BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Dawson, Jeffrey	POSITION TITLE Professor
eRA COMMONS USER NAME (credential, e.g., agency login) DAWSONJD	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	MM/YY	FIELD OF STUDY
Brigham Young University, Provo, UT	B.S.	1987	Statistics (Mathematics)
Harvard University, Boston, MA	Sc.D.	1991	Biostatistics

A. Personal Statement

B. Positions and Honors
Professional Experience
1987-91 Teaching Assistant, Harvard University, Boston, MA
1988-89 Research Assistant, Dana-Farber Cancer Institute and Harvard University, Boston, MA
1991-97 Assistant Professor, Department of Preventive Medicine and Environmental Health, University of Iowa, Iowa City, IA
1997-99 Associate Professor, Department of Preventive Medicine and Environmental Health, University of Iowa, Iowa City, IA
1999-09 Associate Professor, Department of Biostatistics, College of Public Health (established 1999), University of Iowa, Iowa City, IA
2003-12 Director of Graduate Studies, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, IA
2009-   Professor, Department of Biostatistics, College of Public Health, University of Iowa, Iowa City, IA
2011-   Associate Dean for Faculty Affairs, College of Public Health, University of Iowa, Iowa City, IA

Honors
1987   Phi Kappa Phi Honor Society
1987   B.S., Graduated Magna Cum Laude and Received Departmental Award
1993   University of Iowa College of Medicine Research Committee Award
1994   Elected to Faculty Senate
1999-2001 Faculty Mentor for Medical Science Training Program
2004   College of Public Health Faculty Service Award

C. Selected peer-reviewed publications (selected from 132 peer-reviewed publications)

1. van der Plas E, Caspell CJ, Aerts AM, Tsalikian E, Richman LC, Dawson JD, Nopoulos P. (2012) Height, BMI, and pituitary volumne in individuals with and without isolated cleft lip and/or palate. *Pediatric Research, 71*(5), 612-618. PMC: 22322386, PMID: PMC3637911

2. Anderson SW, Aksan N, Dawson JD, Uc EY, Johnson AM, Rizzo M. (2012) Neuropsychological assessment of driving safety risk in older adults with and without neurologic disease. *Journal of Clinical and Experimental Neuropsychology, 34*(9), 895-905. PMID: 22943767

3. Emerson JL, Johnson AM, Dawson JD, Uc EY, Anderson SW, Rizzo M. (2012) Predictors of driving outcomes in advancing age *Psychology and Aging, 27*(3), 550-559. PMC: PMC3360997, PMID: 22182364

4. Chen K, Anderson SW, Rusch ML, Aksan NS, Dawson JD, Rizzo M. (2013) "Choking under Pressure" in Older Drivers *Proceedings of Driving Assessment 2013: The Seventh International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design*.

5. Anderegg SV, DeMik DE, Carter BL, Dawson JD, Farris K, Shelsky C, Kaboli P. (2013) Acceptance of recommendations by inpatient pharmacy case managers: Unintended consequences of hospitalist and specialist care. *Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy, 33*(1), 11-21. PMID: 23307540

6. Schall M, Rusch ML, Lee JD, Dawson JD, Thomas G, Askan N, Rizzo M. (2013) Augmented reality cues and elderly driver hazard perception *Human Factors, 55*(3), 643-658. PMID: 23829037

7. Aksan N, Schall M, Anderson S, Dawson JD, Tippin J, Rizzo M. (2013) Can Intermittentent Video Sampling Capture Individual Differences in Naturalistic Driving? *Proceedings of Driving Assessment 2013: The Seventh International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design*.

8. Rusch ML, Schall Jr. MC, Gavin P, Lee JD, Dawson JD, Vecera S, Rizzo M. (2013) Directing driver attention with augmented reality cues *Transportation Research Part F: Traffic Psychology and Behaviour, 16*(1), 127-137.

9. Yu L, Dawson JD, Aksan NS, Tippin J, Rizzo M. (2013) Effects of Environmental Factors on Naturalistic Driving in Obstructive Sleep Apnea *Proceedings of Driving Assessment 2013: The Seventh International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design*.

10. Aksan N, Dawson JD, Emerson J, Yu L, Uc EY, Anderson S, Rizzo M. (2013) Naturalistic distraction and driving safety in older drivers *Human Factors, 55*(4), 841-855. PMID: 23964422

11. Dawson JD, Yu L, Chen K, Rusch M, Johnson AM, Aksan NS, Sunda T, Hiramatsu M, Anderson SW, Rizzo M. (2013) Neuropsychological Predictors of Safety in Urban Left-Turn Scenarios *Proceedings of Driving Assessment 2013: The Seventh International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design*.

12. Nothwehr F, Snetselaar LG, Dawson JD, Schultz U. (2013) Promoting healthy choices in non-chain restaurants: Effects of a simple cue to customers. *Health Promotion Practice, 14*(1), 132-138. PMID: 23048009

13. McDonald AD, Lee JD, Aksan NS, Dawson JD, Tippin J, Rizzo M. (2013) The language of driving: Advantages and applications of symbolic data reduction for analysis of naturalistic driving data *Transportation Research Record: Journal of the Transporation Research Board, 2392*, 22-30.

14. Capuano AW, Dawson JD. (2013) The trend odds model for ordinal data. *Statistics in Medicne, 32*(13), 2250-2261. PMC: PMC3650098, PMID: 23225520

15. Belfi AM, Conrad AL, Dawson JD, Nopoulos P. (2014) Masculinity/femininity predicts brain volumes in normal healthy children *Developmental Neuropsychology, 39*(1), 25-36. PMID: 24405182

D. Research Support
Ongoing Research Support

5 R01 HD062507 (Shields, Richard)   07/24/10-05/31/15
NIH
Mechanical Stress and Skeletal Plasticity after Spinal
Cord Injury in Humans
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.

5 R01 HL091917 (Rizzo, Matthew)   06/01/10-03/31/15
NIH
PAP Adherence and Real-World Driving Safety in OSA
The broad goal of this research project is to quantify real-world driving behavior in obstructive sleep apnea (OSA) and to determine 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.

No Contract # (Rizzo, Matthew)   01/1/13-06/30/15
Toyota Motor Engineering & Manufacturing
Measuring Unintended Consequences of In-Vehicle Technologies on Older Driver Safety
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.

5 T 15 HL097622 (Chaloner, Kathryn)   08/20/09-02/28/16
NIH
Iowa Summer Institute in Biostatistics (ISIB)
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.

2 R01 AG017177 (Rizzo, Matthew)   06/01/13-05/31/18
NIH
Predictions of Driver Safety in Advancing Age
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.

5 R01 HL116311 (Carter, Barry)   08/08/13-07/31/18
NIH
Improved Cardiovascular Risk Reduction to Enhance Rural Primary Care: I-CARE Trial
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.