

**COLLEGE OF PUBLIC HEALTH CURRICULUM VITAE**

**Jeffrey D. Dawson, ScD**  
June 10, 2010

**I. EDUCATIONAL AND PROFESSIONAL HISTORY**

**A. Education** (least to most recent)  
*(includes undergraduate, graduate, and postgraduate education)*

| <u>Institution</u>                            | <u>Dates Attended</u> | <u>Field of Study</u> | <u>Degree Obtained</u>    | <u>Degree Date</u> |
|---|-----------------------|-----------------------|---------------------------|--------------------|
| Brigham Young University<br>Provo, UT         | 1982-87               | Statistics            | B.S.<br>(Magna Cum Laude) | 1987               |
| Harvard School of Public Health<br>Boston, MA | 1987-91               | Biostatistics         | Sc.D.                     | 1991               |

**Certification/Licensure**  
None

**B. Professional and Academic Positions**

| <u>Position Title</u>                            | <u>Dates of Service</u> | <u>Location/Institution</u>  |
|--|-------------------------|--|
| Teaching Assistant                               | 1987-91                 | Harvard University   |
| Summer Trainee                                   | 1988                    | Dana-Farber Cancer Institute   |
| Research Assistant                               | 1989-90                 | Harvard University   |
| Assistant Professor<br>of Biostatistics          | 1991-1997               | Dept. of Preventive Medicine &<br>Environmental Health, College of Medicine<br>The University of Iowa<br>Iowa City, IA |
| Associate Professor<br>of Biostatistics          | 1997-1999               | Dept. of Preventive Medicine &<br>Environmental Health, College of Medicine<br>The University of Iowa<br>Iowa City, IA |
| Associate Professor<br>of Biostatistics          | 1999-2009               | Dept. of Biostatistics<br>College of Public Health<br>The University of Iowa<br>Iowa City, IA                          |
| Director of Graduate<br>Studies in Biostatistics | 2003-                   | Dept. of Biostatistics<br>College of Public Health<br>The University of Iowa<br>Iowa City, IA                          |

Professor of  
Biostatistics

2009-

Dept. of Biostatistics  
College of Public Health  
The University of Iowa  
Iowa City, IA

**C. Honors, Awards, Recognitions, Outstanding Achievements**  
(least to most recent)

| <u>Year</u> | <u>Title</u>  |
|-------------|---|
| 1987        | Elected Member of Phi Kappa Phi Honor Society   |
| 1987        | Graduated Magna Cum Laude and received Departmental Award   |
| 1989-91     | Selected as Teaching Fellow   |
| 1992        | National Science Foundation travel award  |
| 1994        | Elected Faculty Senate Member   |
| 1997        | Co-author of Best Research Paper at SGO Annual Meeting  |
| 1997        | Co-author of Best Research Paper (Honorable Mention), selected by the Society of Teachers of Family Medicine                          |
| 1997        | Co-author of paper receiving Award for Clinical Biomechanics Research by the American Society of Biomechanics                         |
| 1999        | Appointed as Faculty Mentor for Medical Science Training Program  |
| 2004        | College of Public Health Faculty Service Award  |
| 2008        | Elected Chair of College of Public Health Faculty Council   |
| 2009        | Driving research in Alzheimer's disease featured locally, nationally, and internationally in websites, newspapers, and radio programs |

**II. TEACHING AT THE UNIVERSITY OF IOWA**

**A. Teaching Assignments** on semester-by-semester basis (least to most recent) (*classroom, seminar, teaching lab*)

| <u>Semester,<br/>Year</u> | <u>Course Title/<br/>Number</u>                        | <u>Semester<br/>Hours</u> | <u>#<br/>Students</u> | <u>Role</u> | <u>Percent<br/>Responsible</u> |
|---------------------------|--|---------------------------|-----------------------|-------------|--------------------------------|
| 1991                      | 63:161 Introduction to Biostatistics                   | 3.0                       | 44                    | Instructor  | 100%                           |
| 1992                      | 63:161 Introduction to Biostatistics                   | 3.0                       | 35                    | Instructor  | 100%                           |
| 1992                      | 63:176 Biostatistical Methods I<br>(with computer lab) | 4.0                       | 5                     | Instructor  | 100%                           |

|      |  |     |    |            |      |
|------|--|-----|----|------------|------|
| 1993 | 63:276 Biostatistical Methods II<br>(with computer lab)                          | 4.0 | 7  | Instructor | 100% |
| 1993 | 50:211 MSTP Summer Research  | 1.0 | 1  | Instructor | 100% |
| 1993 | 63:203 Preceptorship in PM & EH  | 3.0 | 1  | Instructor | 100% |
| 1994 | 63:162/22S:140 Design & Analysis<br>of Experiments in the Biological<br>Sciences | 3.0 | 32 | Instructor | 100% |
| 1994 | 63:300 Thesis  | 5.0 | 1  | Instructor | 100% |
| 1994 | 63:203 Preceptorship in PM & EH  | 3.0 | 2  | Instructor | 100% |
| 1994 | 63:176 Biostatistical Methods I<br>(with computer lab)                           | 4.0 | 8  | Instructor | 100% |
| 1995 | 63:276 Biostatistical Methods II<br>(with computer lab)                          | 4.0 | 4  | Instructor | 100% |
| 1995 | 63:203 Preceptorship in PM & EH  | 3.0 | 6  | Instructor | 100% |
| 1995 | 63:201 Research in PM & EH   | 1.0 | 2  | Instructor | 100% |
| 1995 | 63:261 Survival Analysis   | 3.0 | 11 | Instructor | 100% |
| 1995 | 63:300 Thesis  | 4.0 | 1  | Instructor | 100% |
| 1996 | 63:300 Thesis  | 2.0 | 2  | Instructor | 100% |
| 1996 | 63:162 Design and Analysis of<br>Experiments in the Biological<br>Sciences       | 3.0 | 28 | Instructor | 100% |
| 1996 | 63:203 Preceptorship in PM & EH  | 3.0 | 1  | Instructor | 100% |
| 1996 | 63:172 Independent Study and<br>Research   | 1.0 | 1  | Instructor | 100% |
| 1996 | 63:176 Biostatistical Methods I<br>(with computer lab)                           | 4.0 | 16 | Instructor | 100% |
| 1997 | 63:276 Biostatistical Methods II<br>(with computer lab)                          | 4.0 | 8  | Instructor | 100% |
| 1997 | 63:300 Thesis  | 9.0 | 3  | Instructor | 100% |
| 1997 | 63:261 Survival Analysis   | 3.0 | 5  | Instructor | 100% |
| 1998 | 63:162 Design and Analysis of<br>Experiments in the Biological<br>Sciences       | 3.0 | 33 | Instructor | 100% |
| 1998 | 63:300 Thesis  | 6.0 | 1  | Instructor | 100% |
| 1998 | 63:203 Preceptorship in PM & EH  | 3.0 | 3  | Instructor | 100% |
| 1998 | 63:176 Biostatistical Methods I<br>(with computer lab)                           | 4.0 | 11 | Instructor | 100% |
| 1999 | 63:276 Biostatistical Methods II<br>(with computer lab)                          | 4.0 | 9  | Instructor | 100% |
| 1999 | 63:203 Preceptorship in PM & EH  | 3.0 | 2  | Instructor | 100% |
| 1999 | 63:261 Survival Analysis   | 3.0 | 13 | Instructor | 100% |

|      |  |     |    |                         |      |
|------|--|-----|----|-------------------------|------|
| 2000 | 63:162 Design and Analysis of Experiments in the Biological Sciences | 3.0 | 28 | Instructor              | 100% |
| 2000 | 63:203 Preceptorship in PM & EH                                      | 3.0 | 1  | Instructor              | 100% |
| 2000 | 171:281 Independent Study  | 1.0 | 1  | Instructor              | 100% |
| 2001 | 171:201 Biostatistical Methods I (with computer lab)                 | 4.0 | 13 | Instructor              | 100% |
| 2002 | 171:162 Design and Analysis of Biomedical Studies                    | 3.0 | 39 | Instructor              | 100% |
| 2002 | 171:280 Preceptorship in Biostatistics                               | 3.0 | 2  | Instructor              | 100% |
| 2002 | 171:201 Biostatistical Methods I (with computer lab)                 | 4.0 | 16 | Instructor              | 100% |
| 2003 | 171:202 Biostatistics Methods II (with computer lab)                 | 4.0 | 15 | Instructor              | 100% |
| 2003 | 171:280 Preceptorship in Biostatistics                               | 3.0 | 4  | Instructor              | 100% |
| 2003 | 171:161 Introduction to Biostatistics (begins 7/1/03)                | 3.0 | 26 | Instructor              | 100% |
| 2003 | 171:201 Biostatistical Methods I (with computer lab)                 | 4.0 | 18 | Instructor              | 100% |
| 2004 | 171:290 Advanced Biostatistics Seminar                               | 1.0 | 4  | Instructor              | 100% |
| 2004 | 171:280 Preceptorship in Biostatistics                               | 3.0 | 2  | Instructor              | 100% |
| 2004 | 171:161 Introduction to Biostatistics                                | 3.0 | 21 | Instructor              | 100% |
| 2004 | 171:201 Biostatistical Methods I (computer lab portion)              | 4.0 | 15 | Computer lab instructor | 25%  |
| 2004 | 171:290 Preceptorship in Biostatistics                               | 1.0 | 1  | Instructor              | 100% |
| 2005 | 171:202 Biostatistics Methods II (with computer lab)                 | 4.0 | 20 | Instructor              | 100% |
| 2005 | 171:280 Preceptorship in Biostatistics                               | 3.0 | 1  | Instructor              | 100% |
| 2005 | 171:161 Introduction to Biostatistics                                | 3.0 | 21 | Instructor              | 100% |
| 2006 | 171:280 Preceptorship in Biostatistics                               | 3.0 | 2  | Instructor              | 100% |
| 2006 | 171:201 Biostatistical Methods I (with computer lab)                 | 4.0 | 15 | Instructor              | 100% |
| 2007 | 171:280 Preceptorship in Biostatistics                               | 1.0 | 1  | Instructor              | 100% |
| 2007 | 171:201 Biostatistical Methods I                                     | 4.0 | 12 | Instructor              | 100% |
| 2007 | 171:280 Preceptorship in Biostatistics                               | 3.0 | 1  | Instructor              | 100% |
| 2007 | 171:281 Independent Study in Biostatistics                           | 1.0 | 1  | Instructor              | 100% |
| 2008 | 171:290 Advanced Biostatistics Seminar                               | 1.0 | 5  | Co-Instructor           | 50%  |

|      |   |       |    |             |      |
|------|---|-------|----|-------------|------|
| 2008 | 171:280 Preceptorship in Biostatistics                              | 3.0   | 2  | Instructor  | 100% |
| 2008 | 171:161 Introduction to Biostatistics                               | 3.0   | 14 | Instructor  | 100% |
| 2008 | 171:201 Biostatistical Methods I                                    | 4.0   | 12 | Instructor  | 100% |
| 2008 | 171:281 Independent Study in Biostatistics                          | 2-3.0 | 2  | Instructor  | 100% |
| 2009 | 171:290 Advanced Biostatistics Seminar (Statistics in Microbiology) | 0.0   | 7  | Co-Director | 50%  |
| 2009 | 171:201 Biostatistical Methods I                                    | 4.0   | 9  | Instructor  | 100% |
| 2009 | 171:280 Preceptorship in Biostatistics                              | 3.0   | 2  | Instructor  | 100% |
| 2009 | 171:281 Independent Study in Biostatistics                          | 1.0   | 1  | Instructor  | 100% |
| 2009 | 171:295 Research in Biostatistics                                   | 1.0   | 1  | Instructor  | 100% |
| 2010 | 171:290 Advanced Biostatistics Seminar (Statistics in Microbiology) | 0.0   | 8  | Co-Director | 50%  |
| 2010 | 171:281 Independent Study   | 3.0   | 1  | Instructor  | 100% |
| 2010 | 171:300 Thesis/Dissertation   | 1.0   | 1  | Instructor  | 100% |

## B. Students Supervised

### Graduate Students Name

### Degree Objective

### Outcome

|                    |   |   |
|--------------------|---|---|
| Yun-Soo Lee        | PhD, Preventive Medicine and Environmental Health (Biostatistics)     | Withdrew, 11/1992   |
| Hsiao-Ping Peng    | MS, Preventive Medicine and Environmental Health (Biostatistics)      | Withdrew, 3/1993  |
| Dawn Stephens      | MS, Preventive Medicine and Environmental Health (Biostatistics)      | Graduated, 5/1995   |
| Hungta (Tony) Chen | PhD, Preventive Medicine and Environmental Health (Biostatistics)     | Graduated, 8/1995   |
| Chun-Mei Fu        | PhD, Preventive Medicine and Environmental Health (Biostatistics)     | Did not pass second attempt of PhD Comprehensive Exam, 2/1996 |
| Michelle Combs     | PhD, Preventive Medicine and Environmental Health (Biostatistics)     | Graduated, 5/1997   |
| Seung-Ho Han       | PhD, Preventive Medicine and Environmental Health (Biostatistics)     | Graduated, 12/1997  |
| Xuemei Wang        | MS, Preventive Medicine and Environmental Health (Biostatistics)      | Graduated, 5/1999   |
| Jian Jin           | MS, Preventive Medicine and Environmental Health (Biostatistics)      | Graduated, 12/1999  |
| Colin West         | MS, PhD, Preventive Medicine and Environmental Health (Biostatistics) | MS, 12/1995;<br>PhD, 12/1999                                  |

|                     |   |  |
|---------------------|---|--|
| Elizabeth Ludington | PhD, Preventive Medicine and Environmental Health (Biostatistics) | Graduated, 8/2000                          |
| Chun Cheng          | MS, Biostatistics   | Transferred to Univ. of Washington, 8/2000 |
| Mahbubul Islam      | MS, Preventive Medicine and Environmental Health (Biostatistics)  | Graduated, 5/2002                          |
| Jianfang Hu         | MS, Biostatistics   | Graduated, 8/2003                          |
| Shaohua Beaver      | MS, Biostatistics   | Withdrew 8/2003                            |
| Ilkyung Cho         | MS, Biostatistics   | Inactive status, 8/2004                    |
| Yoonsang Kim        | MS, Biostatistics   | Graduated, 12/2005                         |
| Omayra Ortega       | MPH, General track  | Graduated, 12/2005                         |
| Ashish Patel        | MPH, Biostatistics  | Transferred to OEH subtrack                |
| John Ely            | MS, Biostatistics   | Inactive status, 1/2006                    |
| Lixun Zhang         | MS, Biostatistics   | Graduated, 5/2006                          |
| Yajun Zhu           | MS, Biostatistics   | Graduated, 5/2006                          |
| Anna Hassebroek     | MPH, Biostatistics  | Graduated, 5/2006                          |
| Qian Wang           | MS, Biostatistics   | Graduated, 5/2006                          |
| Qiang Cai           | MS, Biostatistics   | Graduated, 12/2006                         |
| Qian Shi            | MS, PhD, Biostatistics  | MS, 5/2004;<br>PhD, 12/2007                |
| Wenjiao Lin         | MS, Biostatistics   | Graduated, 12/2007                         |
| Soumya Mazumdar     | MPH, Biostatistics  | Graduated, 12/2007                         |
| Songfeng Wang       | MS, Biostatistics   | Graduated, 5/2008                          |
| Rebecca Mastbergen  | MS, Biostatistics   | Graduated, 5/2009                          |
| Ana Capuano         | MS, PhD, Biostatistics and OEH                                    | Biostatistics MS, 5/2010; OEH PhD pending  |
| Sarah Perry         | MS, PhD, Biostatistics  | MS, 5/2010;<br>PhD pending                 |
| Denise Szecsei      | MS, Biostatistics   | Pending                                    |
| Colleen Kummet      | MS, Biostatistics   | Pending                                    |
| Elizabeth Dastrup   | PhD, Biostatistics  | Pending                                    |
| Amy Johnson         | PhD, Biostatistics  | Pending                                    |

*Dissertations/Theses*

| <u>Name</u>             | <u>Degree Objective</u>  | <u>Role</u>      | <u>Outcome</u>     |
|-------------------------|--|------------------|--------------------|
| Day-Yu Chao             | MS, Preventive Medicine and Environmental Health (OEH)                                 | Committee Member | Graduated, 5/1993  |
| Cindy Hanawalt          | MS, Preventive Medicine and Environmental Health (General Track)                       | Committee Chair  | Graduated, 5/1993  |
| Alex Juchems            | MS, Preventive Medicine and Environmental Health (OEH)                                 | Committee Member | Graduated, 5/1993  |
| Vickie Shavers-Hornaday | MS, Preventive Medicine and Environmental Health (Epidemiology)                        | Committee Member | Graduated, 11/1993 |
| Barb Quaney             | MS, Physical Therapy   | Committee Member | Graduated, 12/1993 |
| Eleanor Figuerres       | MS, Preventive Medicine and Environmental Health (Epidemiology)                        | Committee Member | Graduated, 8/1994  |
| Edward Barakatt         | MS, Physical Therapy   | Committee Member | Graduated, 12/1994 |
| Marlena Hammond-Ehlers  | MS, Preventive Medicine and Environmental Health (Epidemiology)                        | Committee Member | Graduated, 12/1994 |
| Judith C. Ruskin        | MS, Prev. Med. and Env. Health and Nursing   | Committee Member | Graduated, 12/1995 |
| Craig Taylor            | MS, Preventive Medicine and Environmental Health (OEH)                                 | Committee Member | Graduated, 12/1996 |
| Cindy Hanawalt          | PhD, Preventive Medicine and Environmental Health (Interdisciplinary/health promotion) | Committee Member | Graduated, 8/1994  |
| Chi Kao                 | PhD, Preventive Medicine and Environmental Health (Biostatistics)                      | Committee Member | Graduated, 8/1994  |
| Hani Samawi             | PhD, Preventive Medicine and Environmental Health (Biostatistics)                      | Committee Member | Graduated, 8/1994  |
| Huiben Yue              | PhD, Statistics  | Committee Member | Graduated, 8/1994  |

|                           |   |                       |                    |
|---------------------------|---|-----------------------|--------------------|
| Peter Yang                | PhD, Preventive Medicine and Environmental Health (Biostatistics) | Dissertation Director | Graduated, 8/1995  |
| Margaret Alston           | PhD, Physical Therapy   | Committee Member      | Graduated, 12/1995 |
| Shawn Flanagan            | PhD, Physical Education   | Committee Member      | Graduated, 5/1996  |
| Michelle Combs            | PhD, Preventive Medicine and Environmental Health(Biostatistics)  | Committee Member      | Graduated, 5/1997  |
| Seung-Ho Han              | PhD, Preventive Medicine and Environmental Health (Biostatistics) | Committee Chair       | Graduated, 5/1997  |
| Sandra Bergquist          | PhD, Nursing  | Committee Member      | Graduated, 5/1998  |
| Colin West                | PhD, Preventive Medicine and Environmental Health                 | Committee Chair       | Graduated, 12/1999 |
| David W. Young            | PhD, Family Practice  | Committee Member      | Graduated, 5/2000  |
| Shinobu Watanabe-Galloway | PhD, Epidemiology   | Committee Member      | Graduated, 5/2000  |
| Wenquan Wang              | PhD, Biostatistics  | Committee Member      | Graduated, 5/2003  |
| Xinqun Yang               | PhD, Biostatistics (Statistical Genetics)                         | Committee Member      | Graduated, 5/2005  |
| Xianjin Xie               | PhD, Biostatistics  | Committee Member      | Graduated, 7/2005  |
| Joung Ae Lee              | PhD, Industrial Hygiene   | Committee Member      | Graduated, 5/2006  |
| Qian Wang                 | PhD, Geography  | Committee Member      | Graduated, 12/2007 |
| Qian Shi                  | PhD, Biostatistics  | Committee Member      | Graduated, 12/2007 |
| JonDavid Sparks           | PhD, Biostatistics  | Committee Member      | Graduated, 12/2009 |
| Sonali Patel              | PhD, Epidemiology   | Committee Member      | Pending            |
| Erin Moritz-Korolev       | PhD, Epidemiology   | Committee Member      | Pending            |
| Elizabeth Dastrup         | PhD, Biostatistics  | Committee Chair       | Pending            |
| Amy Johnson               | PhD, Biostatistics  | Committee Chair       | Pending            |
| Ana Capuano               | PhD, Occupational and Environmental Health                        | Committee Chair       | Pending            |

*Graduate Research Assistants Supervised*

| <u>Name</u>         | <u>Description of Project(s)</u>                             |
|---------------------|--|
| Chi Kao             | Sample size calculations in repeated measures studies.       |
| Seung-Ho Han        | Iterative and non-iterative methods for longitudinal data.   |
| Taekyu Hwang        | Nosocomial fungal infections in neonatal and surgical ICU's. |
| Elizabeth Ludington | Nosocomial fungal infections in neonatal and surgical ICU's. |
| Colin West          | Simulations of imputation schemes in longitudinal data.      |
| Kirk Bateman        | Studies of drivers with neurological deficits.               |
| Laura Stierman      | Studies of drivers with neurological deficits.               |
| Qian Shi            | Studies of drivers with neurological deficits.               |
| Jon-David Sparks    | Studies of drivers with neurological deficits.               |
| Yang Lei            | Studies of drivers with neurological deficits.               |
| Elizabeth Dastrup   | Studies of drivers with neurological deficits.               |
| Mijin Jang          | Studies of drivers with neurological deficits.               |
| Wenjiao Lin         | Atherosclerosis in young and middle-aged populations.        |
| Rebecca Mastbergen  | Atherosclerosis in young and middle-aged populations.        |
| Amy Johnson         | Studies of drivers with neurological deficits.               |
| Chelsea Caspell     | Studies of children with oral cleft palates.                 |

*Other Advising/Mentoring*

| <u>Name</u>     | <u>Position</u>     | <u>Role</u>                                    | <u>Outcome</u>   |
|-----------------|---------------------|--|--|
| Ergun Uc        | Assistant Professor | Statistical mentor                             | Awarded CPH/COM Award and R01 Grant in 2003;<br>Received tenure in 2007          |
| Natalie Denburg | Assistant Professor | Statistical mentor                             | Awarded K01 grant from NIA in 2004   |
| Beng-Coon Ho    | Assistant Professor | Statistical mentor                             | Awarded K23 grant from NIMH in 2005<br>Received tenure in 2005                   |
| Hyonggin An     | Assistant Professor | Mentor for teaching and collaborative research | Successfully recruited by Department of Biostatistics, Korea University, in 2007 |
| Faryle Nothwehr | Assistant Professor | Statistical assistance for grant submission    | Awarded R21 and received tenure in 2007  |

|                |   |                                   |  |
|----------------|---|-----------------------------------|--|
| Dawei Liu      | Assistant Professor                     | Mentor for collaborative research | Obtained 0.50 FTE funding in first month of arrival to department.   |
| Joanna Kao     | Senior, West High School, Iowa City, IA | Statistical Mentor                | Placed in top 6 in national Young Epidemiology Scholars competition in 2009; received \$20,000 scholarship (sponsored by Robert Wood Johnson Foundation and College Board) |
| Laura Vonnahme | MPH Candidate                           | Mentor for MPH Practicum          | MPH, 2010  |

**C. Other Contributions to Institutional Programs**

*Institutional Conferences, Grand Rounds, Journal Club*

| <u>Date</u> | <u>Title</u>  | <u>Location</u> |
|-------------|---|-----------------|
| 1988-90     | Computing Module of New Student Orientation (2 weeks/year, 35 hours/week) |                 |

*Teaching Committees*  
None

*Counseling*  
None

*National Education-Related Presentations*  
Year                      Title  
None

*Formal Study to Improve Teaching Abilities*  
Year                      Institution                      Course Title  
1989                      Weekly meetings with E. Sarkisian, Harvard Educational Consultant

*Current Research Concerning Teaching*  
2009                      Refinement of Education Workshops for Caregivers of Haitian Children Receiving Rehabilitation Therapy

*Local and Regional CME Talks*  
Year                      Title                      Location  
None

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

| Course  | Description                               | (Date Last Used)                                |
|---------|---|---|
| 171:162 | Design and Analysis of Biomedical Studies | 156 pages of course notes (Spr, 2002)           |
| 171:162 | Design and Analysis of Biomedical Studies | 14 pages of computer lab materials (Spr, 2002)  |
| 171:201 | Biostatistical Methods I                  | 157 pages of course notes (Fall, 2009)          |
| 171:201 | Biostatistical Methods I                  | 44 pages of computer lab materials (Fall, 2009) |
| 171:202 | Biostatistical Methods II                 | 141 pages of course notes (Spr, 2005)           |
| 171:202 | Biostatistical Methods II                 | 50 pages of computer lab materials (Spr, 2005)  |
| 171:261 | Survival Analysis                         | 215 pages of course notes (Fall, 1999)          |

### III. SCHOLARSHIP

#### A. Publications or Creative Works (least to most recent)

##### *Peer-Reviewed Papers*

1. Dawson JD and Lagakos SW. Analyzing laboratory marker changes in AIDS clinical trials. Journal of AIDS 4:667-76, 1991. (Role: Study Design, Analytical Derivations, Database Management, Supervision of Research Assistant, Data Analysis, Writing and Editing the Paper, Preparing Written Response to Reviewers) PMID: 2051307
2. Dawson JD and Lagakos SW. Size and power of two-sample tests of repeated measures data. Biometrics 49:1022-32, 1993. (Role: Study Design, Analytical Derivations, Database Management, Data Analysis, Writing and Editing the Paper, Preparing Written Response to Reviewers) PMID: 7906957
3. Dawson JD. Comparing treatment groups on the basis of slopes, areas-under-the-curve, and other summary measures. Drug Information Journal 28:723-732, 1994. (Roles: Study Design, Writing and Editing Paper)
4. Dawson JD. Stratification of summary statistic tests according to missing data patterns. Statistics in Medicine 13:1853-1863, 1994. (Role: Study Design, Database Management, Data Analysis, Writing and Editing Paper, Preparing Written Response to Reviewers) PMID: 7997718
5. Ely JW, Rijhsinghani A, Bowdler NC, and Dawson JD. The association between manual removal of the placenta and post-partum endometritis following vaginal delivery. Obstetrics and Gynecology 86:1002-6, 1995. (Role: Study Design, Database Management, Supervision of Research Assistant, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 7501321

6. Ely JW, Dawson JD, Mehr DR, and Burns TB. Understanding logistic regression analysis through example. *Family Medicine* 28:134-40, 1996. (Role: Study Design, Confirmation of Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 8932495
7. Barakatt E, Smidt GL, Dawson JD, Wei S-H, and Heiss D. Interinnominate motion and symmetry: comparison between gymnasts and nongymnasts. *JOSPT* 23:309-19, 1996. (Role: Study Design, Supervision of Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 8728529
8. Ely JW, Dawson JD, Townsend AS, Rijhsinghani A, and Bowdler NC. Benign fever following vaginal delivery. *Journal of Family Practice* 43:146-51, 1996. (Role: Study Design, Database Management, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 8708624
9. Edmond MB, Ober JF, Dawson JD, Weinbaum DL, and Wenzel RP. Vancomycin-resistant enterococcal bacteremia: natural history, attributable morbidity and mortality. *Clinical Infectious Diseases* 23:1234-39, 1996. (Role: Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 8953064
10. Van Voorhis BJ, Dawson JD, Stovall DW, Sparks AET, and Syrop CH. The effects of smoking on ovarian function and fertility during assisted reproduction cycles. *Obstetrics and Gynecology*, 88:785-91, 1996. (Role: Database Management, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 8885914
11. Ely JW, Howser DM, Dawson JD, Bowdler NC, and Rijhsinghani A. Practice patterns during the third stage of labor: the effect of physician age and specialty. *Journal of Family Practice* 43:545-49, 1996. (Role: Study Design, Supervision of Database Management and, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 8969701
12. Ely JW, Dawson JD, Lemke JH, and Rosenberg J. An introduction to time-trend analysis. *Infection Control and Hospital Epidemiology*, 18:267-74, 1997. (Role: Study Design, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 9131373
13. Rizzo M, Reinach S, McGehee D, and Dawson JD. Simulated car crashes in drivers with Alzheimer's Disease. *Archives of Neurology*, 54: 545-51, 1997. (Role: Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper)
14. Nygaard IE, Rao S S-C, and Dawson JD. Anal incontinence after anal sphincter disruption: a 30-year retrospective cohort study. *Obstetrics and Gynecology*, 89:896-901, 1997. (Role: Database Management, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 9170461
15. Bergus G, Levy B, Randall C, Dawson J, and Jogerst C. Skills that community practicing Iowa family physicians desire in a new physician partner. *Family Medicine*, 29:618-24, 1997. (Role: Study Design, Database Management, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 9354867
16. Souza IE, Gregg A, Pfab D, Dawson JD, Benson P, O'Neill ME, Murph JR, and Bale JF. Cytomegalovirus infection in newborns and family members: polymerase chain reaction analysis of isolates. *Infection*, 25:144-9, 1997. (Role: Study Design, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 9181380

17. Sood AK, Buller RE, Burger RA, Dawson JD, Sorosky JI, and Berman M. Value of preoperative CA 125 level in the management of uterine cancer and prediction of clinical outcome. Obstetrics and Gynecology, 90:441-7, 1997. (Role: Database Management, Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper) PMID: 9277659
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43. Dawson JD and Han S-H. Stratified tests, stratified slopes, and random effects models for clinical trials with missing data. Journal of Biopharmaceutical Statistics, 10:447-55, 2000. (Role: Writing and editing entire paper; Supervision of programmer) PMID: 11104386
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60. Dawson, JD. Quantitative analytical methods in translation research. Worldviews in Evidence-Based Nursing, 1(S1):S60-S64, 2004. (Role: Study Design, Data Analysis, Writing and Editing of Paper, Responding to Comments by Reviewer and Editor) PMID: 17129337
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68. Uc EY, Rizzo M, Anderson SW, Shi Q, Rodnitzky RL, and Dawson JD. Visual dysfunction in Parkinson disease without dementia. Neurology, 65:1907-1913, 2005. (Role: Study design, Supervision of Data Analysis and Statistical Sections, Editing Final Paper)\_PMID: 16282276

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72. Jogerst GJ, Daly JM, Dawson JD, Peek-Asa C, and Schmuck GA. Iowa nursing home characteristics associated with reported abuse. Journal of the American Medical Directors Association, 7 (4): 203-7, May 2006. (Role: Data Analysis, Editing Final Paper) PMID: 16698504
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86. Carter BL, Bergus GR, Dawson JD, Farris KB, Doucette WR, Chrischilles EA, and Hartz AJ. A cluster randomized trial to evaluate physician/pharmacist collaboration to improve blood pressure control. Journal of Clinical Hypertension, 10:260-271, 2008. (Role: *Study design, statistical analysis, writing statistical sections of manuscript*) PMID: 18401223
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89. Carter BL, Farris KB, Abramowitz P, Weetman DB, Kaboli PJ, Dawson JD, James PA, Christensen AJ, and Brooks JM. The Iowa continuity of care study: background and methods. American Journal of Health-System Pharmacy, 17:1631-1642, 2008. (Role: *Study design, power analyses*) PMID: 18714110
90. Milchak JL, Carter BL, Ardery G, Dawson JD, Harmston M, and Franciscus CL. Physician adherence to blood pressure guidelines and its effect on seniors. Pharmacotherapy, 28:843-851, 2008. (Role: *Study design, statistical analysis, writing statistical sections of manuscript*) PMID: 18576899

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94. Dawson JD, Sonka M, Blecha MB, Lin W, and Davis PH. Risk factors associated with aortic and carotid intimal-media thickness in adolescents and young adults: the Muscatine offspring study. Journal of the American College of Cardiology, 53(24):2273-2279, 2009. (Role: Lead author, study design, statistical analyses) PMID: 19520251
95. Uc EY, Rizzo M, Dastrup E, Sparks JonDavid, Anderson SW, and Dawson JD. Impaired curve negotiation in drivers with Parkinson's disease. Turkish Journal of Neurology, 15(1):10-18, 2009. (Role: Study design, supervision of data analysis, editing of manuscript)
96. Dawson JD, Rizzo M, Anderson SW, Dastrup E, and Uc Ergun. Collision avoidance training using a driving simulator in drivers with Parkinson's disease: a pilot study. Proceedings of Driving Assessment 2009: The Fifth International Driving Symposium on Human Factors in Driving Assessment, Training and Vehicle Design, 2009. (Role: Study design, statistical analyses, writing methods and results sections)
97. Dawson JD, Rizzo M, Anderson SW, Dastrup E, and Uc Ergun. Ascertainment of on-road safety errors based on video review. Proceedings of Driving Assessment 2009: The Third International Driving Symposium on Human Factors in Driving Assessment, Training and Vehicle Design, 2009. (Role: Lead author, study design, supervision of statistical analyses)
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99. Lees MN, Cosman JD, Lee JD, Vecera SP, Jang M, Dawson JD, Rizzo MR. Cross-modal alerts for orienting of attention in attention impaired drivers. Proceedings of the IEA 2009 XVIIth Triennial Congress, 2009. (Role: Study design, analysis of data, editing).
100. Uc EY, Rizzo M, Anderson SW, Dastrup E, Sparks JD, and Dawson JD. Driving under low-contrast visibility conditions in Parkinson's disease. Neurology, 73(14):1103-1110, 2009. PMID: 19805726. (Role: Study design, supervision of statistical analyses, writing statistical sections) PMID: 19805726
101. Carter BL, Ardery G, Dawson JD, James PA, Bergus GR, Doucette WR, Chrischilles EA, Franciscus CL, and Xu Y. Physician/pharmacist collaboration to improve blood pressure control. Archives of Internal Medicine, 169(21):1996-2002, 2009. (Role: Study design, statistical analysis, writing statistical sections) PMID: 19933962
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104. Dastrup E, Lees MN, Bechara A, Dawson JD, Rizzo M. Risky car following in abstinent users of MDMA. Accident Analysis & Prevention, 42(3):867-873, 2010. (Role: Study design, supervision of statistical analysis, editing) PMID: 20380914
105. Dawson JD, Cavanaugh JE, Zamba KD, and Rizzo M. Modeling lateral control in driving studies. Accident Analysis & Prevention, 42(3):891-897, 2010. (Role: Lead author, study design, statistical analyses) PMID: 20380917
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107. Barrash J, Stillman A, Anderson SW, Uc EY, Dawson JD, and Rizzo M. Prediction of driving ability with neuropsychological tests: Demographic and adjustments diminish accuracy. Journal of the International Neuropsychological Society, May 5:1-8, 2010. [Epub ahead of print] (Role: Study design, supervising statistical analysis, editing manuscript) PMID: 20441682
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109. Rizzo M, Uc EY, Dawson JD, Anderson SW, and Rodnitzky RL. Driving difficulties in PD. Movement Disorders – Supplement: Parkinson’s Disease Foundation Frontiers of Service and Clinical Quality of Life, in press, 2010. (Role: Study design, supervision of data analysis)
110. Nothwehr F, Snetselaar L, Dawson JD, Hradek C, and Sepulveda M. Healthy option preferences of rural restaurant customers. Health Promotion Practice, in press, 2010. (Role: Assisting in study design and grant submission, data analysis, editing.) PMID: 19515859

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

1. Dawson JD. 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. Han S-H and Dawson JD. Regression to the mean and Lord’s Paradox in observational studies. ASA 1997 Proceedings of the Epidemiology Section, 110-13.
3. Dawson JD, Davis PH, and Lauer RM. 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.

## *Books/Monographs*

None

## *Chapters*

1. Davis PH and Dawson JD. Relationship between cardiovascular risk factors and coronary artery intimal-medial thickness. In: Pediatric Prevention of Atherosclerotic Cardiovascular Disease, edited by Lauer RM, Burns TL, and Daniels SR. Oxford University Press, New York, NY, 2006. (*Role: Study Design, Data Analysis, Writing, Editing*)
2. Brinig MF, Jogerst GJ, Daly JM, Schmuck GA, and Dawson JD. The public choice of elder abuse law. In: Economics of Family Law, edited by Brinig MF. Edward Elgar Publishing, Northampton, MA, 2007. (*Role: Data Analysis, Writing Statistical Sections of Paper, Editing Final Paper*)
3. Dawson JD. Statistical considerations. In: Handbook of Driving Simulation for Engineering, Medicine, and Psychology, edited by Fisher DL, Rizzo M, Caird J and Lee JD. CRC Press, Boca Raton, FL. In press, 2010. (*Role: Sole Author, Data Analysis*)

## *Electronic Publications (non-peer-reviewed)*

1. Dawson JD and Hilton SC. Multivariable approaches for analyzing bounded data. ASA 2001 Proceedings of the Biometrics Section (published on CD).

## *Abstracts*

1. Dawson JD and Lagakos SW. Comparing treatment groups with respect to repeated marker data in AIDS clinical trials. Biometric Society (ENAR) Annual Meeting, Houston, Texas, 1991.
2. Dawson JD. Conditional and unconditional summary statistic tests of repeated measure data. American Statistical Association 152nd Annual Meeting, Boston, Massachusetts, 1992.
3. Dawson JD. Comparing treatment groups on the basis of slopes, areas-under-the-curve, and other summary measures. DIA Statistical Workshop, Hilton Head, South Carolina, 1993.
4. Dawson JD. Sample size calculations based on slopes and other summary statistics. American Statistical Association 153rd Annual Meeting, San Francisco, California, 1993.
5. Dawson JD. Two-sample comparisons of repeated measures data: size, robustness, and power. Harvard/Schering-Plough Workshop, Boston, Massachusetts, 1994.
6. Dawson JD and Han S-H. Comparing likelihood-based and nonparametric longitudinal methods in the presence of informative and noninformative missing data. Biometric Society (ENAR) Annual Meeting, Birmingham, Alabama, 1995.
7. Yang HP and Dawson JD. Extending the conditional linear model to general random effects. American Statistical Association 155th Annual Meeting, Orlando, Florida, 1995.

8. Doebbeling BN, Ringold DM, Korman KT, Dawson JD, and Torner JC. Evaluation of the efficacy of measures recommended to prevent percutaneous injuries: a cohort study. ICAAC 35th Annual Meeting, San Francisco, California, 1995.
9. Doebbeling BN, Dawson JD, and Wenzel RP. Determinants of outcome for patients treated for candidemia: a multicenter study. ICAAC 35th Annual Meeting, San Francisco, California, 1995.
10. Murph JR, Dawson JD, Souza IE, Pfab DJ, Benson PM, Petheram SJ, and Bale JF, Jr. Molecular epidemiology and risk factors for congenital CMV infection. AFCR Regional Meetings, Chicago, Illinois, 1995.
11. Van Voorhis BJ, Dawson JD, Stovall DW, Sparks AET, Kantamneni JR, and Syrop CH. Current smokers but not ex-smokers have reduced fertility in ART cycles. Society for Gynecologic Investigation Meetings, Pittsburgh, Pennsylvania, 1995.
12. Dawson JD. The power of measuring the association between genotypes and continuous variables in subsamples of available specimens. American Statistical Association 156th Annual Meeting, Chicago, Illinois, 1996.
13. Nygaard IE, Rao S S-C, and Dawson JD. Anal incontinence after anal sphincter disruption: a 30-year follow-up study. American Urogynecologic Society Annual Meeting, New Orleans, 1996.
14. Weissman AM and Dawson JD. Variations in the treatment of first trimester bleeding and spontaneous abortion by family practice faculty. Annual Meeting of the North American Primary Care Research Group, Vancouver, Canada, 1996.
15. Sood AK, Buller RE, Burger R, Dawson J, Sorosky J, and Berman M. Preoperative CA 125: assessment of role and significance in uterine cancer. SGO International Meeting, Phoenix, 1997 (honored as Best Research Paper).
16. Ely JW, Goerdts CJ, Bergus GR, West CP, Dawson JD, Singh RF, and Doebbeling BN. The effect of physician characteristics on self-reported compliance with adult preventive care guidelines. Society of Teachers of Family Medicine Annual Meeting, 1997.
17. Levy BT, Dawson JD, Kaschmitter S, O'Banion E, and Eimen C. Effects of obstetrical anesthesia on neonates born to women with preeclampsia. 30th Spring Conference of The Society of Teachers of Family Medicine, 1997.
18. Han S-H and Dawson JD. Regression to the mean and Lord's paradox in observational studies. American Statistical Association 157th Annual Meeting, Anaheim, California, 1997.
19. Davis PH, Dawson JD, Mahoney LT, and Lauer RM. Increased carotid IMT and coronary artery calcification area associated in young men: the Muscatine study. American Heart Association scientific sessions, Orlando, Florida, 1997.
20. Syrop CH, Dawson JD, Husman KJ, Sparks AET, Stovall DW, and Van Voorhis BJ. Ovarian volume or follicle stimulating hormone: which predicts assisted reproduction outcomes? 10th World Congress of IVF and ART, Vancouver, Canada, 1997.
21. Davis PH, Dawson JD, and Lauer RM. Risk factor load from childhood into young adulthood relates to increased carotid IMT: the Muscatine study. American Heart Association scientific sessions, Dallas, Texas, 1998.
22. Burns TL, Mahoney LT, Stanford W, Thompson BH, Dawson JD, and Lauer RM. Lifetime risk factor load predicts coronary artery calcification in young adult men and women: the Muscatine study. 38<sup>th</sup> Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Santa Fe, New Mexico, 1998.

23. Dawson JD, Davis PH, and Lauer RM. Using area-under-the-curve calculations to describe the cumulative load of risk factors. American Statistical Association 159<sup>th</sup> Annual Meeting, Baltimore, Maryland, 1999.
24. Dawson JD. Stratified tests of summary measures: A non-interactive approach for incorporating missing data in longitudinal comparative studies. Sixth Annual Biopharmaceutical Applied Statistics Symposium, Hilton Head, South Carolina, 1999.
25. Dawson JD. Longitudinal repeated measures data: Multivariate representations versus random effects models. 25<sup>th</sup> Annual Summer Institute of Applied Statistics, Provo, Utah, 2000.
26. Rizzo M, Anderson S, Dawson J, and Nawrot M. Visual function and cognitive deficits with cerebral lesions. ARVO, 2000.
27. Janz KF, Dawson JD, and Mahoney LT. Predicting heart growth during puberty: the Muscatine study. CVD Prevention, 2:172, 2000.
28. Dawson JD and Hilton SC. Multivariable approaches for analyzing bounded data. American Statistical Association 161<sup>st</sup> Annual Meeting, Atlanta, Georgia, 2001.
29. Jogerst G, Daly J, Brinig M, Schmuck G, Dawson J, and Ingram J. Impact of laws on state reported elder abuse. American Geriatrics Society, Washington, D.C., 2002.
30. Skaar N, Anderson SW, Dawson J, and Rizzo M. Automobile driving with severe amnesia. 55<sup>th</sup> Annual Meeting of the American Academy of Neurology, Honolulu, Hawaii, 2003.
31. Skaar N, Anderson SW, Dawson J, and Rizzo M. Automobile driving with severe amnesia. 2<sup>nd</sup> International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Park City, Utah, 2003.
32. Kellison I, Rizzo M, Vecera S, and Dawson J. Blindness to context-relevant visual change in advancing age. Society for Neuroscience, San Francisco, CA, November 8-12, 933.13, 2003.
33. Rizzo M, Shi Q, Pietras T, Kellison I, Dawson J. Plaques, Stops and Virtual Cops. 129th Annual Meeting and the 7th Annual Neurology Outcomes Symposium, American Neurological Association. Toronto, Ontario, Canada October 2-6, 2004.
34. Uc EY, Rizzo M, Shi Q, Anderson SP, Dawson J. Executive Dysfunction in Mild-moderate Parkinson's Disease Correlates with Motor Disability. 32nd Annual Meeting of the International Neuropsychological Society in Baltimore, Maryland, February 4 - 7, pp. 118-119, 2004.
35. Uc EY, Rizzo M, Shi Q, Anderson SW, Rodnitzky RL, Dawson JD. Driver Landmark Identification and Safety Errors in Mild-moderate Parkinson's Disease. Poster presentation at the Movement Disorder Society's 8th annual International Congress of Parkinson's disease and Movement Disorders. June 13-17, Rome, Italy. Movement Disorders, 2004, Volume 19, Supplement 9: S193-4, 2004.
36. Uc E, Rizzo M, Shi Q, Anderson SW, Rodnitzky RL, Dawson JD. Route-Following and Safety Errors in Drivers with Parkinson's Disease. American Academy of Neurology, 56th Annual Meeting, San Francisco, CA, April 24-May 1. Neurology, 2004, 62 (7). Supplement 5:A523, 2004.
37. Uc EY, Rizzo M, Anderson SW, Shi, Q, Dawson JD. Executive dysfunction in mild-moderate Parkinson's disease correlates with motor disability. 32nd Annual Meeting, International Neuropsychology Society, Baltimore, MD, February 4 - 7. Pp. 118-119. Program and Abstract Book: 118-119, 2004.

38. Rizzo M, Stierman L, Skaar N, Dawson JD, Anderson SW, Vecera SP. Effects of a Controlled Auditory-Verbal Distraction Task on Older Driver Vehicle Control. 83rd Annual TRB Meeting, Washington DC, January 11-15. Compendium of Papers on CD-ROM: paper number 04-3866, 2004.
39. Ely JW and Dawson JD. The effect of observational unit size on Poisson goodness-of-fit tests. Biometric Society (ENAR) Annual Meeting, Pittsburgh, Pennsylvania, 2004.
40. Milchak JL, Carter BL, James PA, Dawson JD, Bakris GL, Black HR, Jones DW. Physician adherence to JNC 7 guidelines and blood pressure control. Am Journal of Hypertension 18(5):Suppl 1, p. A190, 2005. Scientific exhibit at the American Society of Hypertension, San Francisco, CA, May 14-18, 2005.
41. Shi Q, Stierman L, Dawson J, and Rizzo M. Defining and assessing endpoints in driving simulator tasks. Joint Statistical Meetings, Minneapolis, Minnesota, 2005.
42. Ely JW, Dawson JD, and Graber MA. The nonrandom occurrence of visits to the emergency department. Annual Meeting of the North American Primary Care Research Group, Quebec City, Canada, October 16, 2005. (Honored as "Distinguished Paper".)
43. Davis PH and Dawson JD. 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, 2005.
44. Dawson JD and Davis PH. Carotid Intimal-Medial Thickness in the Offspring of the Muscatine Cohort: Analysis of Risk Factors P250 and Familial Correlation. Scientific exhibit at AHA 46th Annual Conference on CVD Epidemiology and Prevention, Phoenix, March 2-5, 2006.
45. Dawson JD, Cavanaugh JE, Zamba KD, and Rizzo M. Measuring lateral control in driving studies. Biometric Society (ENAR) Annual Meeting, Tampa, FL, March 26-29, 2006.
46. Rizzo M, Dawson JD, Uc EY, Anderson S, Philippi CL, and Sparks J. Relative rates of visual and cognitive decline in Alzheimer's disease. 2006 Annual Meeting of the Vision Sciences Society, Sarasota, FL, May 9, 2006.
47. Davis PH, Dawson JD, and Sonka M. Aortic intimal-medial thickness is associated with body mass index and systolic blood pressure in normal adolescents. Circulation 112: II-765, 2005.
48. Dawson JD and Davis PH. Carotid intimal-medial thickness in the offspring of the Muscatine cohort: analysis of risk factors and familial correlation. Circulation 113:E361, 2006.
49. Dawson JD, Sonka M, Blecha MB, and Davis PH. Aortic and carotid intimal-medial thickness in adolescents and young adults: the Muscatine offspring study. Circulation 115:E287-E288, 2007.
50. Dawson JD, Cosman JD, Lei Y, Dastrup E, Sparks J, and Rizzo M. Factors affecting vehicular lateral control measures in driving simulators. International Biometric Society (ENAR) Annual Spring Meeting, Atlanta, GA, March 11-14, 2007.
51. Uc EY, Rizzo M, Anderson SW, Sparks J, Shi Q, Rodnitzky RL, Dawson JD. Predicting driver safety in Parkinson's disease: an interim report of an ongoing longitudinal study. 4<sup>th</sup> International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Stevenson, Washington, 2007.

52. Dawson JD, Cosman JD, Lei Y, Dastrup E, Sparks J, and Rizzo M. The relationship between driving behavior and entropy. 4<sup>th</sup> International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Stevenson, Washington, 2007.
53. Dawson JD, Cavanaugh JE, Zamba KD, and Rizzo M. Modeling lateral position and control in driving studies of elderly populations. Joint Statistical Meetings, Salt Lake City, UT, 2007.
54. Ernst ME, Lin W, Dawson JD, Carter BL, and Bergus GR. What average 6-hr SBP optimally predicts 24-hr ABPM in the clinical setting? 23<sup>rd</sup> Annual Scientific Meeting and Exposition. New Orleans, LA, 2008.
55. Dawson JD, Dastrup E, Uc EY, Anderson SW, and Rizzo M. Crashes, moving violations, and driving cessation in early Alzheimer's disease. Annual Meeting of the American Academy of Neurology. Seattle, WA, 2009.
56. Dawson JD, Dastrup E, Johnson AM, Uc EY, and Rizzo M. Trends and challenges in research involving elderly and impaired drivers. International Biometric Society (ENAR) Annual Spring Meeting, New Orleans, LA, March 21-24, 2010.
57. Johnson AM and Dawson JD. Modeling time series data with semi-reflective boundaries with application to lateral control of motor vehicles. International Biometric Society (ENAR) Annual Spring Meeting, New Orleans, LA, March 21-24, 2010.
58. Liu DA, Uc E, Dastrup E, Porter A, Dawson J, and 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. International Biometric Society (ENAR) Annual Spring Meeting, New Orleans, LA, March 21-24, 2010.

#### *Reviews*

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

#### *Other (example, letter to the editor)*

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

Areas of Research Interest

1. Neurology
2. Cardiovascular health
3. Studies of elderly drivers
4. Longitudinal data
5. Statistical methods in epidemiology
6. Medical imaging

Current Projects

1. Time-series models for driving data.
2. Several papers based on the Muscatine cohorts.
3. Baseline public health research in Haiti.
4. Several other papers in the fields of Neurology and Cardiovascular Health.
5. Brain imaging studies of children with oral cleft palates.
6. T-scaled measures of tensor-based MRI

**C. Published Reviews of Scholarship**

None

**D. Grants Received** (ALL grants, least to most recent)

(if you are not the PI, state your role or contributions)

| Title  | % Effort         | Direct Funds (1 <sup>st</sup> Yr) |
|--|------------------|-----------------------------------|
| Source   | % Salary Support | Period of Funding                 |
| P.I.   |                  |                                   |
| Data Management Center for a Placebo Controlled Study of Acetyl-L-Carnitine in Patients with Alzheimer's Disease<br>Sigma-Tau<br>Principal Investigator: Woolson<br>Statistical Consultant: Dawson | 5-10%<br>5-10%   | 1990-98                           |
| National Mycology Epidemiology Survey (Biostatistics Core)<br>Pfizer<br>Principal Investigator: Dawson   | 5-20%<br>5-20%   | \$50,000<br>1993-98               |

|   |            |                             |
|---|------------|-----------------------------|
| Epidemiology of Carotid Artery Atherosclerosis in Youth<br>NIH<br>Principal Investigator: Lauer<br>Investigator: Dawson   | 25%<br>25% | \$387,658<br>1995-00        |
| Occupational Risk of Cytomegalovirus Infection<br>NICHD<br>Principal Investigator: Murph<br>Investigator: Dawson  | 5%<br>5%   | \$184,461<br>1995-00        |
| Process Improvement Grant – Outcomes of Computer-Generated Reminders to Immunize Adults According to National Guidelines<br>College of Medicine<br>Principal Investigator: Doebbeling<br>Statistical Consultant: Dawson | 5%<br>5%   | 1996-97                     |
| Iowa Injury Prevention Research Center - Preliminary Studies of Crash Avoidance Behavior in Drivers with Traumatic Brain Injury<br>Centers for Disease Control<br>Principal Investigator: Rizzo<br>Statistician: Dawson | 1%<br>1%   | \$54,753<br>1996-01         |
| Cancer Center ACS Seed Grant: Prospective Follow-up Assessment of Cervical HPV Detection<br>UIHC<br>Principal Investigator: Levy<br>Investigator: Dawson  | 2%<br>0%   | 1997-98                     |
| GI Barrier Heat Injury: Systemic and Molecular Mechanisms<br>NIH<br>Principal Investigator: Gisolfi, Carl<br>Investigator: Dawson   | 5%<br>5%   | \$225,299<br>1998-2002      |
| Arterial Endothelial Function: An Epidemiologic Study<br>NHLBI<br>Principal Investigator: Lauer, Ronald<br>Investigator: Dawson   | 5%<br>5%   | \$431,605<br>1998-2004      |
| 5R01 AG017177<br>Predictions of Driver Safety in Advancing Age<br>NIA<br>Principal Investigator: Rizzo, Matthew<br>Investigator: Dawson   | 10%<br>10% | \$186,760<br>9/1/99-6/30/11 |

|   |            |                              |
|---|------------|------------------------------|
| Safe and Unsafe Driving in Old Age, Alzheimer's Disease and Stroke<br>NIA<br>Principal Investigator: Rizzo, Matthew<br>Investigator: Dawson   | 10%<br>10% | \$282,763<br>1999-04         |
| Epidemiology of Carotid Artery Atherosclerosis in Youth—II<br>NIH<br>Principal Investigator: Davis, Patricia<br>Investigator: Dawson  | 15%<br>15% | \$420,124<br>2000-04         |
| Observational Studies vs Randomized Controlled Trials<br>AHCPR<br>Principal Investigator: Hartz, Arthur<br>Investigator: Dawson   | 9%<br>9%   | \$255,838<br>9/30/00-8/31/02 |
| The Significance of Central Fatigue Following a Stroke<br>AHA – Heartland Affiliate<br>Principal Investigator: Bilodeau, Martin<br>Investigator: Dawson   | 5%<br>5%   | \$100,000<br>7/01/01-6/30/03 |
| Improving the Research Infrastructure of Family Medicine and General Internal Medicine<br>NIH<br>Principal Investigator: Johnson, Cynda<br>Co-investigator: Dawson  | 4%<br>4%   | \$100,000<br>9/1/00-8/21/03  |
| IPRC-Driver Impairment, Self-Awareness, and Crash Risk in Obstructive Sleep Apean<br>Principal Investigator: Rizzo, Matthew<br>Collaborator: Dawson   | 5%<br>5%   | \$79,203<br>09/01/02-8/31/04 |
| New Investigator Research Award, College of Public Health-College of Medicine, University of Iowa:<br>"Predicting Driver Safety in Parkinson's Disease: A Pilot Study"<br>Principal Investigator: Uc, Ergun<br>Statistical mentor: Dawson | 3%<br>0%   | \$10,000<br>1/1/03-12/31/03  |
| Collaborative Management of Hypertension<br>NIH<br>Principal Investigator: Carter, Barry<br>Co-investigator: Dawson   | 10%<br>10% | \$417,527<br>7/1/03-6/30/06  |
| Improving Adherence to Blood Pressure Guidelines<br>Principal Investigator: Carter, Barry<br>Co-investigator: Dawson  | 10%<br>10% | \$457,810<br>7/1/03-7/31/10  |

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|--|---|--------------------------------|
| Arterial Endothelial Function – An Epidemiological Study<br>Principal Investigator: Burns, Trudy<br>Co-investigator: Dawson                                | 5%<br>5%  | \$509,367<br>7/01/04-5/31/10   |
| Colorectal Cancer Screening Among Patients Attending Rural Family Physicians' Practices<br>Principal Investigator: Levy, Barcey<br>Co-investigator: Dawson | 10%<br>10%  | \$100,000<br>9/9/03-8/31/05    |
| Predicting Driver Safety in Parkinson's Disease<br>Principal Investigator: Uc, Ergun<br>Co-investigator: Dawson  | 10%<br>10%  | \$231,250<br>09/30/03-6/30/08  |
| National Surveillance for Emerging Adenovirus Infections<br>Principal Investigator: Gray, Greg<br>Co-investigator: Dawson                                  | 5-20%<br>5-20%<br>(5% Yrs 1-3, 10%<br>Yr 4, 20% Yr 5) | \$462,419<br>06/15/04-5/31/09  |
| K01 (NIA)<br>Prefrontal Brain Structures, Aging, and Decision-Making<br>Principal Investigator: Denburg, Natalie<br>Statistical Mentor: Dawson             | 1%<br>0%  | \$107,912<br>08/01/04-7/31/09  |
| K23 MH068380 (NIMH)<br>Neuroscience Studies on Early Detection of Schizophrenia<br>Principal Investigator: Ho, Beng-Choon<br>Statistical Mentor: Dawson    | 1%<br>0%  | \$159,884<br>09/01/05-08/31/10 |
| Epidemiology of Carotid Artery Atherosclerosis in Youth—III<br>Principal Investigator: Davis, Patricia<br>Co-Investigator: Dawson                          | 15%<br>15%  | \$425,973<br>09/15/04-12/31/09 |
| 1 T32 GM077973-01<br>Statistics in Microbiology, Infectious Diseases & Bioinformatics<br>Principal Investigator: Chaloner, Kathryn<br>Co-PI: Dawson        | 0 calendar<br>5%<br>0%                                | \$96,396<br>8/1/06-6/30/11     |
| R01-AG026027<br>In-Car Technology to Alert Attention-Impaired Drivers<br>Principal Investigator: Rizzo, Matthew<br>Co-Investigator: Dawson                 | 1.2 calendar<br>10%<br>10%                            | \$395,926<br>05/15/06-11/30/10 |

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|--|----------------------------|--|
| 5R01 NS044930-04<br>Predicting Driver Safety in Parkinson's Disease<br>Principal Investigator: Uc, Ergun Y.<br>Co-Investigator: Dawson   | 1.2 calendar<br>10%<br>10% | \$219,267<br>07/01/06-1/1/10                 |
| Amgen PhD Fellowship (Gift)<br>Director/Fiscal Administrator: Chaloner, Kathryn<br>Co-Director/Academic Administrator: Dawson  | NA                         | \$25,000<br>8/14/06-5/11/09                  |
| Musculoskeletal Plasticity after SCI<br>NIH<br>PI: Richard K. Shields  | .6 calendar<br>5%<br>5%    | \$365,294<br>4/1/07-3/31/08                  |
| 1 R01 HL082711<br>Enhanced Continuity of Pharmacy Care for<br>Cardiovascular or Pulmonary Diseases<br>NIH<br>PI: Barry L. Carter   | .6 calendar<br>5%          | \$475,758<br>6/1/07-3/31/12                  |
| 1R21 HL087761-01 (Nothwehr, Faryle)<br>The Rural Restaurant Healthy Options Program<br>NIH<br>PI: Faryle Nothwehr  | .6 calendar<br>5%<br>5%    | \$146,087<br>4/1/07-3/31/09                  |
| VA Contract<br>IPA: Effect of Aerobic Exercise in Parkinson's<br>Disease<br>US Dept. of Veteran's Affairs, Iowa City VAMC<br>PI for subcontract: Jeffrey D. Dawson<br>PI for entire study: Ergun Y. Uc | 1.08 calendar<br>9%        | \$15,500<br>(subcontract)<br>1/1/09-12/31/11 |
| 1 R01 AR054439-01A2<br>Tensor Scale-Based Methods for Assessment of<br>Trabecular Bone Quality<br>NIH<br>PI: Punam Kumar Saha  | 1.2 calendar<br>10%        | \$266,294<br>6/18/09-5/31/13                 |

**E. Invited Lectures (least to most recent)**

| <u>Year</u> | <u>Title</u>   | <u>Organization</u>   |
|-------------|--|---|
| 1987        | Quality assurance in field studies   | Presented at Brigham Young University Statistics Department Seminar                     |
| 1990        | Using summary statistics to test treatment effect on CD4 counts  | Presented to Harvard AIDS Institute's HIV Disease Working Group                         |
| 1991        | A comparison of summary statistic methods for analyzing repeated measure data in comparative clinical trials | Invited lecture presented to NIAID Workshop on Longitudinal Analysis of Marker Data     |
| 1991        | Repeated measures longitudinal data  | Presented to UIHC Clinical Epidemiology Group<br>The University of Iowa                 |
| 1992        | Using logrank tests of time-to-threshold survival data in repeated measures settings                         | Presented to PMEH Department<br>The University of Iowa                                  |
| 1992        | Intention-to-treat and Missing Data in Clinical Trials   | Presented to PMEH Department<br>The University of Iowa                                  |
| 1993        | Sample uses of Proc IML in SAS   | Presented to PMEH Department<br>The University of Iowa                                  |
| 1993        | Comparing treatment groups on the basis of slopes, areas-under-the-curve, and other summary measures         | Invited lecture presented to Drug Information Association Statistical Workshop          |
| 1993        | Adolescent recall reliability of self-reported smoking behaviors   | Presented with Cindy Hanawalt, as a Research Seminar to PMEH Department, The U. of Iowa |
| 1993        | Biostatistics Orientation  | Presented to PMEH Biostatistics Division, The U. of Iowa                                |
| 1994        | Sample size calculations for repeated measures studies   | Presented to PMEH Department<br>The University of Iowa                                  |
| 1994        | Comparing the Time-to-Threshold and Summary Statistics Methods for Analyzing Repeated Measures               | Invited lecture presented to Iowa State University Department of Statistics             |
| 1994        | Interim Analyses   | Guest Lecture for 63:171<br>The University of Iowa                                      |

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| 1994 | “Two-Sample Comparisons of Repeated Measures Data: Size, Robustness, and Power  | Invited lecture presented to Harvard/Schering-Plough Clinical Trial Workshop, Boston, MA |
| 1994 | Linear Random Effects Models  | Guest Lecture for 63:171<br>The University of Iowa                                       |
| 1994 | The EM Algorithm  | Guest Lecture for 63:171<br>The University of Iowa                                       |
| 1994 | Sample Size and Power of 2-Group Tests of Repeated Measures Data  | Invited lecture presented to APHA  |
| 1994 | Comparing the Time-to-Threshold and Summary Statistic Methods for Analyzing Repeated Measures                                     | Invited lecture presented to Johns Hopkins University                                    |
| 1995 | Comparing likelihood-based and nonparametric longitudinal methods in the presence of informative and noninformative missing data  | Invited lecture presented at Biometric Society (ENAR) Annual Meeting                     |
| 1996 | Interim Analyses  | Guest Lecture for 63:289<br>The University of Iowa                                       |
| 1996 | Biostatistics Orientation   | Presented to PMEH Biostatistics Division, The U. of Iowa                                 |
| 1996 | Comparing Treatment Groups on the Basis of Summary Measures   | Invited lecture presented to Merck & Co.   |
| 1997 | Short Course in Biostatistics   | Presented to SangStat, Ltd.  |
| 1997 | Adjusting for Baseline Differences in Observation Studies   | Presented with Han S-H to Biostatistics Division, The University of Iowa                 |
| 1997 | Research Skills Workshop Series (6-hr short course)   | Presented to new investigators in the health sciences, Univ. of Iowa                     |
| 1998 | Research Skills Workshop Series (6-hr short course)   | Presented to new investigators in the health sciences, Univ. of Iowa                     |
| 1999 | Statistical Analysis of Region VII 1997 Chlamydia screening data  | Presented at Infertility Prevention Project annual meeting                               |
| 1999 | Stratified Tests of Summary Measures: A Non-Iterative Approach for Incorporating Missing Data in Longitudinal Comparative Studies | Invited lecture presented at Biopharmaceutical Applied Statistics Symposium              |

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| 2000 | Statistic Issues and Errors in the Design, Implementation, Analysis, Presentation, and Review of Scientific Research | Presented to Department of Family Medicine, The University of Iowa   |
| 2000 | Equivalence (Similarity) Studies   | Two guest lectures in 63:290<br>The University of Iowa   |
| 2000 | Avoiding Common Statistical Errors When Conducting Scientific Research   | Presented to College of Dentistry<br>The University of Iowa  |
| 2000 | Longitudinal Repeated Measures Data: Multivariate Representations Versus Random Effect Models                        | Invited lecture at BYU Summer Institute of Applied Statistics  |
| 2000 | Stratification Due to Missing Data in Longitudinal Studies   | Invited lecture at the Utah Chapter of the American Statistical Association  |
| 2001 | Common Statistical Errors and Pitfalls in Bioscience Research  | Presented to BYU Statistics Dept. Faculty and Students   |
| 2001 | Winter Faculty Enrichment Series: Survival Analysis  | Series of 5 Lectures presented to BYU Statistics Dept. Faculty   |
| 2001 | Approaches for Analyzing Bounded Data  | Presented to Biostatistics Dept.<br>University of Iowa   |
| 2002 | Equivalence Studies  | Guest lecture in 171:266,<br>University of Iowa  |
| 2002 | Hypothesis Testing and Sample Size Estimation  | Guest lecture for Workshop in Patient-Oriented Research, University of Iowa  |
| 2003 | Equivalence Studies  | Two guest lectures in 171:266,<br>University of Iowa   |
| 2003 | Hypothesis Testing and Sample Size Estimation  | Guest lecture for Workshop in Patient-Oriented Research, University of Iowa  |
| 2003 | Quantitative Analytical Methods in Translation Research  | Invited lecture to workshop, "Advancing Quality Care Through Translation Research," Coralville, IA (Sponsored by Agency for Healthcare Research and Quality) |
| 2004 | Overview of Biostatistics  | Guest lecture in 170:101, University of Iowa   |
| 2004 | Multiple Linear Regression, Two-way ANOVA  | Two guest lectures in 171:162,<br>University of Iowa   |

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|------|---|--|
| 2005 | Variability, Independence, and Sample Size Issues in Medical Research | Two-hour invited presentation to Department of Internal Medicine, University of Iowa               |
| 2005 | Pendergast JF and Dawson JD. Ethical Guidelines for Biostatisticians  | Biostatistics Seminar, University of Iowa  |
| 2005 | Paired t-tests, One-way ANOVA   | Guest lecture in 171:201, University of Iowa   |
| 2006 | Common Statistical Errors in Clinical and Laboratory Research         | Departments of Biology and Psychology, Drake University  |
| 2007 | Important Statistical Issues in Research                              | Two-hour invited presentation to Department of Internal Medicine, University of Iowa               |
| 2007 | Biological Growth Models and Nonlinear Regression                     | Presentation to Biostatistics students receiving training in Microbiology, University of Iowa      |
| 2008 | Job Interview Skills for Biostatisticians                             | Presentation to Biostatistics Student Academic Club, University of Iowa                            |
| 2008 | Non-parametric and Chi-square Tests                                   | Guest lecture to Summer Research Students in the Department of Family Medicine, University of Iowa |
| 2008 | Using Simulators and Instrumented Vehicles to Study High-risk Drivers | Presentation to Statistics Department faculty and students, Brigham Young University               |
| 2008 | Applied and Methodological Work in Driving Studies                    | Presentation to Biostatistics Student Organization Academic Club, University of Iowa               |
| 2009 | Overview of Rehabilitation and Range-of-Motion Exercises              | Presentations to Caregivers Class of Healing hands for Haiti, Port-au-Prince, Haiti                |
| 2009 | Statistical Issues in Research: Design and Analysis                   | Presented to Neurology Department, University of Iowa  |
| 2009 | Missing and Sparse Data and Other Issues of Bias                      | Presented to Neurology Department, University of Iowa  |
| 2009 | An Introduction to the Field of Biostatistics                         | Presented to Math Club, University of Iowa   |

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| 2010 | Thinking Outside the Box-Plot: Outreach in Haiti and Other Non-traditional Roles for Biostatisticians | Biostatistics Seminar, University of Iowa                                      |
| 2010 | Trends and Challenges in Research Involving Elderly and Impaired Drivers                              | Invited Presentation for Topic Contributed Section, ENAR 2010, New Orleans, LA |

*Conference Presentations/Posters*

| <u>Year</u> | <u>Title</u>  | <u>Organization</u>                                    |
|-------------|---|--|
| 1992        | Conditional and unconditional summary statistic tests of repeated measures data (Dawson JD)                           | Joint Statistical Meetings                             |
| 1993        | Sample size calculations based on slopes and other summary statistics (Dawson JD)                                     | Joint Statistical Meetings                             |
| 1996        | Measuring the Association Between Genotypes and Continuous Variables in Subsamples of Available Specimens (Dawson JD) | Joint Statistical Meetings                             |
| 1997        | Regression to the Mean and Lord's Paradox in Observational Studies (Dawson JD and Han S-H)                            | Joint Statistical Meetings                             |
| 1999        | Using AUC calculations to describe the cumulative load of risk factors (Dawson JD, Davis PH, and Lauer RM)            | Joint Statistical Meetings                             |
| 1999        | Using AUC calculations to describe the cumulative load of risk factors (Dawson JD, Davis PH, and Lauer RM)            | Biostatistics Department, University of Iowa           |
| 2001        | Multivariable Approaches for Analyzing Bounded Data   | Joint Statistical Meetings                             |
| 2001        | Approaches for Analyzing Bounded Data (Dawson JD and Hilton SC)   | Biostatistics Department, University of Iowa           |
| 2004        | The effect of observational unit size on Poisson goodness-of-fit tests (Dawson JD and Ely JW)                         | International Biometric Society (ENAR) Spring Meetings |

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| 2005 | Defining and Assessing Endpoints in Driving Simulator Tasks (Shi Q, Stierman LM, Dawson JD, and Rizzo M)   | Contributing Author, Joint Statistical Meetings; Minneapolis, MN   |
| 2006 | Carotid Intimal-Medial Thickness in the Offspring of the Muscatine Cohort: Analysis of Risk Factors P250 and Familial Correlation (Dawson JD and Davis PH)   | AHA 46 <sup>th</sup> Annual Conference on CVD Epidemiology; Phoenix, AZ  |
| 2006 | Measuring lateral control in driving studies (Dawson JD, Cavanaugh JE, Zamba KD, and Rizzo M)  | Biometric Society (ENAR) Annual Meeting, Tampa, FL.  |
| 2006 | Defining and Assessing Endpoint in Driving Simulator Tasks (Shi Q, Stierman LM, Dawson JD, and Rizzo M)  | University of Iowa Research Week (Sponsored by College of Public Health, College of Medicine, and VA Hospital)                             |
| 2006 | Maximizing the statistical assessment of antibody titer data: the proportional odds model (Capuano AW, Dawson JD, and Gray GC) (Presented by Capuano AW)   | University of Iowa Research Week (Sponsored by College of Public Health, College of Medicine, and VA Hospital)                             |
| 2006 | National surveillance for emerging adenovirus infections (Gray GC, McCarthy T, LeBeck M, Erdman DD, Schnurr DP, Russell KL, Kajon AE, Dawson JD, Doern GV, and Crawford-Miksza LK) (Presented by McCarthy T) | University of Iowa Research Week (Sponsored by College of Public Health, College of Medicine, and VA Hospital)                             |
| 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, and Davis PH)                                      | AHA 46 <sup>th</sup> Annual Conference on CVD Epidemiology; Orlando, FL  |
| 2007 | Factors Affecting Vehicular Lateral Control Measures in Driving Simulators (Dawson JD, Cosman JD, Lei Y, Dastrup E, Sparks J, and Rizzo M)   | Biometric Society (ENAR) Annual Meeting; Atlanta, GA   |
| 2007 | The Relationship Between Driving Behavior and Entropy (Dawson JD, Cosman JD, Lei Y, Dastrup E, Sparks J, and Rizzo M)  | 4 <sup>th</sup> International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design; Stevenson, Washington |

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| 2007 | Modeling Lateral Position and Control in Driving Studies of Elderly Populations (Dawson JD, Cavanaugh JE, Zamba KD, and Rizzo M)                                 | Joint Statistical Meetings; Salt Lake City, UT  |
| 2008 | Aortic and Carotid Intimal-Medial Thickness in Adolescents and Young Adults: Updated Results from the Muscatine Offspring Study (Dawson JD, Lin W, and Davis PH) | Hawaii International Conference on Statistics, Mathematics, and Related Fields; Honolulu, HI                                      |
| 2008 | Assessment of Comparability, Reliability, and Predictability in Medical Studies (Dawson JD, Lin W, and Davis PH)   | Hawaii International Conference on Statistics, Mathematics, and Related Fields; Honolulu, HI                                      |
| 2008 | Modeling The Variability Of Lateral Vehicular Control (Dawson JD, Cavanaugh JE, Zamba KD, and Rizzo M)   | 10th International Conference on Applications of Advanced Technologies in Transportation; Athens, Greece                          |
| 2008 | Relationship Between Cognition and Driving Safety in Alzheimer's Disease (Dawson JD, Anderson SW, Uc EY, Dastrup E, and Rizzo M)                                 | Annual Meeting of the American Neurological Association; Salt Lake City, UT   |
| 2009 | Crashes, Moving Violations, and Driving Cessation in Early Alzheimer's Disease (Dawson JD, Dastrup E, Uc EU, Anderson SW, and Rizzo M)                           | Annual Meeting of the American Academy of Neurology; Seattle, WA  |
| 2010 | Nested and Block Designs in Multi-Clinic Intervention Studies (Dawson JD, Ardery G, Carter BL, and Lesh SM)  | 3 <sup>rd</sup> Annual NIH Conference on the Science of Dissemination and Implementation: Methods and measurement; Washington, DC |

*Visiting Professorships*

| <u>Year</u> | <u>Location</u>                     |
|-------------|-------------------------------------|
| 2000-2001   | Brigham Young University, Provo, UT |

**F. Pending Information** (grant proposals, book contracts, submitted publications etc.)

**Grants**

| Title<br>Source<br>P.I.  | % Effort<br>% Salary Support | Direct Funds (1 <sup>st</sup> yr)<br>Period of Funding |
|--|------------------------------|--|
| PAP Adherence and Real-World Driving Safety in OSA<br>NIH<br>PI: Matthew Rizzo     | 1.2 calendar<br>10%          | \$599,909.72<br>7/1/10-6/30/14                         |
| Driving Rehabilitation in Parkinson's Disease<br>VA RX000170-01<br>PI: Ergun Y. Uc | 1.2 calendar                 | \$75,000.00<br>8/1/10-7/31/12                          |

**Publications** (submitted articles, including name of journal submitted to. In-press articles would go under publications section)

1. Kao J, Dawson J, Murray J, Dagle J, Berends S, Gillen S, Bell E. Possible roles of bilirubin and breast milk in protection against retinopathy of prematurity. Submitted to Paediatric and Perinatal Epidemiology, 2010. (*Role: Supervision of data management and statistical analysis; editing of manuscript*)

**IV. SERVICE**

**A. Offices/appointments held in professional organizations** (least to most recent)

1. *Editorships*  

| <u>Year</u> | <u>Publication</u> |
|-------------|--------------------|
| None        |                    |
2. *Review Panels*  

| <u>Year</u> | <u>Title</u>   |
|-------------|--|
| 1991        | Reviewed articles for <u>JASA</u> and <u>Am Journal of Epi</u>   |
| 1991        | Reviewed textbook <u>Principles of Biostatistics</u> , by Pagano and Gauvreau  |
| 1992        | Reviewed articles for <u>Am Journal of Epi</u> and <u>Am Journal of Public Health</u>  |
| 1993        | Reviewed articles for <u>Am Journal of Epi</u> , <u>Am Journal of Public Health</u> , <u>The Anatomical Record</u> , and <u>Am Journal of Medicine</u> |

- 1993 Reviewer of Statistical Biostatistics Doctorate Programs for the National Research Council
- 1994 Reviewed articles for Am Journal of Epi, Am Journal of Medicine, and Statistics in Medicine
- 1995 Reviewed textbook, Health and Numbers: Basic Biostatistical Methods, by Le and Boen
- 1995 Reviewed articles for Am Journal of Epi, JOSPT, Am Journal of Public Health, Biometrics, and Journal of AIDS
- 1996 Reviewed articles for Biometrics, Controlled Clinical Trials, JOSPT, Am Journal of Public Health, Am Journal of Psychiatry, and Statistics in Medicine
- 1997 Reviewed articles for JOSPT, Am Journal of Epi, Statistics in Medicine, and Journal of Statistical Planning & Inference
- 1997 Reviewer of NIH-NAIDS-DAIDS Statistical and Clinical Coordinating Center applications
- 1998 Reviewed articles for Regional Anesthesia and Pain Medicine, Statistics in Medicine, JOSPT, and American Journal of Epidemiology
- 1998 Reviewed textbook submission, Statistical Methods, by Rasch and Verdooren, for Springer, Inc.
- 1998 NIH-NAIDS-DAIDS Study Section Committee for statistical and clinical coordinating center applications
- 1999 Reviewed articles for Regional Anesthesia and Pain Medicine, Statistics in Medicine, American Journal of Epidemiology, Communications in Statistics, and American Journal of Psychiatry
- 1999 Reviewed textbook proposal, Introduction to Biostatistics, for Benjamin/Cummings
- 1999-2000 NIH-NHLBI special emphasis panel
- 2000 Reviewed articles for Regional Anesthesia and Pain Medicine, American Journal of Epidemiology, and Statistics in Medicine
- 2001 Reviewed articles for Regional Anesthesia and Pain Medicine, American Journal of Epidemiology, Statistics in Medicine, and Bold Face Editors

2002 Reviewed articles for Regional Anesthesia and Pain Medicine, American Journal of Epidemiology, Statistics in Medicine, American Journal of Psychiatry, Circulation, Biometrics, and Controlled Clinical Trials

2003 Reviewed articles for Statistics in Medicine, American Journal of Psychiatry, Biometrics, American Journal of Epidemiology, JAMA, and JASA

2003 NIH-NHLBI review panel for peripheral artery disease grants

2003- Data Safety and Monitoring Board member for stroke clinical trial

2004 NIH review panel for Clinical & Statistical Coordinating Center applications

2004 Reviewed articles for Arteriosclerosis, Thrombosis, and Vascular Biology and American Journal of Psychiatry

2004-09 Reviewer for applications for National Medical Research Council grants, Singapore

2005 Reviewed article for JASA

2005 NIH review panel for SCOR in Hemostatic and Thrombotic Diseases

2005- Chair, Data Safety and Monitoring Board for dermatology clinical trial

2006 Reviewed article for Statistics in Medicine, Circulation, Communications in Statistics, Computational Statistics and Data Analysis, and Statistical Papers

2006 NIH review panel for applications studying chronic kidney disease.

2006- Editorial Board for American Journal of Preventive Medicine

2007 Reviewer for Journal of Statistical Computing and Simulation; Statistics in Medicine, Circulation, and The American Statistician

2007 Reviewer for applications for Canada Foundation for Innovation

2008 Reviewer for Circulation, Statistics in Medicine

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|------|--|
| 2008 | Member, Data Safety and Monitoring Board for cancer and driving clinical trial (pending funding)                               |
| 2009 | Member, Scientific Review Committee for Driving Assessment 2009 conference, held in Big Sky, Montana                           |
| 2009 | Reviewer for <u>Circulation</u>  |
| 2009 | External reviewer for tenure candidacy of college of medicine faculty member, University of California                         |
| 2009 | Member, U.S. Department of Transportation medical expert review panel on driving licensure regulations for interstate commerce |
| 2010 | Member of NCI focus panel on the HINTS database  |
| 2010 | Reviewer for <u>Circulation</u> , <u>Journal of the American Geriatric Society</u>   |

*Departmental, Collegiate, and University Service Positions*

| <u>Year</u> | <u>Position</u>   |
|-------------|---|
| 1991-1999   | Department of Preventive Medicine Curriculum Committee            |
| 1992        | Chair, Biostatistics Ph.D. Specialty Examination Committee        |
| 1993        | Biostatistics Ph.D. Comprehensive Examination Standards Committee |
| 1993-95     | Family Practice Research Development Fund Review Committee        |
| 1993-94     | Chair, Biostatistics Seminars                                     |
| 1994-98     | Faculty Senate Member   |
| 1994-95     | Chair, Biostatistics Ph.D. Comprehensive Exam Committee           |
| 1995-98     | Department of Preventive Medicine M.S. Exam Committee             |
| 1996-97     | Chair, Biostatistics Seminars                                     |
| 1996-97     | Department of Preventive Medicine Seminar Committee               |
| 1996-2000   | Faculty Advisor, UI Biostatistics Student Organization            |
| 1997-98     | Chair, Biostatistics Ph.D. Comprehensive Exam Committee           |

|           |  |
|-----------|--|
| 1998-2005 | Member, Human Subjects Committee (Institutional Review Board)      |
| 1999-2000 | Member, College of Public Health Curriculum Committee              |
| 2000      | Member, Biostatistics Self-Study Committee                         |
| 2001-02   | Chair, Biostatistics Seminar Committee                             |
| 2001-02   | Biostatistics Search Committee, member                             |
| 2001-04   | Member, College of Public Health MPH Advisory Committee            |
| 2002-03   | Biostatistics Admissions Committee, member                         |
| 2002-03   | Biostatistics Web Committee, Chair                                 |
| 2002-03   | Chair (Fall), Biostatistics Masters Examination Committee          |
| 2002-09   | Member, Biostatistics Admissions (and Recruitment) Committee       |
| 2002-03   | Member, Review Committee for the Department of Epidemiology        |
| 2003      | Biostatistics Masters Examination Committee (Chair 2003-04)        |
| 2004-09   | Biostatistics Curriculum Committee (Chair 2004-06)                 |
| 2004-06   | Biostatistics Student Awards Committee (Chair 2005-06)             |
| 2005-09   | Biostatistics Administrative Committee, member                     |
| 2006      | Member, Review Committee for the Program in Public Health Genetics |
| 2006-07   | Biostatistics Masters Examination Committee (Spring)               |
| 2006-07   | Department MPH Committee (Chair)                                   |
| 2006-09   | Biostatistics Masters and PhD Curriculum Committee (Chair)         |
| 2006-09   | Biostatistics Student Awards Committee (Chair)                     |
| 2006-08   | Biostatistics Self-Study Report Committee                          |
| 2007-10   | Member, CPH Faculty Council  |
| 2007-08   | Co-Chair, CPH Faculty Council                                      |

|         |   |
|---------|---|
| 2007-10 | Biostatistics MS Exam Committee           |
| 2007-10 | Biostatistics MPH Committee (Chair)       |
| 2008-09 | Chair, CPH Faculty Council                |
| 2009-10 | Chair, CPH Promotion and Tenure Committee |

*Professional Organization Membership & Leadership (State and/or National)*

| <u>Year</u> | <u>Organization</u>   | <u>Position</u> |
|-------------|---|-----------------|
| 1987-       | American Statistical Association  | Member          |
| 1992-       | International Biometric Society (ENAR)  | Member          |
| 1993-       | Drug Information Association  | Member          |
| 1996        | National Institutes of Health General<br>Clinical Research Center Site Visit Team                     | Member          |
| 1996        | National Cancer Institute Grant Review<br>Panel   | Member          |
| 1997        | American Public Health Association  | Member          |
| 1997        | American Statistical Association –<br>Biopharmaceutical Section, Annual Joint<br>Statistical Meetings | Session chair   |
| 2000-       | Society for Clinical Trials   | Member          |
| 2005        | Joint Statistical Meetings  | Session chair   |
| 2006        | International Biometric Society (ENAR) –<br>Spring Meetings   | Session chair   |
| 2008        | Hawaii International Conference on<br>Statistics, Mathematics, and Related<br>Fields                  | Session chair   |

*Relevant Community Involvement*

| <u>Year</u> | <u>Activity</u>   |
|-------------|---|
| 2004        | Completed Youth Protection Training; Hawkeye Council of BSA                                   |
| 2004-2007   | Several meetings with Iowa DOT officials to discuss strategies<br>for improving driver safety |

|      |  |
|------|--|
| 2008 | Neighborhood liaison and host for local flood clean-up efforts.          |
| 2008 | Helping local high school student with epidemiological research project. |
| 2009 | Public health outreach clinics in Haiti.                                 |

*Other Professional Service*

1. *Organize Conference, Paper Session, etc.*

| <u>Year</u> | <u>Title</u>   |
|-------------|--|
| 2005        | Statistical Issues in Driving Studies (Topic Contributed Session), organizer, Joint Statistical Meetings, August 2005, Minneapolis, MN |

2. *State or National Committees*

| <u>Year</u> | <u>Title</u>   |
|-------------|--|
| 2004        | Accredited Schools of Public Health, member of focus group on curriculum review for women's health |

3. *Professional Consulting*

| <u>Year</u> | <u>Organization</u>  | <u>Role</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             |
| 2004-07     | DMV International, Delhi, NY   | Statistical Consultant             |
| 2006        | Alzheimer's Disease Research Centers of California (USC, UC-Davis, & UCSF) | Statistical Consultant             |
| 2008-10     | Healing Hands for Haiti International Foundation, Port-Au-Prince, Haiti    | Statistical Consultant; Translator |

**B. Clinical Assignments since Last Promotion**

N/A