

# Jeffrey D. Dawson

College of Public Health Curriculum Vitae

Department of Biostatistics

jeffrey-dawson@uiowa.edu

(319) 384-1510

October 2024

## Educational and Professional History

### Degrees Earned

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|------|---|
| 1987 | BS in Statistics (Minor:Mathematics), Brigham Young University, Provo, Utah<br>Honors/Distinctions: Magna cum laude         |
| 1991 | ScD in Biostatistics (Minors:Human Biology, Theoretical Statistics), Harvard School of Public Health, Boston, Massachusetts |

### Employment History

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|----------------|--|
| 1988           | Summer Trainee, Dana-Farber Cancer Institute, Boston, Massachusetts  |
| 1989 - 1990    | Research Assistant, Harvard University, Boston, Massachusetts  |
| 1987 - 1991    | Teaching Assistant, Harvard University, Boston, Massachusetts  |
| 1991 - 1997    | Assistant Professor, Department of Preventive Medicine and Environmental Health (Division of Biostatistics), Carver College of Medicine, The University of Iowa, Iowa City, Iowa |
| 1997 - 1999    | Associate Professor, Department of Preventive Medicine and Environmental Health (Division of Biostatistics), Carver College of Medicine, The University of Iowa, Iowa City, Iowa |
| 2000 - 2001    | Visiting Professor, Brigham Young University, Provo, Utah  |
| 1999 - 2009    | Associate Professor, Department of Biostatistics, College of Public Health, The University of Iowa, Iowa City, Iowa  |
| 2003 - 2012    | Director of Graduate Studies, Department of Biostatistics, College of Public Health, The University of Iowa, Iowa City, Iowa   |
| 2009 - Present | Professor, Department of Biostatistics, College of Public Health, The University of Iowa, Iowa City, Iowa  |
| 2011 - Present | Associate Dean for Faculty Affairs, College of Public Health, The University of Iowa, Iowa City, Iowa  |
| 2023 - Present | Fulbright Mentor, University of Iowa, Iowa City, Iowa  |

### Honors and Awards

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|------|--|
| 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	Inducted into Delta Omega Honorary Society in Public Health
2013 - 2014	Academic Leadership Program Fellow, Committee on Institutional Cooperation
2013 - 2015	ASA Council of Chapters Governing Board (District 4 Vice Chair)
2016	Inducted as Fellow of the American Statistical Association, American Statistical Association
2021 - 2023	Chair of ASA Council of Chapters Governing Board
2022 - Present	Chair, CPH Global Public Health Initiative
2022 - Present	Statistical Consultant for African Institute for Professional Development, ASA Statistics Without Borders
2023 - Present	Fulbright Mentor, University of Iowa International Programs

## Teaching

### Course Teaching

#### University of Iowa

Fall 1991	Introduction to Biostatistics, 63:161, Credit Hours: 3, Enr: 44, Percent of Course: 100.0%
Spring 1992	Introduction to Biostatistics, 63:161, Credit Hours: 3, Enr: 35, Percent of Course: 100.0%
Fall 1992	Biostatistical Methods I, 63:176, Credit Hours: 4, Enr: 5, Percent of Course: 100.0%
Spring 1993	Biostatistical Methods II, 63:276, Credit Hours: 4, Enr: 7, Percent of Course: 100.0%
Spring 1993	Preceptorship in PM & EH, 63:203, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Summer 1993	MSTP Summer Research, 50:211, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Spring 1994	Biostatistical Methods II, 63:276, Credit Hours: 4, Enr: 4, Percent of Course: 100.0%
Spring 1994	Design & Analysis of Experiments in the Biological Sciences, 63:162, Credit Hours: 3, Enr: 32, Percent of Course: 100.0%
Spring 1994	Preceptorship in PME, 63:203, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Spring 1994	Thesis, 63:300, Credit Hours: 5, Enr: 1, Percent of Course: 100.0%

Fall 1994	Biostatistical Methods I, 63:176, Credit Hours: 4, Enr: 8, Percent of Course: 100.0%
Spring 1995	Preceptorship in PMEH, 63:203, Credit Hours: 3, Enr: 6, Percent of Course: 100.0%
Spring 1995	Thesis, 63:300, Credit Hours: 4, Enr: 1, Percent of Course: 100.0%
Fall 1995	Research in PMEH, 63:201, Credit Hours: 1, Enr: 2, Percent of Course: 100.0%
Fall 1995	Survival Analysis, 63:261, Credit Hours: 3, Enr: 11, Percent of Course: 100.0%
Spring 1996	Des and Analysis of Exp in the Bio Sciences, 63:162, Credit Hours: 3, Enr: 28, Percent of Course: 100.0%
Spring 1996	Preceptorship in PMEH, 63:203, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Fall 1996	Thesis, 63:300, Credit Hours: 2, Enr: 2, Percent of Course: 100.0%
Fall 1996	Biostatistical Methods I, 63:176, Credit Hours: 4, Enr: 16, Percent of Course: 100.0%
Fall 1996	Independent Study and Research, 63:172, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Spring 1997	Biostatistical Methods II, 63:276, Credit Hours: 4, Enr: 8, Percent of Course: 100.0%
Fall 1997	Survival Analysis, 63:261, Credit Hours: 3, Enr: 5, Percent of Course: 100.0%
Fall 1997	Thesis, 63:300, Credit Hours: 9, Enr: 3, Percent of Course: 100.0%
Spring 1998	Preceptorship in PMEH, 63:203, Credit Hours: 3, Enr: 3, Percent of Course: 100.0%
Spring 1998	Thesis, 63:300, Credit Hours: 6, Enr: 1, Percent of Course: 100.0%
Spring 1998	Des and Analysis of Exp in the Bio Sciences, 63:162, Credit Hours: 3, Enr: 33, Percent of Course: 100.0%
Fall 1998	Biostatistical Methods I, 63:176, Credit Hours: 4, Enr: 11, Percent of Course: 100.0%
Spring 1999	Biostatistical Methods II, 63:276, Credit Hours: 4, Enr: 9, Percent of Course: 100.0%
Spring 1999	Preceptorship in PMEH, 63:203, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Fall 1999	Survival Analysis, 63:261, Credit Hours: 3, Enr: 13, Percent of Course: 100.0%
Spring 2000	Des and Analysis of Exp in the Bio Sciences, 63:162, Credit Hours: 3, Enr: 28, Percent of Course: 100.0%
Spring 2000	Independent Study, 171:281, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Fall 2000	Preceptorship in PMEH, 63:203, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Fall 2001	Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 13, Percent of Course: 100.0%
Spring 2002	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Spring 2002	Design and Analysis of Biomedical Studies, 171:162, Credit Hours: 3, Enr: 39, Percent of Course: 100.0%
Fall 2002	Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 16, Percent of Course: 100.0%
Spring 2003	Biostatistics Methods II, 171:202, Credit Hours: 4, Enr: 15, Percent of Course: 100.0%
Spring 2003	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 4, Percent of Course: 100.0%
Summer 2003	Introduction to Biostatistics, 171:161, Credit Hours: 3, Enr: 26, Percent of Course: 100.0%

Fall 2003	Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 18, Percent of Course: 100.0%
Spring 2004	Advanced Biostatistics, 171:290, Credit Hours: 1, Enr: 4, Percent of Course: 100.0%
Spring 2004	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Summer 2004	Introduction to Biostatistics, 171:161, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Fall 2004	Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 15, Percent of Course: 25.0%
Spring 2005	Biostatistical Methods I, 171:202, Credit Hours: 4, Enr: 20, Percent of Course: 100.0%
Spring 2005	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Summer 2005	Introduction to Biostatistics, 171:161, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Spring 2006	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Fall 2006	Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 15, Percent of Course: 100.0%
Spring 2007	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Fall 2007	Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 12, Percent of Course: 100.0%
Fall 2007	Independent Study in Biostatistics, 171:281, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Fall 2007	Preceptorship in Biostatistics, 171:280, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Spring 2008	Advanced Biostatistics Seminar, 171:290, Credit Hours: 1, Enr: 5, Percent of Course: 50.0%
Spring 2008	Independent Study in Biostatistics, 171:281, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Summer 2008	Introduction to Biostatistics, 171:161, Credit Hours: 3, Enr: 14, Percent of Course: 100.0%
Fall 2008	Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 12, Percent of Course: 100.0%
Fall 2008	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Spring 2009	Adv Biostat Seminar (Stat in Microbiology), 171:290, Enr: 7, Percent of Course: 50.0%
Spring 2009	Research in Biostatistics, 171:295, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Fall 2009	Biostatistical Methods I, 171:201, Credit Hours: 4, Enr: 9, Percent of Course: 100.0%
Fall 2009	Independent Study in Biostatistics, 171:281, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Fall 2009	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Spring 2010	Adv Biostat Seminar (Stat in Microbiology), 171:290, Enr: 8, Percent of Course: 50.0%
Spring 2010	Independent Study, 171:281, Credit Hours: 3, Enr: 1, Percent of Course: 100.0%
Fall 2010	Advanced Biostatistics Seminar, 171:290:002, Credit Hours: 1, Enr: 9

Fall 2010	Introduction to Biostatistics, 171:161, Credit Hours: 3, Enr: 86, Percent of Course: 100.0%
Fall 2010	Principles of Scholarly Integrity, 650:270, Credit Hours: 1, Enr: 177, Percent of Course: 2.0%
Fall 2010	Thesis/Dissertation, 171:300, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Spring 2011	Adv Biostat Seminar (Stat in Microbiology), 171:290, Credit Hours: 1, Enr: 8, Percent of Course: 25.0%
Summer 2011	Introduction to Biostatistics, 171:161, Credit Hours: 3, Enr: 38, Percent of Course: 100.0%
Fall 2011	Preceptorship in Biostatistics, 171:280, Credit Hours: 3, Enr: 3, Percent of Course: 100.0%
Fall 2011	Principles of Scholarly Integrity, 650:270, Credit Hours: 1, Enr: 77, Percent of Course: 5.0%
Fall 2011	Thesis/Dissertation, 171:300, Credit Hours: 5, Enr: 2, Percent of Course: 100.0%
Spring 2012	Thesis/Dissertation, 171:300, Credit Hours: 2, Enr: 2, Percent of Course: 100.0%
Summer 2012	Introduction to Biostatistics, 171:161, Credit Hours: 3, Enr: 18, Percent of Course: 50.0%
Fall 2012	Introduction to Biostatistics, 171:161:EXW, Credit Hours: 3, Enr: 35, Percent of Course: 50.0%
Fall 2012	Thesis/Dissertation, 171:300, Credit Hours: 2, Enr: 2, Percent of Course: 100.0%
Fall 2012	Introduction to Biostatistics, 171:161:AAA, Credit Hours: 3, Enr: 94, Percent of Course: 100.0%
Spring 2013	Biostatistical Methods II, 171:202, Credit Hours: 4, Enr: 14, Percent of Course: 100.0%
Spring 2013	Thesis/Dissertation, 171:300, Credit Hours: 2, Enr: 2, Percent of Course: 100.0%
Fall 2013	Introduction to Biostatistics, 171:161, Credit Hours: 3, Enr: 90, Percent of Course: 100.0%
Fall 2013	Thesis/Dissertation, 171:300, Credit Hours: 2, Enr: 1, Percent of Course: 100.0%
Spring 2014	Scholarly Integrity in Biostatistics, 171:285, Credit Hours: 1, Enr: 31, Percent of Course: 100.0%
Spring 2015	Biostatistical Methods II, BIOS:5720:0AAA, Credit Hours: 4, Enr: 7, Percent of Course: 100.0%
Spring 2015	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 6, Percent of Course: 100.0%
Spring 2016	Design & Analysis of Biomedical Studies, BIOS:5120:0001, Credit Hours: 3, Enr: 33, Percent of Course: 100.0%
Spring 2016	Schol Integrity Biostatistics Postdocs, BIOS:7604:0001, Enr: 3, Percent of Course: 100.0%
Spring 2016	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 13, Percent of Course: 100.0%
Spring 2016	Thesis/Dissertation, BIOS:7900:0042, Credit Hours: 9, Enr: 1, Percent of Course: 100.0%

Fall 2016	Thesis/Dissertation, BIOS:7900:2969, Credit Hours: 9, Enr: 1, Percent of Course: 100.0%
Spring 2017	Regression & ANOVA in Health Sciences, BIOS:5120:0001, Credit Hours: 3, Enr: 39, Percent of Course: 100.0%
Spring 2017	Schol Integrity Biostatistics Postdocs, BIOS:7604:0001, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Spring 2017	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 15, Percent of Course: 100.0%
Spring 2017	Thesis/Dissertation, BIOS:7900:5219, Credit Hours: 1, Enr: 1, Percent of Course: 100.0%
Fall 2017	Introduction to Public Health Methods, CPH:2600:0001, Credit Hours: 3, Enr: 38, Percent of Course: 50.0%
Fall 2017	Preceptorship in Biostatistics, BIOS:7500:6285, Credit Hours: 3, Enr: 2, Percent of Course: 100.0%
Spring 2018	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 14, Percent of Course: 100.0%
Fall 2018	Introduction to Public Health Methods, CPH:2600:0AAA, Credit Hours: 3, Enr: 70, Percent of Course: 50.0%
Fall 2018	Introduction to Public Health Methods, CPH:2600:0002, Credit Hours: 3, Enr: 25, Percent of Course: 100.0%
Fall 2018	Introduction to Public Health Methods, CPH:2600:0003, Credit Hours: 3, Enr: 25, Percent of Course: 100.0%
Fall 2018	Introduction to Public Health Methods, CPH:2600:0004, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Spring 2019	International Perspectives: Xicotepec, ABRD:3352:0001, Credit Hours: 1, Enr: 12, Percent of Course: 50.0%
Spring 2019	International Perspectives: Xicotepec, CPH:4755:0001, Credit Hours: 2, Enr: 8, Percent of Course: 100.0%
Spring 2019	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 14, Percent of Course: 100.0%
Fall 2019	Introduction to Public Health Methods, CPH:2600:0A01, Credit Hours: 3, Enr: 21, Percent of Course: 100.0%
Fall 2019	Introduction to Public Health Methods, CPH:2600:0A02, Credit Hours: 3, Enr: 18
Fall 2019	Introduction to Public Health Methods, CPH:2600:0A03, Credit Hours: 3, Enr: 20
Fall 2019	Introduction to Public Health Methods, CPH:2600:0A04, Credit Hours: 3, Enr: 15
Fall 2019	Introduction to Public Health Methods, CPH:2600:0AAA, Enr: 74, Percent of Course: 100.0%
Spring 2020	International Perspectives: Xicotepec, ABRD:3352:0001, Credit Hours: 1, Enr: 10, Percent of Course: 100.0%
Spring 2020	International Perspectives: Xicotepec, CPH:4755:0001, Credit Hours: 2, Enr: 10, Percent of Course: 100.0%
Spring 2020	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 11, Percent of Course: 100.0%

Spring 2020	Thesis/Dissertation, BIOS:7900:7395, Enr: 1, Percent of Course: 100.0%
Fall 2020	Introduction to Public Health Methods, CPH:2600:0A01, Credit Hours: 3, Enr: 25, Percent of Course: 100.0%
Fall 2020	Introduction to Public Health Methods, CPH:2600:0A02, Credit Hours: 3, Enr: 17
Fall 2020	Introduction to Public Health Methods, CPH:2600:0A03, Credit Hours: 3, Enr: 22
Fall 2020	Introduction to Public Health Methods, CPH:2600:0A04, Credit Hours: 3, Enr: 18
Fall 2020	Introduction to Public Health Methods, CPH:2600:0AAA, Enr: 82, Percent of Course: 100.0%
Spring 2021	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 17, Percent of Course: 100.0%
Fall 2021	Introduction to Public Health Methods, CPH:2600:0A01, Credit Hours: 3, Enr: 18, Percent of Course: 100.0%
Fall 2021	Introduction to Public Health Methods, CPH:2600:0A03, Credit Hours: 3, Enr: 14
Fall 2021	Introduction to Public Health Methods, CPH:2600:0A04, Credit Hours: 3, Enr: 9
Fall 2021	Introduction to Public Health Methods, CPH:2600:0AAA, Enr: 41, Percent of Course: 100.0%
Spring 2022	Regression & ANOVA in Health Sciences, BIOS:5120:0001, Credit Hours: 3, Enr: 46, Percent of Course: 100.0%
Spring 2022	Regression & ANOVA in Health Sciences, BIOS:5120:0EXW, Credit Hours: 3, Enr: 10, Percent of Course: 100.0%
Spring 2022	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 12, Percent of Course: 100.0%
Spring 2023	Regression & ANOVA in Health Sciences, BIOS:5120:0001, Credit Hours: 3, Enr: 80, Percent of Course: 100.0%
Spring 2023	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 14, Percent of Course: 100.0%
Fall 2023	Introduction to Public Health Methods, CPH:2600:0A03, Credit Hours: 3, Enr: 22; Percent of Course: 100.0%
Fall 2023	Introduction to Public Health Methods, CPH:2600:0AAA, Enr: 47, Percent of Course: 100.0%
Fall 2023	Introduction to Public Health Methods, CPH:2600:0A04, Credit Hours: 3, Enr: 15; Percent of Course: 100.0%
Spring 2024	Regression & ANOVA in Health Sciences, BIOS:5120:0001, Credit Hours: 3, Enr: 72, Percent of Course: 100.0%
Spring 2024	Scholarly Integrity in Biostatistics, BIOS:7270:0001, Credit Hours: 1, Enr: 13, Percent of Course: 100.0%
Fall 2024 - Present	Introduction to Public Health Methods, CPH:2600:0A03, Credit Hours: 3, Enr: 48, Percent of Course: 100.0%

## Mentoring and Student Supervision

### Thesis/Dissertation Committee

Spring 1993	Cindy Hanawalt, Preventive Medicine & Environmental Health, MS (Chair)
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Spring 1993	Day-Yu Chao, Preventive Medicine & Environmental Health (Occupational & Environmental Health), MS (Member)
Spring 1993	Alex Juchems, Preventive Medicine & Environmental Health (Occupational & Environmental Health), MS (Member)
Fall 1993	Vickie Shavers-Hornaday, Preventive Medicine & Environmental Health (Epidemiology), MS (Member)
Fall 1993	Barb Quaney, Exercise Science, MS (Member)
Summer 1994	Eleanor Figuerres, Preventive Medicine & Environmental Health, MS (Member)
Summer 1994	Cindy Hanawalt, Preventive Medicine & Environmental Health (Interdisciplinary), PhD (Member)
Summer 1994	Chi Kao, Preventive Medicine & Environmental Health (Biostatistics), PhD (Member)
Summer 1994	Hani Samawi, Preventive Medicine & Environmental Health (Biostatistics), PhD (Member)
Fall 1994	Edward Barakatt, Exercise Science, MS (Member)
Fall 1994	Marlena Hammonds-Ehlers, Preventive Medicine & Environmental Health, MS (Member)
Summer 1995	Peter Yang, Preventive Medicine & Environmental Health (Biostatistics), PhD (Chair)
Fall 1995	Maragret Alston, Anatomy (Interdisciplinary Program), PhD (Member)
Fall 1995	Judith C Ruskin, Preventive Medicine & Environmental Health (Occupational & Environmental Health), MS (Member)
Spring 1996	Shawn Flanagan, Exercise Science, PhD (Member)
Fall 1996	Craig Taylor, Preventive Medicine & Environmental Health (Occupational & Environmental Health), MS (Member)
Spring 1997	Seung-Ho Han, Biostatistics, PhD (Chair)
Spring 1997	Michelle Combs, Preventive Medicine & Environmental Health (Biostatistics), PhD (Member)
Spring 1998	Sandra Bergquist, Nursing, PhD (Member)
Fall 1999	Colin West, Preventive Medicine & Environmental Health (Biostatistics), PhD (Chair)
Spring 2000	Shinobu Watanabe-Galloway, Epidemiology, PhD (Member)
Spring 2000	David W Young, Education (Marital & Family Therapy), PhD (Member)
Summer 2000	Elizabeth Ludington, Biostatistics, PhD (Member)
Spring 2003	Wenquan Wang, Biostatistics, PhD (Member)
Spring 2005	Xinqun Yang, Biostatistics, PhD (Member)
Summer 2005	Xianjin Xie, Biostatistics, PhD (Member)
Spring 2006	Joung Ae Lee, Occupational & Environmental Health, PhD (Member)
Fall 2007	Qian Shi, Biostatistics, PhD (Member)
Fall 2007	Qian Wang, Geography, PhD (Member)
Fall 2009	JonDavid Sparks, Biostatistics, PhD (Member)
Fall 2010	Sonali Patel, Epidemiology, PhD (Member)



Spring 2011	Erin Moritz-Korolev, Epidemiology, PhD (Member)
2013	Elizabeth Dastrup, Biostatistics, PhD (Chair)
2013	Amy Johnson, Biostatistics, PhD (Chair)
2013	Ana Capuano, Occupational Epidemiology, PhD (Co-Chair)
2013	Blake Hanson, Epidemiology, PhD (Member)
2013	Jennifer McDanel, Epidemiology, PhD (Member)
2017	Janel Barnes, Biostatistics, PhD (Chair)

### Mentor

2004	Ergun Uc, Neurology Faculty Member
2004 - 2007	Hyonggin An, Biostatistics Faculty Member
2007	Joanna Kao, High School Student
2005 - 2008	Natalie Denburg, Neurology Faculty Member
2006 - 2009	Beng-Coon Ho, Neurology Faculty Member
2009	Laura Vonnahme, MPH
2014 - 2017	Amy Conrad, Pediatrics Faculty Member
2017	Danielle Medgyesi, MS
2015 - 2018	Lyndsay Harshman, Pediatrics Faculty Member
2019 - 2022	Christina Cifra, Pediatrics Faculty Member

## Scholarship/Professional Productivity

### Publications or creative works

#### Peer-reviewed papers and journal articles

1. Dawson, J. D. & Lagakos, S. W. (1991). Analyzing laboratory marker changes in AIDS clinical trials. (Vols. 4). pp. 667-76. Journal of AIDS. [PMID: 2051307.](#)
2. Dawson, J. D. & Lagakos, S. W. (1993). Size and power of two-sample tests of repeated measures data. (Vols. 49). pp. 1022-32. Biometrics. [PMCID: 7906957.](#)
3. Dawson, J. D. (1994). Stratification of summary statistic tests according to missing data patterns. (Vols. 13). pp. 1853-1863. Statistics in Medicine. [PMID: 7997718.](#)
4. Dawson, J. D. (1994). Comparing treatment groups on the basis of slopes, areas-under-the-curve, and other summary measures. (Vols. 28). pp. 723-732. Drug Information Journal.
5. Ely, J. W., Rijhsinghani, A., Bowdler, N. C. & Dawson, J. D. (1995). The association between manual removal of the placenta and post-partum endometritis following vaginal delivery. (Vols. 86). pp. 1002-6. Obstetrics and Gynecology. [PMID: 7501321.](#)
6. Ely, J. W., Dawson, J. D., Townsend, A. S., Rijhsinghani, A. & Bowdler, N. C. (1996). Benign fever following vaginal delivery. (Vols. 43). pp. 146-51. Journal of Family Practice. [PMID: 8708624.](#)
7. Edmond, M. B., Ober, J. F., Dawson, J. D., Weinbaum, D. L. & Wenzel, R. P. (1996). Vancomycin-resistant enterococcal bacteremia: natural history, attributable morbidity and mortality. (Vols. 23). pp. 1234-39. Clinical Infectious Diseases. [PMID: 8953064.](#)

8. Barakatt, E., Smidt, G. L., Dawson, J. D., Wei, S. H. & Heiss, D. (1996). Interinnominate motion and symmetry: comparison between gymnasts and nongymnasts. (Vols. 23). pp. 309-319. *Journal of Orthopaedic and Sports Physical Therapy*. [PMID: 8728529](#).
9. Ely, J. W., Howser, D. M., Dawson, J. D., Bowdler, N. C. & Rijhsinghani, A. (1996). Practice patterns during the third stage of labor: the effect of physician age and specialty. (Vols. 43). pp. 545-49. *Journal of Family Practice*. [PMCID: 8969701](#).
10. Van Voorhis, B. K., Dawson, J. D., Stovall, D. W., Sparks, A. E. & Syrop, C. H. (1996). The effects of smoking on ovarian function and fertility during assisted reproduction cycles. (Vols. 88). pp. 785-91. *Obstetrics and Gynecology*. [PMID: 8885914](#).
11. Ely, J. W., Dawson, J. D., Mehr, D. R. & Burns, T. B. (1996). Understanding logistic regression analysis through example. (Vols. 28). pp. 134-40. *Family Medicine*. [PMCID: 8932495](#).
12. Nygaard, I. E., Rao, S. S. & Dawson, J. D. (1997). Anal incontinence after anal sphincter disruption: a 30-year retrospective cohort study. (Vols. 89). pp. 896-901. *Obstetrics and Gynecology*.
13. Souza, I. E., Gregg, A., Pfab, D., Dawson, J. D., Benson, P., O'Neill, M. E., Murph, J. R. & Bale, J. F. (1997). Cytomegalovirus infection in newborns and family members: polymerase chain reaction analysis of isolates. (Vols. 25). pp. 144-9. *Infection*. [PMID: 9181380](#).
14. Bergus, G., Levy, B., Randall, C., Dawson, J. & Jogerst, C. (1997). Skills that community practicing Iowa family physicians desire in a new physician partner. (Vols. 29). pp. 618-24. *Family Medicine*. [PMID: 9354867](#).
15. Sood, A. K., Buller, R. E., Burger, R. A., Dawson, J. D., Sorosky, J. I. & Berman, M. (1997). Value of preoperative CA 125 level in the management of uterine cancer and prediction of clinical outcome. (Vols. 90). pp. 441-7. *Obstetrics and Gynecology*. [PMID: 9277659](#).
16. Rizzo, M., Reinach, S., McGehee, D. & Dawson, J. D. (1997). Simulated car crashes in drivers with Alzheimer's Disease. (Vols. 54). pp. 545-51. *Archives of Neurology*.
17. Ely, J. W., Dawson, J. D., Lemke, J. H. & Rosenberg, J. (1997). An introduction to time-trend analysis. (Vols. 18). pp. 267-74. *Infection Control and Hospital Epidemiology*. [PMID: 9131373](#).
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## Books

1. Davis, P. H. & Dawson, J. D. (2006). Relationship between cardiovascular risk factors and coronary artery intimal-medial thickness. In Daniels, S., Burns, T. & Lauer, R. (Eds.) *Pediatric Prevention of Atherosclerotic Cardiovascular Disease*. New York, NY: Oxford University Press.
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3. Dawson, J. D. (2010). Statistical considerations. In Lee, J., Caird, J., Rizzo, M. & Fisher, D. (Eds.) *Handbook of Driving Simulation for Engineering, Medicine, and Psychology*. Boca Raton, FL: CRC Press.
4. Tippin, J., Aksan, N., Dawson, J. D. & Rizzo, M. (2012). Neuroergonomics of sleep and alertness. In Johnson, A. & Proctor, R. (Eds.) *Neuroergonomics*. pp. 110-127.
5. Aksan, N., Dawson, J. D., Anderson, S. A., Uc, E. Y. & Rizzo, M. (2012). Differential and unique roles of off-road assessments to on-road safety. In Stanton, N. (Eds.) *Advances in Human Aspects of Road and Rail Transportation*. pp. 404-411. CRC Press.
6. Dawson, J. D. & Zamba, G. K. (2021). Establishing and maintaining inclusive pipelines. In Golbeck, A. (Eds.) *Leadership and Diversity in Statistics and Data Science: Planning for Inclusive Excellence*. New York: Springer.  
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## Abstracts

1. Uc, E. Y., Rizzo, M., Shi, Q., Anderson, S. W., Rodnitzky, R. L. & Dawson, J. D. (2004). Driver landmark identification and safety errors in mild-moderate Parkinson's disease. (Vols. 19). (9), pp. S193-94. *Movement Disorders*.
2. Uc, E., Rizzo, M., Shi, Q., Anderson, S. W., Rodnitzky, R. L. & Dawson, J. D. (2004). Route-following and safety errors in drivers with Parkinson's disease. (Vols. 62). (7), pp. Supplement 5:A523. *Neurology*.
3. Davis, P. H., Dawson, J. D. & Sonka, M. (2005). Aortic intimal-medial thickness is associated with body mass index and systolic blood pressure in normal adolescents. (Vols. 112). pp. II-765. *Circulation*.
4. Milchak, J. L., Carter, B. L., James, P. A., Dawson, J. D., Bakris, G. L., Black, H. R. & Jones, D. W. (2005). Physician adherence to JNC 7 guidelines and blood pressure control. (Vols. 18). (5), pp. Suppl 1 A190. *American Journal of Hypertension*.
5. Davis, P. H. & Dawson, J. D. (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. (Vols. 36). pp. 502. *Stroke*.

6. Dawson, J. D. & Davis, P. H. (2006). Carotid intimal-medial thickness in the offspring of the Muscatine cohort: analysis of risk factors and familial correlation. (Vols. 113). pp. E361. *Circulation*.
7. Dawson, J. D., Sonka, M., Blecha, M. B. & Davis, P. H. (2007). Aortic and carotid intimal-medial thickness in adolescents and young adults: the Muscatine offspring study. (Vols. 115). pp. E287-E288. *Circulation*.

### Reviews

1. Dawson, J. D. (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, J. D. (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.

### Non-peer-reviewed journal articles

1. Dawson, J. D. (1996). The power of measuring the association between genotypes and continuous variables in subsamples of available specimens. pp. , 246-9. ASA 1996 Proceedings of the Section on Statistical Education.
2. Dawson, J. D. & Hilton, S. C. (1997). Multivariable approaches for analyzing bounded data. ASA 2001 Proceedings of the Biometrics Section.
3. Han, S. H. & Dawson, J. D. (1997). Regression to the mean and Lord's Paradox in observational studies. pp. , 110-13. ASA 1997 Proceedings of the Epidemiology Section.
4. Dawson, J. D., Davis, P. H. & Lauer, R. M. (1999). Using area-under-the-curve calculations to describe the cumulative load of risk factors. pp. , 64-67. ASA 1999 Proceedings of the Section on Statistics in Epidemiology.
5. Flanagan, J. R., Doebbeling, B. N., Dawson, J. & Beekmann, S. (1999). Randomized study of online vaccine reminders in adult primary care. pp. , 755-759. Proceedings of American Medical Informatics Association Symposium.
6. Rizzo, M., Raby, M., McGehee, D. V., Dawson, J., Anderson, S. W., 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, J. D., Anderson, S. W. & Vecera, S. P. (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, J. D., O'Shea, A. M. & 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)*.

### Other Publications

1. 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. (597), pp. 242-250. Proceedings of the 8th International Conference on Applied Human Factors and Economics. [DOI: 10.1007/978-3-319-60441-1\\_24](https://doi.org/10.1007/978-3-319-60441-1_24).

### **Research Interests/Current Projects**

- Colon cancer screening
- Exercise studies
- Metrics for Access, Opportunity, and Diversity (AOD)
- Studies of healthy, impaired, and elderly drivers
- Time-series models for driving data
- International educational training in biostatistics

## Grants and Contracts

### Active (Funded)

1. Monitoring real-world driver behavior for classification and early prediction of Alzheimer's disease; University of Nebraska Medical Center, National Institutes of Health; Dawson, Jeffrey (Principal Investigator)
  - 34-5250-2026-015
  - Jun 1, 2020 - Feb 28, 2025
  - Amount: \$195,551.00, 8% effort
2. Brain anatomical imaging and neurocognition in pediatric kidney disease (BRIAN KID); National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Harshman, Lyndsay (Principal Investigator)
  - R01 DK128835
  - May 1, 2021 - Feb 28, 2026
  - Amount: \$1,515,674.00, 2% effort
3. Linear predictive coding of EEG Activity for Diagnosis of Parkinson's Disease (LEAD-PD); National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Uc, Ergun (Principal Investigator)
  - R01 NS127809
  - Jun 1, 2023 - May 31, 2026
  - Amount: \$2,502,308.00, 10% effort
4. (Iowa ISIB), Summer Institute for Research Education in Biostatistics and Data Science; National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Zamba, Gideon (Principal Investigator)
  - R25 HL161716
  - Mar 1, 2022 - Feb 28, 2027
  - Amount: \$1,280,640.00, 2% effort
5. Speech Development and Brain Structure/Function in Infants with Isolated Oral Clefts: Relationship Exposure and Oxygenation; National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Conrad, Amy (Principal Investigator)
  - R01 DE033657
  - Jul 1, 2024 - Jun 30, 2028
  - Amount: \$537,163.00, 4% effort

### Completed

1. Process Improvement Grant – Outcomes of Computer-Generated Reminders to Immunize Adults According to National Guidelines; College of Medicine; Dawson, J (Consultant), Doebbeling (Principal Investigator)
  - 1996 - 1997
  - 2% effort
2. Data Management Center for a Placebo Controlled Study of Acetyl-L-Carnitine in Patients with Alzheimer's Disease; Sigma-Tau; Dawson, J (Consultant), Woolson (Principal Investigator)
  - 1990 - 1998
  - 10% effort
3. National Mycology Epidemiology Survey (Biostatistics Core); Pfizer; Dawson, J (Principal Investigator)
  - 1993 - 1998
  - Amount: \$50,000.00, 20% effort
4. Cancer Center ACS Seed Grant: Prospective Follow-up Assessment of Cervical HPV Detection; University of Iowa Hospitals and Clinics; Dawson, J (Investigator), Levy (Principal Investigator)

- 1997 - 1998
  - 5% effort
5. Epidemiology of Carotid Artery Atherosclerosis in Youth; National Institutes of Health; Dawson, J (Investigator), Lauer (Principal Investigator)
    - 1995 - 2000
    - Amount: \$387,658.00, 15% effort
  6. Occupational Risk of Cytomegalovirus Infection; NICHD; Dawson, J (Investigator), Murph (Principal Investigator)
    - 1995 - 2000
    - Amount: \$184,461.00, 5% effort
  7. Iowa Injury Prevention Research Center - Preliminary Studies of Crash Avoidance Behavior in Drivers with Traumatic Brain Injury; Centers for Disease Control; Dawson, J (Statistician), Rizzo (Principal Investigator)
    - 1996 - 2001
    - Amount: \$54,753.00, 2% effort
  8. Improving the Research Infrastructure of Family Medicine and General Internal Medicine; National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Johnson, Cynda (Principal Investigator)
    - Sep 1, 2000 - Aug 21, 2003
    - Amount: \$100,000.00, 5% effort
  9. Predicting Driver Safety in Parkinson's Disease: A Pilot Study; New Investigator Research Award, College of Public Health-College of Medicine, University of Iowa; Dawson, Jeffrey (Supporting), Uc, Ergun (Principal Investigator)
    - Jan 1, 2003 - Dec 31, 2003
    - Amount: \$10,000.00
  10. Arterial Endothelial Function: An Epidemiologic Study; NHLBI; Dawson, J (Investigator), Lauer, Ronald (Principal Investigator)
    - 1998 - 2004
    - Amount: \$431,605.00, 10% effort
  11. Safe and Unsafe Driving in Old Age, Alzheimer's Disease and Stroke; NIA; Dawson, J (Investigator), Rizzo, Matthew (Principal Investigator)
    - Jan 1999 - Jan 2004
    - Amount: \$282,763.00, 10% effort
  12. Epidemiology of Carotid Artery Atherosclerosis in Youth—II; National Institutes of Health; Dawson, J (Investigator), Lauer, Ronald (Principal Investigator)
    - 2000 - 2004
    - Amount: \$420,124.00, 10% effort
  13. Driver Impairment, Self-Awareness, and Crash Risk in Obstructive Sleep Apnea; IPRC; Dawson, Jeffrey D. (Collaborator), Rizzo, Matthew (Principal Investigator)
    - Sep 1, 2002 - Aug 31, 2004
    - Amount: \$79,203.00, 5% effort
  14. Colorectal Cancer Screening Among Patients Attending Rural Family Physicians' Practices; Dawson, Jeffrey (Co-Investigator), Levy, Barcey (Principal Investigator)
    - Sep 9, 2003 - Aug 31, 2005
    - Amount: \$100,000.00, 5% effort



15. Collaborative Management of Hypertension; National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Carter, Barry (Principal Investigator)
  - Jul 1, 2003 - Jun 30, 2006
  - Amount: \$417,527.00, 10% effort
16. Predicting Driver Safety in Parkinson's Disease; Dawson, Jeffrey D. (Co-Investigator), Uc, Ergun (Principal Investigator)
  - Sep 30, 2003 - Jun 30, 2008
  - Amount: \$231,250.00, 10% effort
17. The Rural Restaurant Healthy Options Program; National Institutes of Health; Dawson, Jeffrey D. (Co-Investigator), Nothwehr, Faryle (Principal Investigator)
  - R21 HL087761
  - Apr 1, 2007 - Mar 31, 2009
  - Amount: \$146,087.00, 5% effort
18. Amgen PhD Fellowship (Gift); Dawson, Jeffrey (Co-Director), Chaloner, Kathryn (Director)
  - Aug 14, 2006 - May 11, 2009
  - Amount: \$25,000.00
19. National Surveillance for Emerging Adenovirus Infections; Dawson, Jeffrey (Co-Investigator), Gray, Greg (Principal Investigator)
  - Jun 15, 2004 - May 31, 2009
  - Amount: \$462,419.00, 5% effort
20. Prefrontal Brain Structures, Aging, and Decision-Making; NIA; Dawson, Jeffrey (Supporting), Denburg, Natalie (Principal Investigator)
  - K01 (NIA)
  - Aug 1, 2004 - Jul 31, 2009
  - Amount: \$107,912.00
21. Epidemiology of Carotid Artery Atherosclerosis in Youth—III; Dawson, Jeffrey (Co-Investigator), Davis, Patricia (Principal Investigator)
  - Sep 15, 2004 - Dec 31, 2009
  - Amount: \$425,973.00, 10% effort
22. Arterial Endothelial Function – An Epidemiological Study; Dawson, Jeffrey (Co-Investigator), Burns, Trudy (Principal Investigator)
  - Jul 1, 2004 - May 31, 2010
  - Amount: \$509,367.00, 5% effort
23. Improving Adherence to Blood Pressure Guidelines; Dawson, Jeffrey (Co-Investigator), Carter, Barry (Principal Investigator)
  - Jul 1, 2003 - Jul 31, 2010
  - Amount: \$457,810.00, 10% effort
24. Neuroscience Studies on Early Detection of Schizophrenia; NIMH; Dawson, Jeffrey (Supporting), Ho, Beng-Choon (Principal Investigator)
  - K23 MH068380 (NIMH)
  - Sep 1, 2005 - Aug 31, 2010
  - Amount: \$159,884.00
25. In-Car Technology to Alert Attention-Impaired Drivers; Dawson, Jeffrey (Co-Investigator), Rizzo, Matthew (Principal Investigator)

- May 15, 2006 - Nov 30, 2010
  - Amount: \$395,926.00, 10% effort
26. Predictions of Driver Safety in Advancing Age; NIA; Dawson, J (Investigator), Rizzo, Matthew (Principal Investigator)
- R01 AG017177
  - Sep 1, 1999 - Jun 30, 2011
  - Amount: \$186,750.00, 10% effort
27. Statistics in Microbiology, Infectious Diseases & Bioinformatics; Dawson, Jeffrey (Co-Principal), Chaloner, Kathryn (Principal Investigator)
- T32 GM077973
  - Aug 1, 2006 - Jun 30, 2011
  - Amount: \$96,396.00
28. IPA: Effect of Aerobic Exercise in Parkinson's Disease (Biostatistical Subcontract); US Dept. of Veteran's Affairs, Iowa City VAMC; Uc, Ergun (Principal Investigator), Dawson, Jeffrey (Co-Principal)
- Jan 1, 2009 - Dec 31, 2011
  - Amount: \$32,600.00, 10% effort
29. Enhanced Continuity of Pharmacy Care for Cardiovascular or Pulmonary Diseases; National Institutes of Health; Dawson, Jeffrey D. (Co-Investigator), Carter, Barry (Principal Investigator)
- R01 HL082711
  - Jun 1, 2007 - Mar 31, 2013
  - Amount: \$475,758.00, 5% effort
30. Epidemiology of Rural MRSA: Is Livestock Contact a Risk Factor?; AHRQ; Dawson, Jeffrey D. (Statistician), Smith, Tara C. (Principal Investigator)
- R18 HS019966
  - Jul 1, 2012 - May 1, 2013
  - 7% effort
  - Methicillin-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.
31. Tensor Scale-Based Methods for Assessment of Trabecular Bone Quality; National Institutes of Health; Dawson, Jeffrey D. (Co-Investigator), Saha, Punam Kumar (Principal Investigator)
- R01 AR054439
  - Jun 18, 2009 - May 31, 2013
  - Amount: \$266,294.00, 5% effort
32. PAP Adherence and Real-World Driving Safety in OSA; National Institutes of Health; Dawson, Jeffrey D. (Co-Investigator), Rizzo, Matthew (Principal Investigator)
- R01 HL091917
  - Jun 1, 2010 - Mar 31, 2015
  - Amount: \$459,760.00, 10% effort
  - 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.

33. Mechanical Stress and Skeletal Plasticity after Spinal Cord Injury in Humans; National Institutes of Health; Dawson, Jeffrey, Shields, Richard (Principal Investigator)
- R01 HD062507
  - Jul 24, 2010 - May 31, 2015
  - Amount: \$193,622.00, 5% effort
  - 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.
34. Measuring Use and Impact of In-Vehicle Technologies on Older Driver Safety; Toyota Motor Engineering & Manufacturing of North America, Inc.; Dawson, Jeffrey D. (Statistician), Rizzo, Matthew (Principal Investigator)
- Jan 1, 2013 - Jun 30, 2015
  - Amount: \$1,287,505.00, 10% effort
  - 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.
35. Iowa Summer Institute in Biostatistics (ISIB); NIH; Dawson, Jeffrey D. (Co-Investigator), Chaloner, Kathryn M. (Principal Investigator)
- T15 HL097622
  - Aug 20, 2009 - Feb 28, 2016
  - Amount: \$217,159.00, 4% effort
  - 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.
36. Predicting Driving Safety in Advancing Age; NIH; Dawson, Jeffrey D. (Co-Investigator), Rizzo, Matthew (Principal Investigator)
- R01 AG017177
  - Jun 1, 2013 - May 31, 2018
  - Amount: \$392,101.00, 15% effort
  - 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.
37. Growth and Development of the Striatum in Huntington's Disease; National Institutes of Health; Dawson, Jeffrey D (Co-Investigator), Nopoulos, Peggy (Principal Investigator)
    - R01 MS055903
    - Mar 1, 2009 - Jul 31, 2018
    - 10% effort
  38. Improved Cardiovascular Risk Reduction to Enhance Rural Primary Care: I-CARE Trial; National Institutes of Health; Dawson, Jeffrey D. (Co-Investigator), Carter, Barry (Principal Investigator)
    - R01 HL116311
    - Aug 8, 2013 - Jul 31, 2018
    - Amount: \$525,329.00, 4% effort
    - 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.
  39. Iowa Summer Institute for Research Education in Biostatistics (ISIREB); National Institutes of Health; Dawson, Jeffrey D (Co-Investigator), Zamba, Gideon KD (Principal Investigator)
    - R25 HL131467
    - Feb 15, 2016 - Jan 31, 2019
    - Amount: \$233,111.00, 5% effort
    - 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.
  40. Musculoskeletal Plasticity after Spinal Cord Injury; National Institutes of Health; Dawson, Jeffrey D. (Co-Investigator), Shields, Richard (Principal Investigator)
    - R01 HD084645
    - May 15, 2015 - Jan 31, 2020
    - Amount: \$207,500.00, 2% effort
  41. Long Duration Activity and Metabolic Control after Spinal Cord Injury; National Institutes of Health; Dawson, Jeffrey D. (Co-Investigator), Shields, Richard (Principal Investigator)
    - R01 HD082109
    - Aug 1, 2015 - Apr 30, 2020
    - Amount: \$207,500.00, 2% effort
  42. Monitoring Real-World Driver Behavior for Classification and Early Prediction of Alzheimer's Disease; University of Nebraska Medical Center; Dawson, Jeffrey (Co-Investigator), Rizzo, Matthew (Principal Investigator)
    - No Contract #
    - Sep 1, 2020 - Aug 31, 2021
    - Amount: \$24,010.00, 9% effort

- 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.
43. Iowa Summer Institute for Research Education in Biostatistics (ISIREB); National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Zamba, Gideon (Principal Investigator)
- R25 HL147231
  - Mar 1, 2019 - Feb 28, 2022
  - Direct Cost: \$235,574.00, 1% effort
  - 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, & 2021.
44. Comparative Effectiveness of Fecal Immunochemical Tests with Optical Colonoscopy; National Institutes of Health; Dawson, Jeffrey D. (Co-Investigator), Levy, Barcy (Principal Investigator)
- R01 CA215034
  - Aug 1, 2017 - Jul 31, 2022
  - Amount: \$728,951.00, 5% effort
  - 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.
45. Dissemination of the Cardiovascular Risk Service (CVRS Live); National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Kennelty, Korey (Principal Investigator)
- R01 HL139918
  - Feb 1, 2018 - Jan 31, 2023
  - Direct Cost: \$478,215.00, 9% effort
  - 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.

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

- Jul 1, 2019 - Jun 30, 2023
- Direct Cost: \$25,000.00, 9% effort
- 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 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.

47. Brain Development and Pre-Speech Function in Infants with Isolated Oral Clefts: Relationship to Anesthesia Exposure and Oxygenation; National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Conrad, Amy (Principal Investigator)

- R56 DE030075
- Aug 1, 2022 - Jun 30, 2025
- Amount: \$510,462.00, 5% effort
- Dr. Dawson will serve as a Co-Investigator on this project. Dr. Dawson has provided support in the revision of the aims and statistical analysis plan for this grant and will oversee analysis in Year and 5 of the grant.

Project Summary: The purpose of this research grant application is to expand a pilot project evaluating the earliest markers of brain and pre-speech development in infants with isolated cleft of the lip and/or palate (iCL/P) – before their first exposure to anesthesia. Research has

documented a high incidence of specific learning disabilities (most notably language or reading deficits) among this population. These disabilities, while not in the range of Intellectual Dysfunction, do result in academic achievement problems and lower rates of college attendance. Recent work has also documented differences in brain structure and function among people with an isolated oral cleft that is correlated to measures of cognitive and academic functioning. These differences have been identified across child, adolescent, young adult, and adult samples. Current theories on the etiology of these structural and functional differences have proposed: 1) early exposure to anesthesia, 2) obstructed airway and resulting reduced oxygenation, and 3) abnormal neural migration as potential contributing factors. The PI conducted a pilot study, obtaining structural MRI scans and vocal recording in infants with (n = 4; 2 with successful MRI) and without (n = 4) isolated oral clefts at 2 months of age (prior to any exposure to anesthesia). Results demonstrated a trend of reduced volume of myelinated white matter and reduced vocal complexity (pre-speech marker of language development) in infants with iCL/P compared to unaffected controls. While preliminary, these findings suggest that differences in infants with iCL/P may be present shortly after birth and prior to exposure to anesthesia – supporting a stronger role of genetics and development in the progression of structural and functional differences identified later in life. The proposed study will expand the pilot by recruiting a larger sample from two sites, obtaining vocal and neuronal measures at three different time points (before and after surgery for those with iCL/P), utilizing both MRI and functional near-infrared spectroscopy (fNIRS) for neural measurement, and obtaining measures of oxygenation. Specific goals of the current project are to: 1) Assess the effects of cleft presence and sex (as well as their interaction) and oxygen level on brain structure/function and pre-speech/language measures at each time point; 2) Evaluate the relationship of early brain structure/function to later brain function and language outcomes; and 3) Assess the potential impact of exposure to anesthesia on developmental trajectories within groups (i.e., iCL, iCP, iCLP, and Unaffected). The results of this study will significantly contribute to the understanding of neuronal development in infants with iCL/P and the impact of exposure to anesthesia and reduced oxygenation have on this development.

48. Growth and Development of the Striatum in Huntington's Disease; National Institutes of Health; Dawson, Jeffrey (Co-Investigator), Nopoulos, Peggy (Principal Investigator)

- R01 NS055903
- Mar 1, 2009 - Aug 31, 2026
- Amount: \$26,854,995.00, 10% effort

## Presentations

### Invited Lectures

- |      |  |
|------|--|
| 1991 | Dawson, J. A Comparison of Summary Statistic Methods for Analyzing Repeated Measure Data in Comparative Clinical Trials. Presented at NIAID Workshop on Longitudinal Analysis of Marker Data.                    |
| 1993 | Dawson, J. D. Comparing Treatment Groups on the Basis of Slopes, Areas-Under-The-Curve, and Other Summary Measures. Presented at Drug Information Association Statistical Workshop, Hilton Head, South Carolina. |
| 1994 | Dawson, J. Comparing the Time-to-Threshold and Summary Statistics Methods for Analyzing Repeated Measures. Presented at Departmental Seminar Series, Department of Statistics, Iowa State University.            |
| 1994 | Dawson, J. Sample Size and Power of 2-Group Tests of Repeated Measures Data. Presented at Annual Meeting, Association of Schools of Public Health, Washington, D.C.  |

- 1994 Dawson, J. Two-Sample Comparisons of Repeated Measures Data: Size, Robustness, and Power. Presented at Harvard/Schering-Plough Clinical Trial Workshop, Boston, Massachusetts.
- 1994 Dawson, J. Comparing the Time-to-Threshold and Summary Statistic Methods for Analyzing Repeated Measures. Presented at Departmental Seminar Series, Department of Biostatistics, Johns Hopkins University, Baltimore, Maryland.
- 1996 Dawson, J. Comparing Treatment Groups on the Basis of Summary Measures. Presented at Merck & Co., Rahway, New Jersey.
- 1997 Dawson, J. Short Course in Biostatistics. Presented at SangStat, Ltd, Princeton, New Jersey.
- 1999 Dawson, J. D. Stratified Tests of Summary Measures: A Non-Interactive Approach for Incorporating Missing Data in Longitudinal Comparative Studies. Presented at Sixth Annual Biopharmaceutical Applied Statistics Symposium, Hilton Head, South Carolina.
- 2000 Dawson, J. D. Longitudinal Repeated Measures Data: Multivariate Representations Versus Random Effects Models. Presented at 25th Annual BYU Summer Institute of Applied Statistics, Provo, Utah.
- 2000 Dawson, J. Stratification Due to Missing Data in Longitudinal Studies. Presented at Utah Chapter of the American Statistical Association, Provo, Utah.
- 2001 Dawson, J. Common Statistical Errors and Pitfalls in Bioscience Research. Presented at BYU Statistics Department.
- 2001 Dawson, J. Winter Faculty Enrichment Series: Survival Analysis. Presented at BYU Statistics Department.
- 2006 Dawson, J. Common Statistical Errors in Clinical and Laboratory Research. Presented at Departments of Biology and Psychology, Drake University.
- 2008 Dawson, J. Using Simulators and Instrumented Vehicles to Study High-risk Drivers. Presented at Statistics Department, Brigham Young University.
- 2014 Dawson, J. D. Overview of Biostatistics. Presented at Short Course, L'Université Notre-Dame d'Haïti Medical School, Turgeau, Port-au-Prince, Haiti.
- 2014 Dawson, J. D. Proportional Hazards in Survival Analysis. Presented at Survival Analysis Class, Brigham Young Statistics Department, Provo, Utah.
- 2014 Dawson, J. D. Seven Deadly Sins of Statistical Research. Presented at Special Seminar, Brigham Young Statistics Department, Provo, Utah.
- 2014 Dawson, J. D. Teaching Statistical Ethics via Lectures, Group Discussions, and Peer Mentoring. Presented at Meeting of the Association of Clinical and Translational Statisticians, Association of Clinical and Translational Statisticians, Boston, Massachusetts.
- 2014 Dawson, J. D. Trends and Challenges in Research Involving Elderly and Impaired Drivers. Presented at Rush Alzheimer's Disease Core Research Center Seminar, Rush University Medical Center, Chicago, Illinois.
- 2015 Anecdotes/Issues in Ethics: Consulting, Research, and Teaching. Presented at 60th World Statistics Congress (ISI 2015), International Statistical Institute, Rio de Janeiro, Brazil.
- 2015 Dawson, J. Avoiding Accidents on the Big Data Highway: Lessons Learned from 20 Years of Driving Research. Presented at Grand Rounds, University of Nebraska College of Public Health, Omaha, Nebraska.



- 2015 Dawson, J. D. Overview of Biostatistics. Presented at Short Course, L'Université Notre-Dame d'Haïti Medical School, Turgeau, Port-au-Prince, Haiti.
- 2015 Dawson, J. Driving Studies in Healthy and Impaired Populations: Practical and Statistical Issues. Presented at Fall Meeting, ASA, Nebraska Chapter.
- 2016 Dawson, J. D. Overview of Biostatistics. Presented at Short Course, L'Université Notre-Dame d'Haïti Medical School, Turgeau, Port-au-Prince, Haiti.
- 2016 Dawson, J. D. Reproducible Research and Other Best Practices for Biostatisticians. Albert Einstein Medical Center, New York, New York.
- 2017 Dawson, J. D. Biostatistics: Statistics in Medicine and Public Health. Presented at Short Course, L'Université Notre-Dame d'Haïti Medical School, Turgeau, Port-au-Prince, Haiti.
- 2017 Dawson, J. D. Seven Deadly Sins of Statistical Collaboration. Memorial Sloan Kettering Cancer Institute, New York, New York.
- 2023 Dawson, J. D. Teaching Soft Skill as a Component of Training in Scholarly Integrity and Ethics. Presented at Joint Statistical Meetings, Toronto, Canada.
- 2023 Dawson, J. D. Discussion of Metrics and Statistical Analyses of JEDI-related Data. Presented at Joint Statistical Meetings, Toronto, Canada.
- Oct 2024 Dawson, J. D. Thinking Outside the Box Plot: Nontraditional Roles for Statisticians. Presented to BYU Statistics Department, Provo, UT.

#### Oral Presentations

- 1992 Dawson, J. D. Conditional and Unconditional Summary Statistic Tests of Repeated Measure Data. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Boston, Massachusetts.
- 1993 Dawson, J. D. Sample Size Calculations Based on Slopes and Other Summary Statistics. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS.
- 1995 Dawson, J. D. & Han, S. H. Comparing Likelihood-Based and Nonparametric Longitudinal Methods in the Presence of Informative and Noninformative Missing Data. Presented at ENAR Spring Meeting, International Biometric Society (ENAR), Birmingham, Alabama.
- 1995 Yang, H. P. & Dawson, J. D. Extending the Conditional Linear Model to General Random Effects. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Orlando, Florida.
- 1996 Dawson, J. Biostatistics Orientation. Presented at Department of Preventive Medicine and Environmental Health, Biostatistics Division, Carver College of Medicine, The University of Iowa.
- 1996 Dawson, J. D. The Power of Measuring the Association between Genotypes and Continuous Variables in Subsamples of Available Specimens. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Chicago, Illinois.
- 1997 Dawson, J. D. & Han, S. H. Regression to the Mean and Lord's Paradox in Observational Studies. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Anaheim, California.
- 1999 Dawson, J. D., Davis, P. H. & Lauer, R. M. Using Area-Under-the-Curve Calculations to Describe the Cumulative Load of Risk Factors. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Baltimore, Maryland.

- 2001 Dawson, J. D. & Hilton, S. C. Multivariable Approaches for Analyzing Bounded Data. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Atlanta, Georgia.
- 2004 Dawson, J. D. & Ely, J. W. The Effect of Observational Unit Size on Poisson Goodness-of-Fit Tests. Presented at ENAR Spring Meeting, International Biometric Society (ENAR), Pittsburgh, Pennsylvania.
- 2006 Dawson, J. D. & Davis, P. H. Carotid Intimal-Medial Thickness in the Offspring of the Muscatine Cohort: Analysis of Risk Factors P250 and Familial Correlation. Presented at 46th Annual Conference on CVD Epidemiology and Prevention, American Heart Association, Phoenix, Arizona.
- 2006 Dawson, J. D., Cavanaugh, J. E., Zamba, K. D. & Rizzo, M. Measuring Lateral Control in Driving Studies. Presented at Biometric Society (ENAR) Annual Meeting, Tampa, Florida.
- 2007 Dawson, J. Important Statistical Issues in Research. Presented at Department of Internal Medicine, Carver College of Medicine, The University of Iowa.
- 2009 Dawson, J. D., Dastrup, E., Uc, E. Y., Anderson, S. W. & Rizzo, M. Crashes, Moving Violations, and Driving Cessation in Early Alzheimer's Disease. Presented at Annual Meeting, American Academy of Neurology, Seattle, Washington.
- 2010 Liu, D. A., Uc, E., Dastrup, E., Porter, A., Dawson, J. D. & Rizzo, M. Joint Modeling of Correlated Recurrent and Terminal Events with Multivariate Frailty in the Analysis of Driving Safety Data in Old Drivers with Neurological Diseases. Presented at ENAR Spring Meeting, International Biometric Society (ENAR), New Orleans, Louisiana.
- 2010 Johnson, A. M. & Dawson, J. D. Modeling Time Series Data with Semi-Reflective Boundaries with Application of Lateral Control of Motor Vehicles. Presented at ENAR Spring Meeting, International Biometric Society (ENAR), New Orleans, Louisiana.
- 2010 Dawson, J. D., Dastrup, E., Johnson, A. M., Uc, E. Y. & Rizzo, M. Trends and Challenges in Research Involving Elderly and Impaired Drivers. Presented at International Biometric Society (ENAR) Annual Spring Meeting, New Orleans, Louisiana.
- 2010 Dawson, J. Trends and Challenges in Research Involving Elderly and Impaired Drivers. Presented at Topic Contributed Section, ENAR 2010, New Orleans, Louisiana.
- 2010 Dawson, J. D., Ardery, G., Carter, B. L. & Lesh, S. M. Nested and Block Designs in Multi-Clinic Intervention Studies. Presented at 3rd Annual NIH Conference on the Science of Dissemination and Implementation: Methods and Measurement, Washington, District of Columbia.
- 2011 Dawson, J. Analysis of High-Frequency Measures of Lateral Vehicular Control in Healthy and Impaired Populations. Presented at Fall Technical Conference of ASA's Section on Physical and Engineering Sciences, Kansas City, Missouri.
- 2011 Dawson, J. D., Johnson, A. M., Mills, E. D., Uc, E. Y. & Rizzo, M. Data Reduction of Electronic Measures in Driving Studies. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Miami Beach, Florida.
- 2011 Miles, E. D. Semicontinuous Model Misspecification: Zero-Inflated Log-Normal and Zero-Inflated Gamma Distributions. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Miami Beach, Florida.
- 2013 Johnson, A. M. & Dawson, J. D. Time Series Data with Semi-Reflective Boundaries: Single-Pass and Iterative Methods. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Montreal, Canada.

- 2014 Dawson, J. D. Modeling Driving Behavior Using Advanced Data Collection Methods. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Boston, Massachusetts.
- 2014 Dawson, J. D. Overview of Rehabilitation. Food for the Poor's Little Children of Jesus Orphanage Caregiver School, Santo, Ouest, Haiti.
- 2015 Dawson, J. Driving Studies in Healthy and Impaired Populations: Practical and Statistical Issues. Presented at WNAR Annual Meeting, International Biometric Society (WNAR), Boise, Idaho.
- 2017 Dawson, J. D. Nontechnical Errors in Statistical Collaborative Research. International Statistical Institute (ISI), Marrakech, Morocco.
- 2017 Dawson, J. D. Training Statistics Graduate Students in Ethics, Reproducible Research, and Other Best Practices. International Association for Statistical Education (IASE), Rabat, Morocco.
- 2019 Dawson, J. D., O'Shea, A. M. & Ghosh, J. Reducing High-Frequency Time Series Data in Driving Studies. International Association for Statistical Education (IASE), Kuala Lumpur, Malaysia.

## Posters

- 2005 Shi, Q., Stierman, L. M., Dawson, J. D. & Rizzo, M. Defining and Assessing Endpoints in Driving Simulator Tasks. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Minneapolis, Minnesota.
- 2006 Dawson, J. D., Cavanaugh, J. E., Zamba, K. D. & Rizzo, M. Measuring Lateral Control in Driving Studies. Presented at ENAR Spring Meeting, International Biometric Society (ENAR), Tampa, Florida.
- 2006 Dawson, J. D. & Davis, P. H. Carotid Intimal-Medial Thickness in the Offspring of the Muscatine Cohort: Analysis of Risk Factors P250 and Familial Correlation. Presented at AHA 46th Annual Conference on CVD Epidemiology, Phoenix, Arizona.
- 2006 Shi, Q., Stierman, L. M., Dawson, J. D. & Rizzo, M. Defining and Assessing Endpoint in Driving Simulator Tasks. Presented at University of Iowa Research Week, College of Public Health, College of Medicine, and VA Hospital.
- 2007 Dawson, J. D., Sonka, M., Blecha, M. B., Lin, W., Wang, Q. & Davis, P. H. Aortic and Carotid Intimal-Medial Thickness in Adolescents and Young Adults: the Muscatine Offspring Study. Presented at AHA 46th Annual Conference on CVD Epidemiology, Orlando, Florida.
- 2007 Dawson, J. D., Cosman, J. D., Lei, Y., Dastrup, E., Sparks, J. & Rizzo, M. Factors Affecting Vehicular Lateral Control Measures in Driving Simulators. Presented at ENAR Spring Meeting, International Biometric Society (ENAR), Atlanta, Georgia.
- 2007 Dawson, J. D., Cavanaugh, J. E., Zamba, K. D. & Rizzo, M. Modeling Lateral Position and Control in Driving Studies of Elderly Populations. Presented at Joint Statistical Meetings, ASA, ENAR, WNAR, IMS, Salt Lake City, Utah.
- 2008 Dawson, J. D., Lin, W. & Davis, P. H. Aortic and Carotid Intimal-Medial Thickness in Adolescents and Young Adults: Updated Results from the Muscatine Offspring Study. Presented at Hawaii International Conference on Statistics, Mathematics, and Related Fields, Honolulu, Hawaii.

- 2008 Dawson, J. D., Lin, W. & Davis, P. H. Assessment of Comparability, Reliability, and Predictability in Medical Studies. Presented at Hawaii International Conference on Statistics, Mathematics, and Related Fields, Honolulu, Hawaii.
- 2008 Dawson, J. D., Cavanaugh, J. E., Zamba, K. D. & Rizzo, M. Modeling The Variability Of Lateral Vehicular Control. Presented at 10th International Conference on Applications of Advanced Technologies in Transportation, Athens, Greece.
- 2009 Dawson, J. D., Dastrup, E., Uc, E. Y., Anderson, S. W. & Rizzo, M. Crashes, Moving Violations, and Driving Cessation in Early Alzheimer's Disease. Presented at Annual Meeting of the American Academy of Neurology, Seattle, Washington.
- 2009 Dawson, J. D., Anderson, S. W., Uc, E. Y., Dastrup, E. & Rizzo, M. Relationship Between Cognition and Driving Safety in Alzheimer's Disease. Presented at Annual Meeting of the American Neurological Association, Salt Lake City, Utah.
- 2013 Johnson, A. M. & Dawson, J. D. Self-Centering Time Series Data: Single-Pass & Iterative Methods. Presented at 10th International Conference on Health Policy Statistics, American Statistical Association, Chicago, Illinois.

### Demonstrations

- 1989 Computing Module (2 weeks/year, 35 hours/week). Presented at New MPH Student Orientation Sessions, Harvard School of Public Health.
- 1990 Computing Module (2 weeks/year, 35 hours/week). Presented at New MPH Student Orientation Sessions, Harvard School of Public Health.
- 2008 Dawson, J. Job Interview Skills for Biostatisticians. Presented at Biostatistics Student Organization, University of Iowa.
- 2009 Dawson, J. Overview of Rehabilitation and Range-of-Motion Exercises. Presented at Caregivers Class at Klinik Kay Kapab, Healing Hands for Haiti International Foundation Inc., Port-au-Prince, Haiti.
- 2011 Dawson, J. D. Childhood Development. Presented at Caregivers Class at New Life Orphanage, Healing Hands for Haiti International Foundation Inc., Port-au-Prince, Haiti.
- 2013 Dawson, J. D. Overview of Rehabilitation. Presented at Caregivers Class at Notre Maison Orphanage, Healing Hands for Haiti International Foundation Inc., Santo, Ouest, Haiti.
- 2014 Dawson, J. D. Overview of Rehabilitation. Presented at Caregivers Class at Food for the Poor Orphanage, Healing Hands for Haiti International Foundation Inc., Santo, Ouest, Haiti.
- 2015 Dawson, J. D. Overview of Rehabilitation. Presented at Caregivers Class at Notre Maison Orphanage, Healing Hands for Haiti International Foundation Inc., Santo, Ouest, Haiti.
- 2016 Dawson, J. D. Overview of Rehabilitation. Presented at Caregivers Class at Food for the Poor Orphanage, Humanitize Expeditions, Santo, Ouest, Haiti.
- 2017 Dawson, J. D. Overview of Rehabilitation. Presented at Caregivers Class at Notre Maison Orphanage, Humanitize Expeditions, Santo, Ouest, Haiti.

### Panels

- 2020 Effect of COVID19 on Teaching in Higher Education. Ashley Vonorny, Cedar Rapids City Council Member, Brazil.

## Seminars

- 1987 Data Quality Assurance in Field Studies. Department of Statistics Seminar, Brigham Young University, Provo, Utah.
- 1990 Dawson, J. Using Summary Statistics to Test Treatment Effect on CD4 Counts. Presented at Harvard AIDS Institute's HIV Disease Working Group, Department of Biostatistics, Harvard School of Public Health.
- 1991 Dawson, J. Repeated Measures Longitudinal Data. Presented at UIHC Clinical Epidemiology Group, The University of Iowa.
- 1992 Dawson, J. Intention-to-Treat and Missing Data in Clinical Trials. Presented at Department of Preventive Medicine and Environmental Health, Carver College of Medicine, The University of Iowa.
- 1992 Dawson, J. Sample Uses of Proc IML in SAS. Presented at Department of Preventive Medicine and Environmental Health, Carver College of Medicine, The University of Iowa.
- 1992 Dawson, J. Using Logrank Tests of Time-to-Threshold Survival Data in Repeated Measures Settings. Presented at Department of Preventive Medicine and Environmental Health, Carver College of Medicine, The University of Iowa.
- 1994 Dawson, J. Sample Size Calculations for Repeated Measures Studies. Presented at Department of Preventive Medicine and Environmental Health, Carver College of Medicine, The University of Iowa.
- 1997 Dawson, J. & Han, S. H. Adjusting for Baseline Differences in Observation Studies. Presented at Department of Preventive Medicine and Environmental Health, Biostatistics Division, Carver College of Medicine, The University of Iowa.
- 1997 Dawson, J. Research Skills Workshop Series (6-hr short course). The University of Iowa, Iowa City, Iowa.
- 1998 Dawson, J. Research Skills Workshop Series (6-hr short course). The University of Iowa.
- 1999 Dawson, J. D., Davis, P. H. & Lauer, R. M. Using AUC Calculations to Describe the Cumulative Load of Risk Factors. Presented at Biostatistics Department, College of Public Health, The University of Iowa.
- 2000 Dawson, J. Avoiding Common Statistical Errors When Conducting Scientific Research. Presented at College of Dentistry, The University of Iowa.
- 2000 Dawson, J. Statistic Issues and Errors in the Design, Implementation, Analysis, Presentation, and Review of Scientific Research. Presented at Department of Family Medicine, Carver College of Medicine, University of Iowa.
- 2001 Dawson, J. Approaches for Analyzing Bounded Data. Presented at Biostatistics Department, College of Public Health, The University of Iowa.
- 2003 Dawson, J. Quantitative Analytical Methods in Translation Research. Presented at Advancing Quality Care Through Translation Research, Agency for Healthcare Research and Quality.
- 2004 Dawson, J. Variability, Independence, and Sample Size Issues in Medical Research. Presented at Department of Internal Medicine, Carver College of Medicine, The University of Iowa.
- 2005 Ethical Guidelines for Biostatisticians. Department of Biostatistics, University of Iowa.

2008	Dawson, J. Applied and Methodological Work in Driving Studies. Presented at Biostatistics Student Organization Academic Club, The University of Iowa.
2009	Dawson, J. An Introduction to the Field of Biostatistics. Presented at Math Club, The University of Iowa.
2009	Dawson, J. Missing and Sparse Data and Other Issues of Bias. Presented at Neurology Department, Carver College of Medicine, The University of Iowa.
2009	Dawson, J. Statistical Issues in Research: Design and Analysis. Presented at Neurology Department, Carver College of Medicine, The University of Iowa.
2010	A Time-Series Model for Lateral Control in Driving Studies. Department of Biostatistics, University of Iowa.
2010	Thinking Outside the Box-Plot: Outreach in Haiti and Other Non-Traditional Roles for Biostatisticians. Department of Biostatistics, University of Iowa.

## Service

### Professional Service

#### Professional Organizations

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
1993 - 2003	Drug Information 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
1987 - Present	American Statistical Association, Member
1992 - Present	International Biometric Society (ENAR), Member

#### Journal Reviews/Referee Manuscripts

1993	The Anatomical Record, Reviewer
1993 - 1994	Am Journal of Medicine, Reviewer
1992 - 1995	Am Journal of Public Health, Reviewer
1995	Journal of AIDS, Reviewer
1997	Journal of Statistical Planning & Inference, Reviewer
1995 - 1998	JOSPT, Reviewer
1998	Statistical Methods, Reviewer
1999	Introduction to Biostatistics, Reviewer
2001	Bold Face Editors, Reviewer

1996 - 2002	Controlled Clinical Trials, Reviewer
1998 - 2002	Regional Anesthesia and Pain Medicine, Reviewer
1995 - 2003	Biometrics, Reviewer
1996 - 2003	Statistics in Medicine, Reviewer
2003	JAMA, Reviewer
1996 - 2004	Am Journal of Psychiatry, Reviewer
2004	Arteriosclerosis, Thrombosis, and Vascular Biology, Reviewer
1991 - 2005	JASA, Reviewer
1999 - 2006	Communications in Statistics, Reviewer
2006	Computational Statistics and Data Analysis, Reviewer
2006	Statistical Papers, Reviewer
2007	The American Statistician, Reviewer
2007	Journal of Statistical Computing and Simulation, Reviewer
1994 - 2008	Statistics in Medicine, Reviewer
2006 - 2009	Editorial Board, American Journal of Preventive Medicine, Member
2010	Circulation, Arrhythmia & Electrophysiology, Reviewer
2011	Psychology and Aging, Reviewer
2002 - 2012	Circulation, Reviewer
2009 - 2015	Driving Assessment Conference, Reviewer
2012 - 2015	Journal of the Society for Clinical Trials, Reviewer
2015	Computers in Biology and Medicine, Reviewer
2015	Movement Disorders, Reviewer
2010 - 2016	Journal of the American Geriatric Society, Reviewer
2012 - 2017	Accident Analysis and Prevention, Reviewer
2012 - Present	Neurosurgery, Reviewer

#### Review Panels

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	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
2004 - 2012	National Medical Research Council, Reviewer
2017	FMCSA Vision Standard Peer Review Committee, University of Alabama-Birmingham, Reviewer
2017	Truck and Bus Maintenance Proposal Review Committee, Virginia Tech Transportation Institute, Reviewer

#### Organize Conferences, Sessions, etc.

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

#### National/International Committees

1993 - 1995	Family Practice Research Development Fund Review Committee, Member
2004	Accredited Schools of Public Health, member of focus group on curriculum review for women's health, Member

#### Professionally Relevant Community Involvement

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



## Professional Consulting

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
2006	Alzheimer's Disease Research Centers of California (USC, UC-Davis, & UCSF), Statistical Consultant
2004 - 2007	DMV International, Delhi, NY, Statistical Consultant
2011	Project Medishare for Haiti Port-au-Prince, Haiti, Logistics Consultant for Medical Warehouse
2008 - 2015	Healing Hands for Haiti International Foundation, Port-Au-Prince, Haiti, Statistical Consultant & Interpreter
2015 - Present	Humanitize Expeditions, Haitian Creole Interpreter

## Other

2005 - 2010	Data Safety and Monitoring Board for dermatology clinical trial, Chair
2003 - 2012	Data Safety and Monitoring Board member for stroke clinical trial, Member

## **University, College, Department Service**

### University

1993 - 1995	Family Practice Research Development Fund Review Committee, Member
1998 - 2005	Human Subjects Committee (Institutional Review Board), Member
2020 - Present	Iowa Global Health Network (Executive Committee), Member
2021 - Present	International Business Certificate (IBC) Curriculum Review Committee, Member
2021 - Present	Path to Distinction: Best Practices Guidance for Faculty Search Committee, Member
2022 - Present	International Programs Faculty Advisory Committee, Member

### College

2006	Review Committee for the Program in Public Health Genetics, Member
2007 - 2008	CPH Faculty Council, Co-Chair
2008 - 2009	CPH Faculty Council, Chair
2007 - 2010	CPH Faculty Council, Member
2009 - 2011	CPH Promotion and Tenure Committee, Chair
2016 - 2018	CPH Undergraduate Public Health Methods Course Developers Group, Member
2010 - Present	CPH Executive Committee (Associate Dean for Faculty Affairs), Member
Sep 2020 - Present	CPH Global Public Health Committee (became Chair in 2022), Member

Department

1992	Biostatistics PhD Specialty Examination Committee, Chair
1993	Biostatistics PhD Comprehensive Examination Standards Committee, Department of Biostatistics, University of Iowa, Member
1993 - 1994	Biostatistics Seminars Committee, University of Iowa, Chair
1996 - 1997	Biostatistics Seminars Committee, Department of Biostatistics, University of Iowa, Chair
1995 - 1998	Biostatistics M.S. Exam Committee, Department of Preventive Medicine, College of Medicine, University of Iowa, Member
1997 - 1998	Biostatistics PhD Comprehensive Exam Committee, Department of Biostatistics, University of Iowa, Member
1991 - 1999	PMEH Curriculum Committee, University of Iowa, Department of Preventive Medicine, Member
1996 - 2000	Faculty Advisor, Biostatistics Student Association, Department of Biostatistics, University of Iowa
2001 - 2002	Biostatistics Seminars Committee, Department of Biostatistics, College of Public Health, University of Iowa, Chair
2002 - 2003	Biostatistics Masters Exam Committee, Department of Biostatistics, College of Public Health, University of Iowa, Chair
2001 - 2004	MPH Advisory Committee, College of Public Health, University of Iowa, Member
2006 - 2007	Department MPH Committee, Chair
2006 - 2007	Masters Examination Committee, Department of Biostatistics, College of Public Health, University of Iowa, Member
2006 - 2007	MPH Committee, Department of Biostatistics, College of Public Health, University of Iowa, Chair
2006 - 2008	Departmental Self-Study Report Committee, Member
2004 - 2009	Departmental Curriculum Committee, Department of Biostatistics, College of Public Health, University of Iowa, Member
2005 - 2009	Biostatistics Administrative Committee, Member
2006 - 2009	Departmental Student Awards Committee, Department of Biostatistics, College of Public Health, University of Iowa, Chair
2007 - 2010	Departmental MPH Committee, Department of Biostatistics, College of Public Health, University of Iowa, Chair
Sep 2022 - Aug 2023	M.S. Core Exam Committee (Winter 2023), Chair
2002 - Present	Biostatistics Admissions and Student Recruitment Committee, Department of Biostatistics, College of Public Health, University of Iowa, Member
2007 - Present	MS Examination Committee, Department of Biostatistics, College of Public Health, University of Iowa, Member
2016 - Present	Biostatistics Student Awards Committee, Member
2019 - Present	Biostatistics Diversity, Equity, and Inclusion Committee, Chair 2020-2022, Member