Biostatistics, College of Public Health, University of Iowa, Biostatistics Masters Exam Committee	Chair

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2004-2009	Department of Biostatistics, College of Public Health, University of Iowa, Departmental Curriculum Committee	Member
2005-2009	Biostatistics Administrative Committee	Member
2006-2009	Department of Biostatistics, College of Public Health, University of Iowa, Departmental Student Awards Committee	Chair
2006-2008	Departmental Self-Study Report Committee	Member
2006-2007	Department MPH Committee	Chair
2006-2007	Department of Biostatistics, College of Public Health, University of Iowa, Masters Examination Committee	Member
2006-2007	Department of Biostatistics, College of Public Health, University of Iowa, MPH Committee	Chair
2006	Review Committee for the Program in Public Health Genetics	Member
2007-2016	Department of Biostatistics, College of Public Health, University of Iowa, MS Examination Committee	Member
2007-2010	CPH Faculty Council	Member
2007-2010	Department of Biostatistics, College of Public Health, University of Iowa, Departmental MPH Committee	Chair
2007-2008	CPH Faculty Council	Co-Chair
2008-2009	CPH Faculty Council	Chair
2009-2011	CPH Promotion and Tenure Committee	Chair

<u>Year</u>	<u>Organization</u>	<u>Position</u>
2010-Present	CPH Executive Committee (Associate Dean for Faculty Affairs)	Member
2016-Present	Biostatistics Student Awards Committee	Member
2016-Present	CPH Undergraduate Public Health Methods Course Developers Group	Member
2016-Present	M.S. Core Exam Committee	Member
2019-Present	Biostatistics Diversity, Equity, and Inclusion Committee, Chair 2020- 2021	Member
2020-Present	CPH Global Public Health Committee	Member