

**CURRICULUM VITAE**  
**MATTHEW RIZZO, M.D.**  
**August 19, 2008**

**Education and Professional History**

**Education**

- 1982-85 Fellowship, Behavioral Neurology and Cognitive Neuroscience, University of Iowa College of Medicine
- 1982-83 Fellow Associate in Neurology, University of Iowa College of Medicine
- 1980-83 Neurology Residency, University of Iowa College of Medicine
- 1979-80 Internal Medicine Internship, University of Iowa College of Medicine
- 1979 M.D., Johns Hopkins University School of Medicine
- 1975 A.B., Columbia University

**Certification and Licensure**

- 1985 American Board of Psychiatry and Neurology certification, IA # [REDACTED]  
Permanent, # [REDACTED]
- 1979 National Board of Medical Examiners

**Academic Appointments**

- 2007 Vice Chair, Translational and Clinical Research, Department of Neurology, University of Iowa Roy J. and Lucille A. Carver College of Medicine
- 2002 Director, Division of Neuroergonomics, Department of Neurology, University of Iowa Roy J. and Lucille A. Carver College of Medicine
- 1999 Professor, Public Policy Center, University of Iowa
- 1996 Professor of Mechanical and Industrial Engineering, University of Iowa College of Engineering
- 1996 Professor of Neurology, University of Iowa College of Medicine
- 1996 Faculty, Public Policy Center, University of Iowa
- 1994 Faculty, Injury Prevention Research Center, University of Iowa
- 1993 Associate Professor Industrial Engineering, University of Iowa College

of Engineering

- 1990 Associate Professor of Neurology, tenured, University of Iowa College of Medicine
- 1987 Faculty, Neurosciences Program, University of Iowa College of Medicine
- 1985 Assistant Professor of Neurology, University of Iowa College of Medicine

### **Current Professional Positions/Projects - The University of Iowa**

Director, SIREN (Simulator for Research in Ergonomics and Neuroscience) Laboratory, ARGOS (Automobile for Research in Ergonomics and Safety), NIRVANA (Nissan-Iowa Instrumented Vehicle for Ergonomics and Neuroscience) and NEXTEP (Neuroergonomics Experimental People Tracker), Department of Neurology, University of Iowa

Director, Visual Function Laboratory, Department of Neurology, University of Iowa

Senior faculty member, Division of Behavioral Neurology and Cognitive Neuroscience, Department of Neurology, University of Iowa

Faculty member, Interdisciplinary Neuroscience Graduate Program

Head, Faculty Review Committee, Neuroscience PhD Program, University of Iowa

Director, Neurology and Public Policy Center Faculty Recruitment Committee, University of Iowa

### **Professional Positions/Projects - Local/Regional/National/International**

Course Director: "Hot Topics in Neuro-ophthalmology". American Academy of Neurology Annual Meeting, Boston, May 5, 2007.

Member, Advisory Board, U.S. Federal Drug Administration Advisory Committee for Peripheral Nervous System and Central Nervous System Drugs, 2006-

Federal Motor Carrier Safety Administration (FMCSA) Medical Review Board, 2005- (appointed by the US Secretary of Transportation)

American Association of Motor Vehicle Administrators (AAMVA) Driver Fitness Working Group (DFWG); Chair, Medical Review Task Group (MRTG) on Neurologic and Cognitive Disorders.

Organizer, Fourth International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Stevenson, Washington, July 9-15, 2007.

Consultant, Province of British Columbia and Canadian government. Driving and Function Forum. Vancouver, British Columbia, June 16, 2006.

Organizer, Third International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Rockport, Maine, June 27-30, 2005.

Member, Scientific Committee, Third International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design. Rockport, Maine, June 27-30, 2005.

Consultant, Monash University, Accident Research Center/Victorian Institute for Forensic Medicine, Australian Government, 2003- present.

Organizer, Second International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Park City, Utah, July 21-24, 2003.

Member, Scientific Committee, Second International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design. Park City, Utah, July 21-24, 2003.

CARSS (Coordinated Assessment of Roadway Simulator Scenarios) for development of standard international simulator scenarios - Co-Founder of with Dr. Donald Fisher, University of Massachusetts at Amherst.

Founder and Organizer, International Simulator Users Group (SUG). First Meeting: Park City, Utah, July 22, 2003. Second Meeting: Washington, DC, January 13, 2004. Third Meeting: Rockport, Maine, June 27, 2005. Fourth Meeting: Washington, DC, January 2006. Fifth Meeting: Washington, DC, January 2007. Sixth Meeting: New York, NY, September 2008.

<http://www.engineering.uiowa.edu/simusers/>

American Academy of Neurology Organizer (Member, Patient Safety Workgroup, Practice Committee). 2nd Annual Patient Safety Colloquium. American Academy of Neurology 55th Annual Meeting, Honolulu, Hawaii, March 30, 2003.

Organizer (Member, Patient Safety Workgroup, Practice Committee). 1<sup>st</sup> Annual Patient Safety Colloquium: To harm is preventable. American Academy of Neurology 54<sup>th</sup> Annual Meeting, Denver, Colorado, April 14, 2002.

Development Executive and Chief Science Advisor to Engel Entertainment, New York, NY., Producing science and medicine documentaries for major television venues (including PBS, National Geographic Channel, The History Channel, Discovery Channel, Nova and other broadcasters). 2002- present

Founder and Organizer, Driving Assessment 2001, First International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Aspen, CO, August 14-17, 2001. Second International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Park City, UT, July 21 – 24, 2003. Third International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Rockport, ME, June 27-30, 2005.

Member, Scientific Committee, 1st International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Aspen, CO, August 14-17, 2001. 2nd International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Park City, UT, July 21-24, 2003. 3rd International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Rockport, ME, June 27-30, 2005. 4th International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Stevenson, WA, July 9-13, 2006.

Organizer, Collaboratory for Driving Simulator Research, University of Iowa, Iowa City, IA, February 22-23, 2001.

American Academy of Neurology Quality Standard Subcommittee Review - *Behavioral Neurology*. Minor closed head injury, 1997.

Advisor to Swedish Government, Vägverket/National Road Administration on Licensing Procedures in Aging and Cognitively Impaired Drivers, 1994.

Organizer, National Conference on Health Research Using Advanced Driving Simulation for University of Iowa Injury Prevention Center and University of Iowa Center for Computer Aided Design, 1994.

Organizer, Behavior Course. North American Neuro-Ophthalmology Society, 1994.

Faculty, American Academy of Neurology:

- Course in Behavioral Neurology (1990)
- Course in Neuro-ophthalmology (1993)
- Course in Vision and the Brain: A clinician's guide (1997)
- Course in Legislative Affairs and Advocacy Training (1998-2005)
- Course in Patient Safety (2002-2003)

Organizer, Legislative Affairs Course for American Academy of Neurology.

Consultant, [REDACTED], 1997-present

## **Honors and Awards**

Committee on Human-Systems Integration, National Academy of Sciences, elected 2007.

Paul, A., Boyle, L., Boer, E. R., Tippin, J., Rizzo, M. Honda Outstanding Student Paper Award (Honorable Mention). Steering Entropy changes as a Function of Microsleeps. Proceedings of Driving Assessment 2005: The Second International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Rockport, ME, June 27-30, 2005. Iowa City, Iowa: The University of Iowa.

Co-recipient. [Uc EY, Rizzo M, Shi Q, Anderson SW, Rodnitzky RL, Dawson JD]. Faculty Award winner: Research Week – Driver Landmark Identification and Safety Errors in Mild-moderate Parkinson's Disease. Featured in Carver College of Medicine publication, 2004.

Batchelder, S., Rizzo, M., Vanderleest, R., Vecera, S. Honda Outstanding Student Paper Award. Traffic scene related change blindness in older drivers. In: M. Rizzo, J. D. Lee, & D. McGehee, (Eds.). Proceedings of Driving Assessment 2003: The Second International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design (pp. 177-181), Park City, UT, July 21-24, 2003. Iowa City, IA: The University of Iowa.

Co-recipient [Barry CJ, Smith D, Lennarson P, Rizzo M, Jermeland J, Darling W, Traynelis V]. J. William Fielding Resident/Fellow Award. The effects of wearing a restrictive neck brace on driver performance. Cervical Spine Research Society, 2002.



Ph.D. Candidate  
Ph.D. Candidate  
Ph.D. & M.S. Candidate  
M.D. Candidate  
J.D. Candidate )  
B.S. Candidate  
B.S. Candidate  
B.S. Candidate  
B.A. Candidate



**University of Iowa Institutional Programs**

Research Faculty, Simulator Core, Injury Prevention Research Center, 2000-present

Member, Advisory Committee; Mentor, Center on Aging, 1999-present

Chair, Program Faculty Committee, Neuroscience Graduate Program, 1997-present

Faculty Associate and Mentor, Center on Aging, 1994-present; Board of Directors, Advisory Committee, 2000-present

Human Subjects Internal Review Board (Committee A), 1994-1999

Continuing Medical Education Committee, 1993-1995

## Research

### Areas of Research Interest

- Behavioral disturbances from CNS injury
- Neural substrates of human vision, attention, and eye-hand coordination
- Cognitive aging and dementia
- Neuroergonomics
- Driving performance in neurological disease
- Virtual Reality applications
- Patient safety/medical error reporting
- Healthcare Policy
- Gaming and cognition

### Research - Publications

#### Books and Proceedings

[REDACTED] (In preparation)

Parasuraman, R., & Rizzo, M. (Eds.). (2007). *Neuroergonomics: The Brain and at Work*. Oxford, UK: Oxford University Press. 430 pages.

Rizzo, M., Lee, J. D., & McGehee, D. (Eds.). (2007). *Proceedings of Driving Assessment 2007: The Fourth Annual International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*. Iowa City, IA: The University of Iowa (In press).

Rizzo, M., Lee, J. D., & McGehee, D. (Eds.). (2005). *Proceedings of Driving Assessment 2005: The Third Annual International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*. Iowa City, IA: The University of Iowa.

Rizzo, M., & Eslinger, P. J. (Eds.). (2004). *Principles and Practice of Behavioral Neurology and Neuropsychology*. Philadelphia, PA: WB Saunders. 56 chapters; 1168 pages.

Barton, J. J. S., & Rizzo, M. (Eds.). (2003). *Vision and the Brain*. Vol. 21 (part II). *Neurologic Clinics of North America*. August 2003. Philadelphia, PA: WB Saunders.

Barton, J. J. S., & Rizzo, M. (Eds.). (2003). *Vision and the Brain*. Vol. 21 (parts I). *Neurologic Clinics of North America*. May 2003. Philadelphia, PA: WB Saunders.

- Rizzo, M., Lee, J. D., & McGehee, D. (Eds.). (2003). *Proceedings of Driving Assessment 2003: The Second Annual International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*. Iowa City, IA: The University of Iowa.
- Rizzo, M., Lee, J. D., & McGehee, D. (Eds.). (2001). *Proceedings of Driving Assessment 2001: The First Annual International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design*. Iowa City, IA: The University of Iowa.
- Rizzo, M., & Tranel, D. (Eds.). (1996). *Head Injury and Postconcussive Syndrome*. New York: Churchill Livingstone.

### **Book Chapters**

- Rizzo, M., Johanson, K. (2009). The principle approach to neurologically impaired drivers. In: Practical Ethics in Clinical Neurology: A Multimedia Case-Based Approach; companion to Bernat, J., Ethical Issues in Neurology, (New York: Butterworth-Heinemann and the St. Paul: American Academy of Neurology). Reimschisel T, Williams M, Eds. Lippincott Williams & Wilkins.
- Rizzo, M. *The brain on the road* (in press). In: Marcotte, T, Grant I. (Eds.). Everyday Functioning: Translating Laboratory Performance to the Real World. New York: Guilford Press.
- Cosman, J., Rizzo, M. *Attention*. In: Arciniegas, D. B., Anderson C.A., Filley, C., (Eds.). Behavioral Neurology and Neuropsychiatry. Cambridge University Press. (in press)
- Barton, J. J. S., & Rizzo, M. (in press). Retrochiasmal visual pathways and higher visual function. In: Glaser J. (Ed.). *Neuro-Ophthalmology*. 4<sup>th</sup> ed. Philadelphia, Pennsylvania: Lippincott Williams and Wilkins.
- Rizzo, M., Robinson, S., & Neale, V. (2007). The brain in the wild. (ch. 8, pp. 113-128). In: Parasuraman R, Rizzo M. (Eds.). *Neuroergonomics: Brain and Behavior at Work*. Oxford, England: Oxford University Press.
- Rizzo, M., Parasuraman, S., (2007). Future prospects for neuroergonomics (ch. 24, pp. 381-388). In: Parasuraman R, Rizzo M. (Eds.). *Neuroergonomics: Brain and Behavior at Work*. Oxford, England: Oxford University Press.
- Rizzo, M., McEvoy, S., & Lee, J. (2007) Medical safety and neuroergonomics. (ch. 23, pp. 360-328). In: Parasuraman R, Rizzo M. (Eds.). *Neuroergonomics: Brain and Behavior at Work*. Oxford, England: Oxford University Press.
- Parasuraman, S. & Rizzo, M. (2007) Introduction to neuroergonomics. (ch. 1, pp. 3-12). In: Parasuraman R, Rizzo M. (Eds.). *Neuroergonomics: Brain and Behavior at Work*. Oxford, England: Oxford University Press.
- Kearney, J. Rizzo, M., Severson, J., & (2007). (ch. 17, pp. 253-274). Virtual reality. In: Parasuraman R, Rizzo M. (Eds.). *Neuroergonomics: Brain and Behavior at Work*. Oxford, England: Oxford University Press.

- Rizzo, M. (2005). Visual apperception and agnosia. In: G. Celesia (Ed.). Disorders of visual processing (ch. 21, pp. 407-428). J. Daube, F. Maguire (Series Eds.). *Clinical Neurophysiology Handbook*. 10-volume series. Elsevier.
- Fattal, D., & Rizzo, M. (2004). Vestibular system and balance. In: M. Rizzo, & P. J. Eslinger, (Eds.). *Principles and Practice of Behavioral Neurology and Neuropsychology* (ch. 16, pp. 361-388). Philadelphia, Pennsylvania: WB Saunders.
- Jones, R. D., & Rizzo, M. (2004.) Head trauma and traumatic brain injury. In: M. Rizzo, P. J. Eslinger. (Eds.). *Principles and Practice of Behavioral Neurology and Neuropsychology* (ch 27, pp. 615-634). Philadelphia, Pennsylvania: WB Saunders.
- Kreder, K. J., Rizzo, M., & Rao, S. S.-C. (2004). Incontinence and sexual dysfunction. In: M. Rizzo, P. J. Eslinger. (Eds.). *Principles and Practice of Behavioral Neurology and Neuropsychology* (ch. 32, pp. 713-736). Philadelphia, Pennsylvania: WB Saunders.
- Rizzo, M. (2004). Safe and unsafe driving. (2004). In: M. Rizzo, P. J. Eslinger, (Eds.). *Principles and Practice of Behavioral Neurology and Neuropsychology* (ch. 9, pp. 197-222). Philadelphia, Pennsylvania: WB Saunders.
- Rizzo, M., & Eslinger, P. J. (2004). Overview and Introduction. In: M. Rizzo, P. J. Eslinger, (Eds.). *Principles and Practice of Behavioral Neurology and Neuropsychology* (pp. 1-20). Philadelphia, Pennsylvania: WB Saunders.
- Vecera, S. P., & Rizzo, M. (2004). Attention: Normal and disordered processes. In: M. Rizzo, P. J. Eslinger, (Eds.). *Principles and Practice of Behavioral Neurology and Neuropsychology* (ch. 10, pp. 223-246). Philadelphia, Pennsylvania: WB Saunders.
- Vecera, S. P., & Rizzo, M. (2004). Visual attention and visual short-term memory in Alzheimer's disease. In A. Cronin-Golomb & P. Hof (Eds.), *Vision and Perception in Alzheimer's Disease*.
- Rizzo, M. (2003). Visual system, central. (2003). In: M. J. Aminoff , & R. B. Daroff, (Eds.). *Encyclopedia of the Neurological Sciences* (vol. 4, pp. 714-719). New York, New York: Elsevier.
- Vecera, S. P., & Rizzo, M. (2003). Spatial attention: normal processes and their breakdown. In: J. J. S. Barton, & M. Rizzo, (Eds.). *Vision and the Brain. 21/2. Neurologic Clinics of North America* (pp. 575-607). Philadelphia, Pennsylvania: WB Saunders.
- Rizzo, M. (2002). Head trauma, brain injury, and postconcussional syndrome. In: R. T. Johnson, J. W. Griffin, & J. C. McArthur, (Eds.). *Current Therapy in Neurologic Disease* (6<sup>th</sup> ed., vol. 6, pp. 228-237). St. Louis, Missouri: Mosby.
- Damasio, A. R., Tranel, D., & Rizzo, M. (2000). Disorders of complex visual processing. In: M. Mesulam, (Ed.). *Principles of Behavioral Neurology* (pp. 332-372). Philadelphia, Pennsylvania: Davis.
- Rizzo, M., & Barton, J. (1999). Topical diagnosis: retrochiasmal visual pathways and higher cortical function. In: J. Glaser. (Ed.). *Neuro-Ophthalmology* (3<sup>rd</sup> ed., ch.7, pp. 239-291). Philadelphia, Pennsylvania: Lippincott Williams and Wilkins.

- Rizzo, M. (1998). Higher cortical visual dysfunction. In: E. Rosen, S. Thompson, P. Eustace, & K. Cumming, (Eds.). *An Atlas of Neuro-Ophthalmology* (pp. 241-249). London, England: Mosby Year Book Europe, Ltd.
- Rizzo, M., & Barton, J. (1998). Central disorders of visual function. In: N. Miller, & N. Newman, (Eds.). *Walsh and Hoyt's Clinical Neuro-Ophthalmology* (vol.1, pp. 387-483). Baltimore, Maryland: Williams and Wilkins.
- Rizzo, M., Reinach, S., & McGehee, D. V. (1997). Dissection of car crashes in high fidelity driving simulations. In: K. A. Brookhuis, D. de Waard, & C. M. Weikert, (Eds.). *Simulators and Traffic Psychology* (pp. 49-56). Proceedings of the Human Factors and Ergonomics Society Europe Chapter Annual Meeting, Haren, The Netherlands. University of Groningen: Centre for Environmental and Traffic Psychology.
- Rizzo, M., Smith, V., Pokorny, J., & Damasio, A. R. (1997). Color perception profiles in central achromatopsia. In: A. Byrne, D. R. Hilbert, (Eds.). *Readings on Color: The Science of Color* (vol.2, pp. 227-290). Cambridge, Massachusetts: MIT Press.
- Rizzo, M., & Tranel, D. (1996). Overview of head injury and postconcussive syndrome. In: M. Rizzo, & D. Tranel, (Eds.). *Head Injury and Postconcussive Syndrome* (pp. 1-18). New York, New York: Churchill Livingstone.
- Rizzo, W., & Rizzo, M. (1996). Cervical pain syndromes. In: M. Rizzo, & D. Tranel, (Eds.). *Head Injury and Postconcussive Syndrome* (pp. 255-284). New York, New York: Churchill Livingstone.
- Barcellos, S., & Rizzo, M. (1996). Post-traumatic headache. In: M. Rizzo, & D. Tranel, (Eds.). *Head Injury and Postconcussive Syndrome* (pp. 139-177). New York, New York: Churchill Livingstone.
- Barton, J. J., & Rizzo, M. (1996). Visual pathways and cerebral integration. In: W. Tasman, & E. Jaeger, (Eds.). *Duane's Foundations of Clinical Ophthalmology* (vol. 2, pp. 1-44). Philadelphia, Pennsylvania: J. B. Lippincott Co.
- Rizzo, M. (1994). The role of striate cortex: evidence from human brain lesion studies. In: A. Peters, & K. S. Rockland, (Eds.). *Cerebral Cortex* (vol. 10, pp. 505-540). New York, New York: Plenum Press.
- Rizzo, M. (1993). 'Bálint's syndrome' and associated visuospatial disorders. In: C. Kendall (Ed.). *Ballières Clinical Neurology* (vol. 2, ch. 9, pp. 415-437). London, England: Harcourt, Brace, Javonovitch.
- Rizzo, M. (1989). Astereopsis. In: H. Goodglass, & A. R. Damasio, (Eds.). *Handbook of Neuropsychology: Disorder of Visual Behavior* (vol. 2.4, pp. 415-427). Amsterdam, The Netherlands: Elsevier.
- Rizzo, M., & Damasio, A. R. (1989). Acquired central achromatopsia. In: J. J. Kulikowski, C. M. Dickinson, & I. J. Murray, (Eds.). *Contour and Colour* (pp. 754-764). London, England: Pergamon Press.

Robin, D. A., & Rizzo, M. (1989). The effect of focal cerebral lesions on intra-modal and cross-modal orienting of attention. In: T. Prescott, (Ed.). *Clinical Aphasiology* (pp. 61-74). San Diego, California: College Hill Press.

## Papers

- [REDACTED] (In preparation).
- Rizzo, M., Reger, M., Dubinsky, R., Classen, S., Gronseth, G., Iverson, D. J. (2008). Report of the quality standards subcommittee of the American Academy of Neurology. Practice parameter update: Evaluation and management of driving risk in aging and dementia (a systematic evidence-based review). Part I: Effects of aging and cognitive impairment. (Submitted).
- Uc, E., Doerschug, K., Mehta, S., Dawson, J., Rizzo, M., Darling, W., Anderson, S.W., Rodnitzky, R., Kline, J., Erickson, K., Kramer, A., and Grabowski, T. (2008). Cardiovascular fitness and cognition in mild-moderate Parkinson's disease. *Movement Disorders*, (Submitted).
- Dawson, J.D., Cavanaugh, J.E., Zamba, K.D., and Rizzo, M. (2008). Modeling lateral control in driving studies. *Accident Analysis and Prevention*, (Submitted).
- Lees, M.N., Cosman, J., Lee, J.D., Vecera, S., Jang, M., Dawson, J.D., Rizzo, M. (2008). An evaluation of cross-modal alerting parameters in the orienting of attention in attention impaired drivers. *Accident Analysis and Prevention*, (Submitted).
- Dastrup, E., Lees, M.N., Bechara, A., Dawson, J.D., Rizzo, M. (2008). Risky car following in abstinent users of MDMA. *Accident Analysis and Prevention*, (Submitted).
- Iverson, D. J., Classen, S., Gronseth, G., Reger, M., Rizzo, M. (2008). Report of the quality standards subcommittee of the American Academy of Neurology. Practice parameter update: Evaluation and management of driving risk in again and dementia (an evidence-based review). Part II: Demographic and historical aspects and management. (Submitted).
- [REDACTED] (Under review).
- [REDACTED] (Under review).
- [REDACTED] (In revision).
- [REDACTED] (In revision).
- Rizzo, M., Uc, E. Y., Dawson, J., Anderson, S., & Rodnitzky, R. (2008). Driving difficulties in PD. *Movement Disorders – Supplement: Parkinson's Disease Foundation Frontiers of Service and Clinical Quality of Life* (In press).

- Rizzo, M., McEvoy, S., Batchelder, S., Kellison, I., Vecera, S. (2008). Change blindness in aging and Alzheimer's disease. *Journal of Clinical and Experimental Neuropsychology* (In press).
- Rizzo, M., Nawrot, M., Sparks, J. D., Dawson, J. (2008). First and second order motion perception after focal human brain lesions. *Vision Research* (In press).
- Uc, E.Y. & Rizzo, M. (2008). Driving in Neurodegenerative Diseases. *Current Neurology and Neuroscience Reports*, 8(5) (In press).
- Dawson, J., Cavanaugh, J., Zamba, G., Rizzo, M. (May 27-31, 2008). Modeling the Variability of Lateral Vehicular Control. 10th International Conference on Applications of Advanced Technologies in Transportation. Athens, Greece.
- Blake, R., Rizzo, M., McEvoy, S. (2008). Aging and perception of form from temporal structure. *Psychology and Aging*, 23(1), 181-189.
- Boyle, L., Tippin, J., Sparks, J.D., Rizzo, M. (2008). Driver performance in the moments surrounding a microsleep. *Transportation Research Part F: Traffic Psychology and Behavior*, 126-136.
- Vance, D. E., Ross, L. A., Ball, K. K., Wadley, V. G., & Rizzo, M. (2007). Correlates of individual physical activities in older adults. *Activities, Adaptation and Aging*, 31(4), 1-21.
- Uc, E.U., Rizzo, M., Anderson, S., Sparks, J., Rodnitzky, R., Dawson, D., (2007). Impaired Navigation in Drivers with Parkinson's disease. *Brain*, 130(9):2433-2440.
- Schwebel, D., Ball, K.K., Severson, J., Barton, B.K., Rizzo, M., Viamonte, S.M. (2007). Individual difference factors in risky driving among older adults. *Journal of Safety*, 38(5):501-509.
- Hill, J., Boyle, L., Tippin, J., Faber, K., Rizzo, M. (2007). The Effects of Sleepiness on Heart Rate Variability in a Driving Simulator. *Proceedings of Driving Assessment 2007: The Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design*. (pp. 306-313). Stevenson, Washington USA. Iowa City, Iowa: The University of Iowa. (In press).
- Tregear, S. J., Rizzo, M., Tiller, M., Schoelles, K., Hegmann, K., Greenberg, M., Phillips, B., Anderson, G. (2007). Diabetes and Motor Vehicle Crashes: A Systematic Evidence-Based Review and Meta-Analysis. Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Stevenson, Washington USA. *Proceedings of Driving Assessment 2007: The Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design*. (pp. 343-350). Stevenson, Washington USA. (July 9-12, 2007) Iowa City, Iowa: The University of Iowa.
- Darling, W.G., Bartelt, R, Pizzimenti, M.A., Rizzo., M. (2007). Spatial perception errors do not predict pointing errors by individuals with brain lesions. *Journal of Clinical and Experimental Neuropsychology*, 29(1):1-18.
- Lees, M.N., Sparks, J.D., Lee, J.D., and Rizzo, M.D. (2007). Change blindness, attention, and driving performance. Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Stevenson, Washington USA. *Proceedings of Driving Assessment 2007: The Fourth International Driving Symposium on Human Factors in*

- Driving Assessment, Training, and Vehicle Design.* (pp. 32-38). Stevenson, Washington USA. (July 9-12, 2007) Iowa City, Iowa: The University of Iowa.
- Bacon, D., Fisher, R.S., Morris, J.C., Rizzo, M., Spanaki, M.V. (2007) American Academy of Neurology position statement on physician reporting of medical conditions that may affect driving competence. *Neurology* 68: 1174-1177.
- Matthew Rizzo, M., Glick, T. Medical errors after stroke: Preventable or inevitable? (2007). *Neurology*, 68:542-543.
- Anderson, S. W., Rizzo, M., Skaar, N., Stierman, L., Cavaco, S., Damasio, H., & Dawson, J. (2007). Amnesia and driving. *Journal of Clinical and Experimental Neuropsychology*, 29:1-12.
- Bacon, D., Fisher, R.S., Morris, J.D., Rizzo, M., Spanaki, M.V. (2007). Position statement on physician reporting of medical conditions that may affect driving competence. Special Article. *Neurology* 68: 174-1177; American Academy of Neurology.  
[http://www.aan.com/advocacy/federal/pdfs/2006-59\\_PhysicianReporting\\_PositionStatement.pdf](http://www.aan.com/advocacy/federal/pdfs/2006-59_PhysicianReporting_PositionStatement.pdf)
- Vance, D., Dawson, J., Wadley, V., Edwards, J., Roenker, D., Rizzo, M., & Ball, K. (2007). The Accelerate Study: The longitudinal effect of speed of processing training on cognitive performance of older adults. *Rehabilitation Psychology*, 52:89-96.
- Glick, T.H., Rizzo, M., Stern, B.J., & Feinberg, D. M. (2006). Neurologists for patient safety: where we stand, time to deliver Subcommittee of the American Academy of Neurology. Improving Patient Safety: *Neurology*, 67:2119-2123.
- Lamers, C. T. J., Bechara, A., Rizzo, M., & Ramaekers, J. G. (2006). Cognitive function and mood in MDMA/THC users, THC users and non-drug using controls. *Journal of Psychopharmacology*. 20:302-311.
- Lamers, C. T. J., Rizzo, M., Bechara, A., & Ramaekers, J. G. (2006). Comparison of simulated driving performance and attention of repeated users of MDMA and THC as compared to THC users and non drug using controls. *Transportation Research Record*. 1969:50-57.
- Pietras, T., Shi, Q., & Rizzo, M. (2006). Traffic entry behavior in older drivers with selective attention impairment. *Perceptual and Motor Skills*, 102:632-644.
- Uc, E., Rizzo, M., Anderson, S.W., Shi, Q., & Dawson, J.D. (2006). Unsafe rear-end collision avoidance in Alzheimer's disease. *J Neurol Sci*. 251:35-43.
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### **Position Papers and Related Projects:**



(In revision.)

Ethics of Augmented Cognition. Literature Review, White Paper and Position Statement. American Academy of Neurology. Ethics, Law and Humanities Committee. October 6, 2007

Legislative Position on the Use of Human Pluripotent Stem Cells in Biomedical Research. Prepared for American Academy of Neurology and American Neurological Association, 2003- 2004.

American Academy of Neurology Patient Safety Reporting Website. Prepared by AAN Patient Safety Workgroup. 2002. <http://qyxis.com/AAN-Safety/index.cfm>

Practice Characteristics Subcommittee Poster: *Neurologist 2000*. Guidelines and Continuous Improvement Session, American Academy of Neurology, Denver, CO., May 2002.

American Neurological Association Program Director Survey: *Neurology in the Current Academic Health Care Environment*. 2001-2002.

American Academy of Neurology Safety Reporting Tool. 2001-2002.

Federal Legislative Priorities Paper, Legislative Affairs Committee, American Academy of Neurology, 2001.

Legislative Position on Patient Safety-Key Considerations, American Academy of Neurology, 2001.

*Neurologists 2000: AAN Member Demographic and Practice Characteristics*. AAN Practice Characteristics Subcommittee: American Academy of Neurology, 2001.

Legislative Position on Patient and Provider Bill of Rights, American Academy of Neurology, 1999; 2000; 2001.

Pilot development of a Healthcare Information Safety Reporting System (HISRS) and reporting tools for the AAN- in line with other confidential voluntary reporting systems such as the maritime safety reporting system being studied by the US Coast Guard and the Aviation Safety Reporting System administered by NASA

### **Abstracts/Presentations**

Dawson JD, Rizzo M, Dastrup E, Anderson SA, Uc EY. Road Safety in Drivers with Parkinson's Disease. Submitted to Transportation Research Board meeting.

Rizzo M. Development of collision alerting and warning devices for drivers with attentional impairments. In: Human Error - Cognitive and Neurocognitive Perspective - From Theory and Research to Neuroadaptive Technologies and Neuroadaptive Interfaces. 2nd International Conference on Applied Ergonomics, July 14-17, 2008, Las Vegas

Uc EY, Rizzo M, Anderson SW, Dastrup E, Sparks J, Rodnitzky RL, Dawson JD. Impaired Curve Negotiation in Drivers with Parkinson's Disease. 12<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, Chicago, IL, June 22-26, 2008. (poster presentation-selected for guided tour)

Rizzo, M., Dawson, J., Anderson, S. W., Uc, E., Jang, M. Awareness of Visual Impairment in Mild AD. Vision Sciences Society, Naples FL, May 13, 2008.

- Dawson, J., Cavanaugh, J., Zamba, G., Rizzo, M. (May 27-31, 2008). Modeling the Variability of Lateral Vehicular Control. 10th International Conference on Applications of Advanced Technologies in Transportation. Athens, Greece.
- Uc, E. Y., Doerschug, K., Mehta, S., Rizzo, M., Erickson, K., Darlin, W., Anderson, S., Rodnitzky, R., Kline, J., Kramer, A., & Grawbowski, T. (April 16, 2008). Cardiovascular Fitness and Cognition in Mild-Moderate Parkinson's Disease. 60th American Academy of Neurology Annual Meeting, Chicago, IL.
- Uc, E. Y., Rizzo, M., Dastrup, E., Anderson, S., Rodnitzky, R., & Dawson, J. (2008, April 17). Reduced Visual Vigilance in Drivers with Parkinson's Disease. 60th American Academy of Neurology Annual Meeting, Chicago, IL.
- Ross, L. A., Ball, K. K., Vance, D. E., Rizzo, M., & Wadley, V. (February 2008). Predicting individual physical activities in community-dwelling older adults. Paper presented at the Southern Nursing Research Society, Birmingham, AL.
- Uc EY, Rizzo M, Anderson SW, Dastrup E, Sparks J, Rodnitzky RL, Dawson JD. Impaired Curve Negotiation in Drivers with Parkinson's Disease. Transportation Research Board 87<sup>th</sup> Annual Meeting, Washington, D.C., January 13-17, 2008 (poster presentation).
- Cosman, J.D., Lees, M.N., Rizzo, M., Lee, J.D., Vecera, S.P., Nguyen, T., Newman, S. (November, 3-7, 2007). Use of an in-vehicle alerting system to augment attention in impaired older-drivers. Proceedings of the 37th Annual Meeting of the Society for Neuroscience.
- Uc, E.Y., Rizzo, M., Anderson, S., Rodnitzky, R.L., Dawson, J.D. Predicting Driver Safety in Parkinson's Disease. (2007, October 7-10) American Neurological Association. 132<sup>nd</sup> Annual Meeting, Washington, D.C.
- Severson, J., Wagner, J., Kellison, I., Rizzo, M. (2007, September 12-14). Driving Simulation: How Low Can You Go? Driving Simulation Conference-North America, The University of Iowa, Iowa City, Iowa.
- Seppelt, B., Lees, M., Lee, J., Rizzo, M. (2007, September 12-14). Promoting Repeatable Research and Collaboration—The Benefits of a Driving Simulation Wiki. Driving Simulation Conference-North America, The University of Iowa, Iowa City, Iowa.
- Dawson, J.D., Cavanaugh, J.E., Zamba, K.D., Rizzo, M. (2007, July 29-Aug 2) Modeling Lateral Position and Control in Driving Studies of Elderly Populations. Joint Statistical Meetings, Salt Lake City, UT.
- Dawson, J., Cosman, J., Lei, Y., Dastrup E., Sparks, J.D., Rizzo, M. (2007, July 9-12). The Relationship Between Driving Behavior and Entropy. Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Stevenson, Washington USA.
- Hill, J., Boyle, L., Tippin, J., Faber, K., Rizzo, M. (2007, July 9-12). The Effects of Sleepiness on Heart Rate Variability in a Driving Simulator. Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Stevenson, Washington USA.

- Lees, M.N., Sparks, J.D., Lee, J.D., and Rizzo, M.D. (2007, July 9-12). Change blindness, attention, and driving performance. Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Stevenson, Washington USA.
- Tregear, S. J., Rizzo, M., Tiller, M., Schoelles, K., Hegmann, K., Greenberg, M., Phillips, B., Anderson, G. (2007, July 9-12). Diabetes and Motor Vehicle Crashes: A Systematic Evidence-Based Review and Meta-Analysis. Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Stevenson, Washington USA.
- Uc, E.Y., Rizzo, M., Anderson, S.W., Sparks, J., Shi, Q., Rodnitzky, R., Dawson, J.D. (2007, July 9-12). Predicting driver safety in Parkinson's disease: an interim report on an ongoing longitudinal study. Fourth International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Stevenson, Washington USA.
- Tippin, J., Rizzo, M., Sparks, J.D., Boyle, L. (2007, June 9-14). Reduced Useful Field of View in Drivers with Obstructive Sleep Apnea Syndrome. 21<sup>st</sup> Annual Meeting of the Associated Professional Sleep Societies, LLC, Minneapolis, Minnesota.
- Uc, E.Y., Rizzo, M., Sparks, J.D., Anderson, S., Rodnitzky, R.L., Dawson, J.D. (2007, June 3-7). Predictors of Driver Safety Errors in Parkinson's Disease. Movement Disorder Society's 11th International Congress of Parkinson's Disease and Movement Disorders. Istanbul, Turkey.
- Severson, M., Uc, E.Y., Sparks, J., Rizzo, M. (2007, May 11-16). Effects of UFOV Impairment on Kinematics of Curve Driving. Abstract. Vision Sciences Society. Sarasota, FL.
- Vaux, L.M., Ni, R., Rizzo, M., Uc, E.Y., Andersen, G.J. (2007, May 11-16). Detection of imminent collisions by drivers with Alzheimer's Disease, Parkinson's Disease and Stroke. Vision Sciences Society. Sarasota, FL.
- Uc, E.Y., Rizzo, M., Sparks, J.D., Anderson, S.W., Rodnitzky, R.L., Dawson, J.D. (2007, April 28-May 5) Increased Crash Risk in Drivers with Parkinson's Disease under Low Visual Contrast Lighting Conditions. 59th American Academy of Neurology Annual Meeting, Boston, MA.
- Tippin, J., Rizzo, M., Sparks, J., Boyle, L. (2007, April 28-May 5). Visual vigilance in drivers with obstructive sleep apnea syndrome. 59th American Academy of Neurology Annual Meeting, Boston, MA.
- Dawson, J.D., Cavanaugh, J.E., Zamba, K.D., Rizzo M. (2007, March 26-29). Measuring lateral control in driving studies. Biometric Society (Eastern North American Region) Annual Meeting, Tampa, FL.
- Dawson, J.D., Cosman, J.D., Lei, Y., Dastrup, E., Sparks, J., Rizzo M. (2007, March 11-14). Factors affecting vehicular lateral control measures in driving simulators. International Biometric Society (ENAR) Annual Spring Meeting, Atlanta, GA.
- Uc, E., Rizzo M., Anderson S., Sparks J, Rodnitzky R., Dawson J. (2007, January 20-24) An analysis of Driving Habits in Parkinson's Disease. Transportation Research Board 86<sup>th</sup> Annual Meeting, Washington, D.C., (platform presentation).

- Uc E., Rizzo M, Anderson SW, Sparks J, Rodnitzky RL, Dawson JD. (2006, October 28-November 2,). Effect of Concomitant Motor Task on Driving in Parkinson Disease. 10th International Congress of Parkinson's Disease and Movement Disorders, Kyoto, Japan,. Movement Disorders, 2006;21 Suppl 15:S580.
- Uc E., Rizzo M., Anderson S., Rodnitzky R., Dawson J. (2006, October 8-11) Prediction of Driver Safety in Parkinson's Disease. (Invited poster for new members at the 131<sup>st</sup> Annual Meeting of the American Neurological Association, Chicago)
- Philippi, C., Sparks, J., Marron, M., Rizzo, M. (2006, May 5 – 15). Effects of dorsal and ventral visual pathway lesions on visual vigilance. Vision Sciences Society Conference, Sarasota, Florida.
- Vaux, L., Marron, M., Rizzo, M. (2006, May 5 – 15). Do patients with Alzheimer's disease compensate for impaired visual attention when driving? Vision Sciences Society Conference, Sarasota, Florida.
- Philippi, C., Sparks, J., Marron, M., Rizzo, M. (2006, April 1 – 8,). UFOV impairments in extrastriate lesions. American Academy of Neurology Annual Meeting, San Diego, CA.
- Uc EY, Rizzo M, Paulsen J, Rodnitzky R, Paulson, HL, Dawson J. (2006, April 6). Visual Dysfunction in Independently Living Patients with Huntington s Disease. 58th American Academy of Neurology Meeting, San Diego, CA.
- Schwebel, D.C., Severson, J., Ball, K.K., & Rizzo, M. (2006, April). Individual difference factors in risky driving: The roles of anger, conscientiousness, and sensation-seeking. Paper accepted for publication and presentation at the 8<sup>th</sup> World Conference on Injury Prevention and Safety Promotion, Durban, South Africa.
- Uc, E., Rizzo, M., Shi, Q., Anderson, S., Rodnitzky, R., Dawson, J. (2006, February 22-26). Effect of Road Type on Driving Safety in Parkinson's Disease. (Poster presentation at the 1<sup>st</sup> World Parkinson Congress, Washington D.C., Movement Disorders, 2006, Volume 21, Supplement 1: S139.
- Rizzo, M., McEvoy, S., Sparks, J., & Severson, J. (2005, September 25–28). Mudsplashes and Go/No-Go Decisions in Aging and Alzheimer's Disease. American Neurological Association 131<sup>st</sup> Annual Meeting, Chicago, IL.
- Rizzo, M., & Severson, J. (2005, July 22-27). Virtual environments for localizing cognitive impairments in real word tasks. 1<sup>st</sup> annual Augmented Cognition International conference . Las Vegas, Nevada.
- Anderson, S. W., Rizzo, M., Shi, Q., Uc, E., & , J. D. (2005, June 27-30). Cognitive abilities related to driving performances in a simulator and crashing in the road. 3<sup>rd</sup> International Driving Symposium on Human Factors and Driving Assessment, Training, and Vehicle Design. Rockport, Maine.
- Paul, A., Boyle, L., Boer, E., Tippin, J., & Rizzo, M. (2005, June 27-30). Steering entropy changes as a function of microsleeps. 3<sup>rd</sup> International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Rockport, Maine.

- Paul, A., Boyle, L., Rizzo, M., & Tippin, J. (2005, June 27-30). Variability of driving performance during microsleeps. 3<sup>rd</sup> International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Rockport, Maine.
- Ni, R. G., Andersen, J., McEvoy, S., & Rizzo, M. (2005, June 27-30). Age related decrements in steering control: The effects of landmark and optical flow information. 3<sup>rd</sup> International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Rockport, Maine.
- Uc, E.Y., Rizzo, M., Shi, Q., Anderson, S.W., Rodnitzky, R. L., Dawson, J. (2005, June) Effects of a controlled auditory-verbal distraction task on driving safety in Parkinson's disease. Poster presentation at the 16<sup>th</sup> International Congress on Parkinson's Disease and Related Disorders. Berlin, Germany.
- St. Louis, E., McEvoy, S., Shi, Q., & Rizzo, M. (2005, June 27-30). Useful field of view impairment in partial epilepsy. 3<sup>rd</sup> International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Rockport, Maine.
- Uc, E., Rizzo, M., Anderson, S. W., Shi, Q., & Dawson, J. D. (2005, June 27-30). Unsafe rear-end collision avoidance in Alzheimer's disease. 3<sup>rd</sup> International Driving Symposium on Human Factors in Driving Assessment, Training, and Vehicle Design. Rockport, Maine.
- McEvoy, S., Sparks, J. D., Kellison, I., Batchelder, S., Vecera, S. P., & Rizzo, M. (2005, April 9-16). Increased change blindness in aging and Alzheimer's disease. 57<sup>th</sup> Annual Meeting of the American Academy of Neurology, Miami Beach, Florida.
- Fisher, D., Mourant, R., & Rizzo, M. (2005, January 9). The development of standardized descriptions of driving simulator scenarios: Human factors considerations. Workshop for presentation at the 84<sup>th</sup> Annual TRB Meeting, Washington, DC.
- Pietras, T., Shi, Q., & Rizzo, M. (2005, January 10). Traffic entry behavior in older drivers with selective attention impairment. 84<sup>th</sup> Annual TRB Meeting, Washington, DC.
- Rizzo, M. (2005, January 22). Medical disorders, surgical disorders, and drugs. Workshop Director at the 85<sup>th</sup> Annual TRB Meeting, Washington, DC.
- Rizzo, M. (2005, January 10). Medical disorders, surgical disorders, and drugs. Panel Director at the 84<sup>th</sup> Annual TRB Meeting, Washington, DC.
- Rizzo, M., Shi, Q., Dawson, J., Anderson, S. W., Kellison, I., & Pietras, T. (2005, January 10). Stops for Cops: Impaired response implementation in older drivers with cognitive decline. 84<sup>th</sup> Annual TRB Meeting, Washington, DC.
- Shi, Q., Stierman L, Dawson J, and Rizzo M. (2005). Defining and assessing endpoints in driving simulator tasks. Joint Statistical Meetings, Minneapolis, Minnesota.
- Uc, E., Rizzo, M., Anderson, S., Shi, Q., & Dawson, J. (2005, January 10). Driver landmark and traffic sign identification in stroke. 84<sup>th</sup> Annual TRB Meeting, Washington, DC.
- Uc, E., Rizzo, M., Shi, Q., Anderson, S. W., & Rodnitzky, R. L., Dawson, J. Relationship of Visual and Cognitive Dysfunction to Motor Impairment in Parkinsons Disease without Dementia. Neurology,

- 2005, 64 (6) Supplement 1: A203; Presentation at the 57th Annual Meeting of the American Academy of Neurology. Miami Beach, Florida.
- Kellison, I., Vecera, S. P., & Rizzo, M (2004). Visual Short-term Memory Deficits in Alzheimer's Disease. Vision Sciences Society, 4th Annual Meeting, Sarasota, Florida. Program and Abstract Book: 207.
- Rizzo, M., Blake, R., McEvoy, S., Sheffield, B., & Nawrot, M. (2004, October 23-27). Reduced perception of form from temporal structure (FTS) with advancing age. 34th Annual Society for Neuroscience Meeting, San Diego, California.
- Rizzo, M., Kellison, I., Stierman, L., Vanderleest, R., & Tippin, J. (2004, October 2-6). Decline in Visual Vigilance in Drivers with Obstructive Sleep Apnea Syndrome (OSAS). 129th Annual Meeting and the 7th Annual Neurology Outcomes Symposium, American Neurological Association, Toronto, Ontario, Canada.
- Rizzo, M., Shi, Q., Pietras, T., Kellison, I., & Dawson, J. (2004, October 2-6). Plaques, Stops and Virtual Cops. 129<sup>th</sup> Annual Meeting and the 7<sup>th</sup> Annual Neurology Outcomes Symposium, American Neurological Association, Toronto, Ontario, Canada.
- Rizzo, M. (2004, September 20-24). Physiologic Methods and Measurements in Driving Simulation, for presentation in the Surface Transportation Technical Area at the Human Factors and Ergonomics Society's 48<sup>th</sup> Annual Meeting, New Orleans, Louisiana.
- Rizzo, M., & Caird, J. C. (2004, September 20-24). Critical Issues in Driving Simulation Methods and Measures, for Presentation in the Surface Transportation Technical Area at the Human Factors and Ergonomics Society's 48<sup>th</sup> Annual Meeting, New Orleans, Louisiana.
- Rizzo, M., & Severson, J. (2004, August 8-12). Abstract Virtual Environments for Assessing Cognitive Abilities. SIGGRAPH 2004: The 31<sup>st</sup> International Conference, Los Angeles, California.
- Lamers, C. T. J., Rizzo, M., Bechara, A., & Ramaekers, J. G. (2004, July). Effects of ecstasy and marijuana on attention and driving performance in abstinent users and non-drug using controls. Annual meeting of the British Association of Psychopharmacology. Harrowgate, England. *Journal of Psychopharmacology*, 18(3, supplement), A39:TA13.
- Lamers, C. T. J., Bechara, A., Rizzo, M., & Ramaekers, J. G. (2004, July). Effects of ecstasy and marijuana on cognitive performance, decision-making and reported mood in abstinent users and non-drug using controls. Annual meeting of the British Association of Psychopharmacology. Harrowgate, England. *Journal of Psychopharmacology*, 18(3, supplement), A68:OM64.
- Uc, E. Y., Rizzo, M., Shi, Q., Anderson, S. W., Rodnitzky, R. L., & Dawson, J. D. (2004, June 13-17). Driver Landmark Identification and Safety Errors in Mild-moderate Parkinson's Disease. Poster presentation at the Movement Disorder Society's 8<sup>th</sup> annual International Congress of Parkinson's disease and Movement Disorders, Rome, Italy. *Movement Disorders*, 19(Supplement 9), S193-4.
- Sheffield, R. A., Rizzo, M., & Vecera, S. P. (2004, May 4). Locus of spatial attention decline in cognitive aging and Alzheimer's disease, Vision Sciences Society, Sarasota, Florida, 4th Annual Meeting. Program and Abstract Book: 207.

- Uc, E., Rizzo, M., Shi, Q., Anderson, S. W., Rodnitzky, R. L., & Dawson, J. D. (2004, April 24-May 1). Route-Following and Safety Errors in Drivers with Parkinson's Disease. American Academy of Neurology, 56<sup>th</sup> Annual Meeting, San Francisco, California, April 24-May 1. *Neurology*, 62 (7) *Supplement 5*, A523.
- Uc, E. Y., Rizzo, M., Anderson, S. W., Shi, Q., & Dawson, J. D. (2004, February 4-7). Executive dysfunction in mild-moderate Parkinson's disease correlates with motor disability. 32<sup>nd</sup> Annual Meeting, International Neuropsychology Society (pp. 118-119), Baltimore, Maryland.
- Wisnowski, J. L., Anderson, S. W., Rizzo, M., Naqvi, N., & Tranel, D. (2004, February 4-7). Face and object recognition following early-onset focal brain damage. 32<sup>nd</sup> Annual Meeting, International Neuropsychology Society (pp. 55-56), Baltimore, MD.
- Uc, E. Y., Rizzo, M., Anderson, S., Shi, Q., & Dawson, J. D. (2004, January 11-15). Driver route-following and safety errors in stroke. 83<sup>rd</sup> Annual TRB Meeting, Washington, DC. Compendium of Papers CD-ROM: paper number 04-4022.
- Rizzo, M., Stierman, L., Skaar, N., Dawson, J. D., Anderson, S. W., & Vecera, S. P. (2004, January 11-15). Effects of a Controlled Auditory-Verbal Distraction Task on Older Driver Vehicle Control. 83<sup>rd</sup> Annual TRB Meeting, Washington, DC. Compendium of Papers on CD-ROM: paper number 04-3866.
- Uc EY, Rizzo M, Shi Q, Anderson SW, Rodnitzky RL, Dawson JD. Driver Landmark Identification and Safety Errors in Mild-moderate Parkinson's Disease. *Mov Disord*, 2004, Volume 19, Supplement 9: S193-4.
- Uc EY, Rizzo M, Shi Q, Anderson SW, M, Rodnitzky RL, Dawson JD. Route-Following in Drivers with Parkinson's vs. Alzheimer's Disease. *Ann Neurol*, 2004, Supplement 8: S39. Presentation at the 129th American Neurological Association Meeting, Toronto, Ontario, Canada.
- Kellison, I., Rizzo, M., Vecera, S. P., & Dawson, J. (2003, November 8-12). Blindness to context-relevant visual change in advancing age. Society for Neuroscience, San Francisco, California, 933.13
- Uc, E. Y., Dawson, J. D., Rodnitzky, R. L., Smothers, J. L., & Rizzo, M. (2003, October 19-22). Reduction in the Useful Field of View in Parkinson's disease. American Neurological Association 128<sup>th</sup> Annual Meeting, San Francisco, California, *Annals of Neurology*, *Supplement 7*:S39, pp. 35 (poster).
- Vecera, S. P., Rizzo, M., & Sheffield, R. A. (2003, October 19-22). Impaired 'social attention' following frontal-lobe damage. American Neurological Association 128<sup>th</sup> Annual Meeting (pp. 19), San Francisco, California.
- Vecera, S. P., Rizzo, M., & Sheffield, R. A. (2003, October 19-22). The resolution of spatial attention following parietal-lobe damage. American Neurological Association 128<sup>th</sup> Annual Meeting (pp. 19), San Francisco, California.
- Batchelder, S., Rizzo, M., Vanderleest, R., & Vecera, S. (2003, July 21-24). Traffic scene related change blindness in older drivers. Second International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design (pp. 177-181), Park City, Utah.

- Rizzo, M., Severson, J., Cremer, J., & Price K. (2003, July 21-24). An abstract virtual environment tool to assess decision-making in impaired drivers. Second International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design (pp. 40-47), Park City, Utah.
- Rizzo, M., Sheffield, R., & Stierman, L. (2003, July 21-24). Demographic and driving performance factors in simulator adaptation syndrome. Second International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design (pp. 201-208), Park City, Utah.
- Skaar, N., Anderson, S. W., Dawson, J., & Rizzo, M. (2003, July 21-24). Automobile driving with severe amnesia. Second International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design (pp. 148-149), Park City, Utah.
- Skaar, N., Rizzo, M., & Stierman, L. (2003, July 21-24). Traffic entry judgments by aging drivers. Second International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design (pp. 92-97), Park City, Utah.
- Uc, E. Y., Smothers, J. L., Shi, Q., & Rizzo, M. (2003, July 21-24). Driver navigation and safety errors in Alzheimer's disease and stroke. Proceedings Second International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design (pp. 31-32), Park City, Utah.
- Rizzo, M. (2003, June 18-22). Invited lecture. Executive Dysfunction: What if Phineas Gage could drive? The Eye and The Auto 2003: An International Forum on the Relationship between Vision and the Safe Operation of a Motorized Vehicle. Detroit Institute of Ophthalmology, Detroit, Michigan.
- Vance, D. E., Ball, K. K., Edwards, J. D., Wadley, V. G., & Rizzo, M. (2003, May 29-June 1). Speed of processing training improves cognition in older adults. American Psychological Society 15<sup>th</sup> Annual Meeting, Atlanta, Georgia. Poster session V-112.
- Sheffield, R., Rizzo, M., & Vecera, S. P. (2003, May 12). Increased reliance on attentional precues in normal aging. Vision Sciences Society, 3<sup>rd</sup> Annual Meeting, Sarasota, Florida. *Vol. 3, No. 9*, Pp. 723A.
- Skaar, N., Rizzo, M., & Stierman, L. (2003, May 12). Glare disability with attention impairment. Vision Sciences Society, 3<sup>rd</sup> Annual Meeting, Sarasota, Florida, *Vol. 3, No. 9*, Pp. 719A.
- Rizzo, M., Lamers, C. T. J., Skaar, N., Sauer, C., Ramaekers, J., & Anderson, G. (2003, May 10). Perception of heading in abstinent MDMA and THC users. Vision Sciences Society, 3<sup>rd</sup> Annual Meeting, Sarasota, Florida, *Vol. 3, No. 9*, Pp. 410A.
- Smothers, J., Rizzo, M., & Shi, Q. (2003, March 29-April 5). Safety errors during roadway search in drivers with neurological disease. American Academy of Neurology, 55<sup>th</sup> Annual Meeting, Honolulu, Hawaii. P03.035
- Rizzo, M., Severson, J., Cremer, J., & Price, K. (2003, March 29-April 5). Measurement of go/no-go decision-making in cognitively impaired drivers. American Academy of Neurology 55<sup>th</sup> Annual Meeting, Honolulu, Hawaii.
- Skaar, N., Anderson, S. W., Dawson, J., & Rizzo, M. (2003, March 29-April 5). Automobile driving with severe amnesia. American Academy of Neurology 55<sup>th</sup> Annual Meeting, Honolulu, Hawaii.

- Vecera, S. P., Rizzo, M., & Sheffield, R. A. (2003, March 29-April 5). Impaired 'Social Attention' following frontal-lobe damage. American Academy of Neurology, 55<sup>th</sup> Annual Meeting, Honolulu, Hawaii.
- Rizzo, M. (2003, March 17). Invited lecture. Prediction and prevention of vehicle crashes in driver with visual and cognitive impairments. Victorian Institute of Forensic Medicine/Monash University Accident Research Center, Melbourne, Australia.
- Rizzo, M., Vanderleest, R., Seaba, P., Skaar, N., & Severson, J. (2003, March 9-13). Synchronous measures of sleepy driver physiology and performance in driving simulator scenarios. Abstract. 5th International Conference on Fatigue in Transportation: Coping with the 24-Hour Society, Fremantle, Western Australia.
- Rizzo, M., Nawrot, M., & Skaar, N. (2002, November 2-7). Perception of depth from motion parallax in humans with lesions in visual association cortex. Society for Neuroscience 32<sup>nd</sup> Annual Meeting, Orlando, Florida.
- Vance, D. E., Edwards, J. D., Rizzo, M., Ball, K. K., & Wadley, V. G. (2002, August 22-23). Effects of physical activity on cognitive health in older adults. Poster. American Psychological Association Conference, Chicago, Illinois.
- Vance, D. E., Edwards, J. D., Rizzo, M., Ball, K. K., & Wadley, V. G. (2002, August 22-23). The effects of speed of processing on training older adults. Poster. American Psychological Association Conference, Chicago, Illinois.
- Rizzo, M. (2002, June 19-20). Human Aging Factors – Vision and Cognitive Capacity. Safe Mobility Decisions for Older Drivers Forum, sponsored by the Iowa Highway Safety Management System, Iowa State University, Ames, Iowa. West Des Moines, Iowa.
- Rizzo, M., Moon, J., Wilkinson, M., Bateman, K., Jermeland, J., & Schnell, T. (2002, May 10-15). Ocular search of simulated roadway displays in drivers with constricted visual fields. Vision Sciences Society 2<sup>nd</sup> Annual Meeting, Sarasota, Florida.
- Jones, R., Manzel, K., Anderson, S. W., & Rizzo, M. (2002). Neuropsychological profiles in visual variant Alzheimer's disease. *Journal of the International Neuropsychological Society*, 8, 193-194.
- Rizzo, M., Nawrot, M., & Bateman, K. (2001, November 10-15). Perception of shape from static texture cues with lesions in dorsal and ventral visual association cortex in humans. Society for Neuroscience, San Diego, California.
- Rizzo, M. (2001, October 17). Overview of neurology driving simulator research (Simulator for Interdisciplinary Research in Ergonomics and Neuroscience-SIREN), University of Iowa Driving Simulation Workshop, Iowa City, Iowa.
- McGehee, D. V., Lee, J. D., Rizzo, M., & Bateman, K. (2001, August 14-17). Examination of older driver steering adaptation on a high performance driving simulator. Driving Assessment 2001: International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design (pp. 197-201), Aspen, Colorado.

- Skaar, N., Rizzo, M., Bateman, K., & Anderson, S. W. (2001, August 14-17). Effects of speed of visual processing training upon non-visual attention in 'at risk' older drivers. *Driving Assessment 2001: International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design* (pp. 306-307), Aspen, Colorado.
- Crowe, A., Smyser, T., Raby, M., Bateman, K., & Rizzo, M. (2001, August 14-17). Visual attention and roadway landmark identification in at-risk older drivers. *Driving Assessment 2001: International Driving Symposium on Human Factors in Driver Assessment, Training and Vehicle Design* (pp. 175-176), Aspen, Colorado.
- Rizzo, M. (2001, July 19). The eye, the brain, and the automobile. The Iowa DOT Safety Management System Older Driver Task Force. The University of Iowa Public Policy Center, Iowa City, Iowa.
- Rizzo, M. (2001, June 18-22). Effects of higher visual disorders relating to driving. XVII World Congress of Neurology, London, England.
- Rizzo, M., Bateman, K., & Nawrot, M. (2001, May 9). Impairment of shape perception due to static and dynamic cerebral dystereopsis. 53<sup>rd</sup> AAN Annual Meeting, Philadelphia, Pennsylvania.
- Rizzo, M., Bateman, K., Nawrot, M., Anderson, S., Dawson, J., & Nawrot, M. (2001, May 1). Perception of shape from motion after dorsal or ventral visual pathway lesions in human. ARVO Annual Meeting, Fort Lauderdale, Florida.
- Anderson, S. W., & Rizzo, M. (2001, February 14-17). Visual attention related to cognition and driving in early Alzheimer's disease. International Neuropsychological Society 29<sup>th</sup> Annual Meeting, Chicago, Illinois.
- Anderson, S. W., & Rizzo, M. (2001). Visual attention related to cognition and driving in early Alzheimer's disease. *Journal of the International Neuropsychological Society*, 7, 212.
- Rizzo, M., Bateman, K., Nawrot, M., Anderson, S., & Dawson, J. (2001). Perception of shape from motion after dorsal or ventral visual pathway lesions in human. *Investigative Ophthalmology and Visual Science*, 42/4, 1737.
- Rizzo, M., McGehee, D. V., & Jermeland, J. (2000). Design and installation of a driving simulator in a hospital environment. Human Factors in Ergonomics Society Annual Meeting. University of Groningen, the Netherlands: Centre for Environmental & Traffic Psychology.
- Rizzo, M., Raby, M., McGehee, D. V., Dawson, J., Anderson, S. W., Bierbaum, S., & Mitchell, R. (2000, September 4-7). Quantification of driving performance during an auditory-verbal mental processing load. International Conference on Traffic and Transport Psychology. Berne. (*Proceedings* available on CD-ROM, Swiss Council for Accident Prevention, 2000).
- Denburg, N. L., Jones, R. D., Adolphs, R., Rizzo, M., & Tranel, D. (2000). Recognition without awareness in a patient with simultanagnosia. *Journal of the International Neuro-psychological Society*, 6, 115.
- Razavi, M., Rizzo, M., Fattal, D., & Jones, R. D. (2000). Visual hallucinations in temporal arteritis. *Journal of the International Neuropsychological Society*, 6, 230.

- Rizzo, M., Anderson, S. W., Dawson, J., & Nawrot, M. (2000). Visual function and cognitive deficits with cerebral lesions. *Investigative Ophthalmology and Visual Science*, 41, S434.
- Rizzo, M., Dawson, J., McGehee, D. V., Mitchell, R., Bierbaum, S., Raby, M., Anderson, S. (2000, May 28-31). Driving with distraction after closed head injury. Symposium on sleepy drivers and pilots. 17<sup>th</sup> World Congress of the International Association for Accident and Traffic Medicine (IAATM), Stockholm, Sweden.
- Rizzo, M., Anderson, S. W., Dawson, J., & Nawrot, M. (2000, May 2). Visual function and cognitive deficits with cerebral lesions. ARVO Annual Meeting, Fort Lauderdale, Florida.
- Razavi, M., Rizzo, M., Fattal, D., & Jones, R. D. (2000, February 9-12). Visual hallucinations in temporal arteritis. International Neuropsychological Society 28<sup>th</sup> Annual Meeting, Denver, Colorado.
- Rizzo, M., Nawrot, M., & Dawson, J. (1999, October 23-28). Separate processing of 1<sup>st</sup> and 2<sup>nd</sup> order motion in human brain. 29<sup>th</sup> Annual Meeting, Miami, Florida. *Society for Neuroscience Abstracts*, 25, Part 1, 275.
- Darling, W. G., Rizzo, M., Harper, J. G., Husnik, H., & Vedepo, A. (1999, October 23-28). Posterior parietal cortex lesion and kinesthetic perception of forearm orientation. Society for Neuroscience, Miami, Florida.
- Rizzo, M., & Akutsu, H. (1999). Prolonged attention blink and slower visual processing in aging. *Investigative Ophthalmology and Visual Science*, 40, S412.
- Rizzo, M. (1999, May 18). Driving and transportation issues in the elderly. International Symposium on the older driver, New York, New York.
- Rizzo, M., & Akutsu, H. (1999, May 11). Prolonged attention blink and slower visual processing in aging. Association for Research in Vision and Ophthalmology, Fort Lauderdale, Florida.
- Rizzo, M., & Akutsu, H. (1999, May 8). Attention blink and processing speed with focal right hemisphere lesions. 3<sup>rd</sup> Annual Vision Research Conference, Fort Lauderdale, Florida.
- Cole, K.J., Rizzo, M., Rotella, D. L., Darling, W. G., & Harper, J. G. (1999, April 11-16). Visual pathways for scaling grip forces. Society for Neural Control of Movement Meeting, Princeville, Hawaii.
- Darling, W. G., Rizzo, M., & Harper, J. G. (1999, April 11-16). The posterior parietal cortex contributes to visual perceptions of vertical visual perceptions. Society for Neural Control of Movement Meeting, Princeville, Hawaii.
- Rizzo, M., McGehee, D., Anderson, S., & Cumming, T. (1998, September). Prediction of driving safety errors in aging and cognitive impairment. Driver Health and Mobility Conference. Dawson J. Errors in aging and cognition impairment, Trinity College, Dublin, Ireland.
- Cumming, T., Rizzo, M., & Grant, P. (1998, June). Reliability of driving performance measures across upgrades to a high-fidelity motion-based simulator. ISATA 31st Annual Meeting, Duesseldorf, Germany.

- Rizzo, M., Cumming, T., Anderson, S., & Nawrot, M. (1998, May). Visual function profiles in Alzheimer's disease. ARVO Annual Meeting, Fort Lauderdale, Florida.
- Rizzo, M., Cumming, T., Anderson, S., & Nawrot, M. (1998). Visual function profiles in Alzheimer's disease. *Investigative Ophthalmology and Visual Science*, *39*, 5398.
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- Rizzo, M., McGehee, D., Dawson, J., & Cumming, T. (1998, February). Simulated intersection collisions in drivers with Alzheimer's disease. International Neuropsychological Society Annual Meeting, Honolulu, Hawaii.
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- Rizzo, M. (1997, July 24). Safe driving - driving ability in old age. Association for the Advancement of Injury Control, Washington, DC.
- Rizzo, M., McGehee, D., Cumming, T., Dawson, J., & Laird, K. (1997). Simulated crashes at intersections in drivers with Alzheimer's disease. *The American Neurological Association*, *42*, 394.
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- Rizzo, M., Reinach, S., & McGehee, D. (1996, November 7-8). Dissecting a car crash in high-fidelity simulation. Symposium on Simulation and Traffic Psychology. European Chapter of the Human Factors and Ergonomics Society, Groningen, The Netherlands.
- Butler, A. J., Darling, W. G., Rizzo, M., Shoen, T. B. (1996). Evidence for blindsight in patients with homonymous hemianopia. *Society for Neuroscience Abstracts*, *22*, 885.
- Rizzo, M., McGehee, D. V., Dingus, T. A., & Petersen, A. D. (1996, May). Development of an unobtrusively instrumented field research vehicle for objective assessment of driving performance. International Conference on Traffic and Transport Psychology Symposium, València, Spain.
- Rizzo, M. (1996, May). Use of simulators in assessing demented drivers. Conference on Driving and dementia: Research, practice, and policy. Washington University School of Medicine, St. Louis, Missouri.
- Reinach, S. J., Rizzo, M., McGehee, D. V., & Dingus, T. A. (1996, May). Application of a hazard analysis technique to assess the safety of demented drivers. International Conference on Traffic and Transport Psychology Symposium, València, Spain.

- Rizzo, M. (1996, April 29). Night visibility and driver behavior. Biannual Symposium, Transportation Research Board. Iowa City, Iowa.
- Rizzo, M., Reinach, S., McGehee, D., & Dingus, T. A. (1996, April). Simulated car crashes and the useful field of view. ARVO Annual Meeting. Fort Lauderdale, Florida.
- Rizzo, M. (1996, March 21). Quantitative assessment of driving performance. Colloquium. Department of Psychology, North Dakota State University. Fargo, North Dakota.
- Rizzo, M., & Nawrot, M. (1996, March). The perception of structure-from motion in Alzheimer's disease. American Academy of Neurology Meeting, San Francisco, California.
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- Rizzo, M. (1995, June). Driving performance in old age and dementia. Center for Disease Control work-in-progress monitoring workshop. Southern California Injury Prevention Research Center. UCLA School of Public Health. Los Angeles, California.
- Rizzo, M. (1995, March 16). Medical applications of driving simulation. The 1995 Paul D. Scholz Symposium on Technology and its Role in Society. Tau Beta Pi National Engineering Honor Society. Iowa City, Iowa.
- Rizzo, M. (1995, January 29). Realistic simulation of driving and car crashes in aging and cognitively impaired drivers. Transportation Research Board National Research Council, Washington, D.C.
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- Rizzo, M., Watson, G., McGehee, D., & Dingus, T. (1994, November 18). Simulated driving and car crashes in Alzheimer's disease. Society for Neuroscience. Miami Beach, Florida.
- Rizzo, M. (1994, October 4). High fidelity driving simulation in neurological populations. Central Society for Neurological Research. Redwing, Minnesota.
- Rizzo, M. (1994, September 26-27). Proposal for driving licensure procedure in older drivers. Consensus Meeting on Road Safety. Vägverket (Swedish National Road Administration), Borlänge, Sweden.

- Rizzo, M. (1994, September 24). Preliminary studies of aging and cognitively impaired drivers on the Iowa Driving Simulator. Symposium on Aging and Driving. Karolinska Institute, Stockholm, Sweden.
- Rizzo, M., Watson, G., McGehee, D., & Dingus, T. (1994, June 27). Simulated driving and car crashes in aging and cognitively impaired drivers. European Neurological Society, Barcelona, Spain.
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- Rizzo, M. (1993, January). Neural control of limb movements under visual guidance. 18<sup>th</sup> Annual Interdisciplinary Conference, Jackson, Wyoming.
- Rizzo, M. (1992, September 22). Color perception in central dyschromatopsia. Optical Society of America, Albuquerque, New Mexico.
- Rizzo, M., Darling, W., Rotella, D., & Jacoby, R. (1992, June 29). Limb control in optic ataxia. European Neurological Society Meeting, Lausanne, Switzerland.
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- Rizzo, M., Blake, R., & Nawrot, M. (1991, April 28-May3). Human brain damage mimicking a V4 lesion. The Association for Research in Vision and Ophthalmology Annual Meeting, Sarasota, Florida.
- Rizzo, M., Darling, W., & Rotella, D. (1991, April 21-27). Abnormal reaching movements following unilateral damage in a human homolog of area MT. American Academy of Neurology Meeting, Boston, Massachusetts.
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- Rizzo, M., & Robin, D. (1989). Attentional failure in simultanagnosia: abnormal sensitivity and response bias in competing neural channels. *Neurology*, 39, 318.
- Robin, D. A., Rizzo, M., & Emrich, K. (1989, June). Changes in attentional abilities as a function of normal aging and dementia. Clinical Aphasiology Conference, Lake Tahoe, Nevada.
- Robin, D. A., Rizzo, M., & Brobeck, T. C. (1989). The effect of focal cerebral lesions on intramodal and crossmodal orienting of attention. Clinical Aphasiology Conference, Harwich, Massachusetts.
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- Rizzo, M., Hurtig, R., & Milder, M. (1988). Automated clinical color vision testing. International Neuro-Ophthalmological Society, Vancouver, British Columbia.
- Rizzo, M., & Robin, D. (1988, June 19-22). Evidence for a cerebral attention network from automated probes of human lesions. First Meeting of the European Neurological Society, Nice, France.
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- Rizzo, M. (1987). Luminance saturation and hue in central achromatopsia: Seeing contour and colour. Satellite Symposium of 2nd World Congress of Neuroscience, Northern Eye Institute, Manchester, England.
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- Rizzo, M., Corbett, J. J., Thompson, H. S., & Damasio, A. R. (1985). Spatial contrast sensitivity in impaired learning and recognition of faces. *Society for Neuroscience Abstracts*, *Vol. 2, Part 1985;1*, 229.
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- Eslinger, P. J., Damasio, H., Rizzo, M., & Huang, H. K. (1983). Quantitative analysis of CT in the diagnosis of dementia. *Neurology*, *33 (Suppl.2)*, 201.
- Damasio, A., Damasio, H., Rizzo, M., Varney, N., & Gersh, F. (1981). Aphasia with non-hemorrhagic lesions in the basal ganglia and internal capsule. *Neurology*, *31*, 82.

## **Reviews**

- Rizzo, M. (2005). *Complex Worlds from Simpler Nervous Systems*. F.R. Prete, (Ed.), (Cambridge, MA: Bradford MIT Press, 2004). *Annals of Neurology*, *57*, 935-936.
- Rizzo, M. (2000). *To Err is Human: Building a Safer Health System*, by Institute of Medicine (Washington DC: National Academy Press, 2000). Prepared for *American Academy of Neurology*.
- Rizzo, M. (1998). *Language, Communication, and the Brain*, edited by Fred Plum. *Neurology*, *38*, 1901.
- Rizzo, M. (1996). *The Neuropsychology of High-level Vision*. Collected tutorial essays, edited by Martha J. Farah and Graham Ratcliffe. *Contemporary Psychology*, *41*, 374-376.
- Rizzo, M. (1995). *The Man who Tasted Shapes*, by Richard Cytowic. *Neurology*, *45*, 1243.
- Rizzo, M. (1991). *Visual Agnosia: Disorders of Object Recognition and What They Tell Us of Normal Vision*, by Martha J. Farah. *Optics and Photonics News*, December, 1991.
- Rizzo, M. (1989). *Synesthesia: A Union of the Senses*, by Richard Cytowic. *Neurology*, *39*, 1413.
- Rizzo, M. (1987). *Blindsight: A Case Study and Implications*, by Larry Weiskrantz. *Trends in Neurosciences*, *10*, 439-440.

**Letters to the Editor**

Rizzo, M. (2005). An AUPN/ANA survey of department leader opinions on the health of US academic neurology. *Neurology*, 64, 1664.

Rizzo, M. (1993). Visual cortical dysfunction. *Neurology*, 43, 453-454.

Rizzo, M. (1989). Chromesthesia. *Neurology*, 39, 1409-1410.

Rizzo, M., & Hurtig, R. (1988). Microsaccades in vision. *Neurology*, 38, 664-665.

Rizzo, M. (1986). Measuring contrast sensitivity. *Annals of Neurology*, 20, 374-375.

**University of Iowa Health Care Publications**

Rizzo, M. (2002). Driving simulator in a hospital environment. *Currents* Winter 2002; 3/1.

**Research - Lectures, Colloquia, Presentations****Invited Lectures, Workshops, and Colloquia**

Invited Speaker: Driving Simulation and Development of Countermeasures in Older Drivers. University of Kansas Medical Center. Kansas City, Kansas, April 18, 2008.

Invited Speaker: Neuroergonomics: The Aging Brain. Gerontology Center. University of Kansas, Lawrence, Kansas, April 17, 2008.

Invited Speaker: "Can I drive? Can I fly?" American Academy of Neurology Annual Meeting, Chicago, Illinois, April 14, 2008.

Invited Plenary: "Homage to Lorenz: Measuring Human Behavior and Performance in the Real World". 36<sup>th</sup> Annual INS Meeting, Waikoloa, Hawaii, February 6-9, 2008.

Invited Speaker: "Cognitive Impairments and Instrumented Vehicles." Symposium on using instrumented vehicles to study driving and dementia. Committee on Safe Mobility of Older Persons. Transportation Research Board. 87<sup>th</sup> Annual Meeting, Washington DC, January 15, 2008.

Invited Speaker: Parkinson's Disease Foundation 50th Anniversary Symposium, College of Physicians and Surgeons of Columbia University, New York, October 11-12, 2007

Invited Speaker: "Neuroergonomics of Visual Cognition: Research and Application." Human Factors and Ergonomics Society, 51<sup>st</sup> Annual Meeting. Baltimore, October 2, 2007.

Featured Speaker: "Alzheimer's Disease 2007: Challenges and Opportunities Through the Stages". Alzheimer's Disease Research Center, University of California Irvine, Irvine, California, September 20-21, 2007.

Host Committee Member: Driving Simulator Conference-North America (DCS-NA), Iowa City, Iowa, September 12-14, 2007.

Invited Speaker: Special Symposium Honoring Vivianne Smith and Joel Pokorny, University of Chicago Department of Ophthalmology & Visual Science, Chicago, Illinois, September 6-7, 2007.

Invited Speaker: Visual Attentional Impairments and Driving. In: Hot Topics in Neuro-ophthalmology: Rehailitation of Visual Field Defects and Hemineglect. American Academy of Neurology Annual Meeting, Boston, May 5, 2007.

Keynote Speaker: International Traffic Medicine Association – 20th World Congress, Royal Automobile Club of Victoria, Melbourne, Australia October 16, 2006.

Invited Speaker: In-vehicle alerting and warning countermeasures in visually impaired drivers. Monash University, Melbourne, Australia, October 13, 2006.

Featured Speaker: From Neuropsychology to Neuroergonomics: the Cognitive Continuum. European Societies of Neuropsychology, Toulouse, France, October 20, 2006.

Featured Speaker: workshops on “The use of a driving simulator to promote safe driving”. Montreal Rehabilitation Institute, Montreal, September 28, 2006.

Featured Speaker: Alzheimer’s Disease Research Centers of California, Predictions of driver safety in aging and dementia. UCLA Conference Center at Lake Arrowhead, CA September 14, 2006

Invited Speaker: Forum on Traffic Records, Palm Desert, California, July 30, 2006.

Featured Speaker: British Columbia Driving and Function Forum, Ministry of Public Safety and Solicitor General, Vancouver, Canada, June 15-16, 2006.

Anderson/Dickson Lectureship, Dalhousie University, Halifax, Nova Scotia, Canada, May 30, 2006

Featured Speaker. Dalhousie University Neurosciences Seminar. Visual dysfunction produced by focal brain lesions. Halifax, Nova Scotia, May 31, 2006.

Featured Speaker: Neurology/Geriatric Medicine Lectures. Dalhousie University, Halifax, Nova Scotia, Canada, May 30, 2006.

Keynote speaker- Traffic and road safety international congress " new technologies and new approaches ", Ankara, Turkey, May 17-19, 2006

Invited Speaker: Driving and Dementia - American Academy of Neurology Guidelines. Pre-conference workshop, International Conference on Aging Disability and Independence, St. Petersburg, Florida, February 1, 2006

- Keynote Speaker: "Driving errors and countermeasures in aging and disabled drivers". International Conference on Aging Disability and Independence, St. Petersburg, Florida, February 2, 2006
- Invited Panel Discussant/ Moderator. Where is driver assessment heading? Can driver assessment be related to functional limitation? February 3, 2006, Saint Petersburg, Florida
- Workgroup: Ethics/Professionalism/Research/Education. American Academy of Neurology. 2006-
- Invited lecture. Instrumented Vehicles and Safe Mobility of Older Persons In: Methodological Advances in Studying On-Road Driving Performance and Habits in Older Drivers. Transportation Research Board, Annual Meeting, Washington, D.C., January 23, 2005
- Invited lecture. Use of driving simulation to assess driving competence. Assessing Driving Safety of Senior Drivers: Clinical Issues and Research Findings Conference, University of Virginia, VA, October 9, 2004.
- Invited lecture: Neuroergonomics: Brains on the Road. Department of Neurology, Mayo Clinic, Rochester, Minnesota, June 28, 2004.
- Invited lecture: The Eye and The Auto 2003. 4<sup>th</sup> Research Colloquium. The Detroit Institute of Ophthalmology. Detroit MI. June 16, 2003.
- Invited lecture: Wrecks, plaques and videotape. Washington-Idaho-INO Conference, University of Utah, Salt Lake City, UT, October 2002.
- Invited lecture: Vision, action and brain damage. WINO Conference, University of Utah, Salt Lake City, UT, October 2002.
- Invited lecture: Vision, vehicles, and brain lesions. Neurosurgery Research Conference, University of Iowa Hospitals and Clinics, July 12, 2002.
- Invited lecture: Fitness to drive in neuropsychiatric disorders and cognitive aging. Geriatric Psychiatry Topic Seminar, University of Iowa Hospitals and Clinics, June 24, 2002.
- Discussion Group Facilitator: Systems for safety. 1<sup>st</sup> Annual Patient Safety Colloquium. American Academy of Neurology 54<sup>th</sup> Annual Meeting. Denver, CO. April 14, 2002.
- Invited lecture: Neuroergonomics: sick brains, simulators, and smart cars. Department of Neurology, University of Alabama at Birmingham. April 5, 2002.
- Invited lecture: Predictions of driver safety in advancing age and neurological disease. Milton S. Hershey Medical Center. Hershey, PA. November 30, 2001.
- Invited lecture: Visual dysfunction and brain damage. Milton S. Hershey Medical Center. Hershey, PA. November 30, 2001.
- Invited lecture: Eye, brain, and performance in at-risk older drivers. The Eye and The Auto 2001. 2<sup>nd</sup> Research Colloquium, The Detroit Institute of Ophthalmology. Detroit MI, June 14-16, 2001.

Workshop participant: Predictions of driver error in simulated driving tasks. Human Factors Workshop #7. Transportation Research Board 78th Annual Meeting, Washington, DC, January 10, 1999.

### **Research - Grants and Projects**

Gaming and cognition. [REDACTED] PI- Matthew Rizzo. 2007-2008

Predictions of Driver Safety in Advancing Age. 2 R01 AG017177. PI – Matthew Rizzo. 2006-2011.

In-Car Technology to Alert Attention Impaired Drivers. R01 AG026027. PI – Matthew Rizzo. 2006-2010

Nissan. 2005. Q45 to develop the Nissan Iowa Instrumented Vehicle for Advanced Neuroergonomic Assessment (NIRVANA).

Residual Effects of Ecstasy on Decision-Making and Driving. NIDA R01 DA17341. Co-PI: Matthew Rizzo. 2005-2010

Predicting Driver Safety in Parkinson's Disease. R01 NS044930-01A1. Co-PI: Matthew Rizzo. 2003-2008.

Vision Impairment and Fitness to Drive. ARC LP0560272. Commonwealth of Australia, Australian Research Council Linkage Project, 2005 – 2008 (Brian Fildes, Monash University Accident Research Centre, PI) Co-Investigator: Matthew Rizzo. 2005-2007.

Effects of Phenytoin on Driving Safety. R49/CCR 721682. Co-PI: Matthew Rizzo. 2006-2008

Transient effects and tolerance: A pilot study of two antihistamines on driving performance. University of Iowa Injury Prevention Research Center. National Center for Injury Prevention and Control/Centers for Disease Control 2006. (PI: Gary Milavetz, PharmD) Co-PI: Matthew Rizzo.

Virtual Environments for Assessing Fitness to Drive. Digital Artefacts. NIH/SBIR. PI: Joan Severson. Subproject PI: Matthew Rizzo. 9/30/2003 – 6/30/2005.

Gender Liability to the Effects of Marijuana on Driving (Beth Turner, PhD Candidate), supported by "Acute marijuana effects on regional cerebral blood flow" from NIDA (Dan O'Leary PI), the Innovative Neuroimaging Technologies Training Program, (T32 CA82106 and R01 DA10551, 11/1/03 to 10/31/08) and the General Clinical Research Center (M01-RR-59 National Center for Research Resources, General Clinical Research Center Program, NIH. (Co-Mentor and Collaborator, Matthew Rizzo)

The Effects of Chemotherapy on Decision-Making in Older Colon Cancer Patients, Pilot Project, Natalie Denburg, PhD., PI (supported by NCI/NIA grant program P20 CA 103672-03, The University of Iowa Cancer and Aging Program (Robert Wallace, PI). (Collaborator).

Establishing a Registry and Database for Tracking the Safety of Drivers with Sleep Apnea. National Center for Injury Prevention and Control. R49-CCR721682-02. Co- Investigator: Matthew Rizzo. 2004-present.

**Completed**

Anatomical Basis of Vision (Project 3): Program Project: Anatomical Substrates of Complex Behavior. NIH PO NS-19632; Co-investigator, 1983-1986. Co-principal investigator, 1986-1991; Principal Investigator (Proj 3): 1991-1996; 1996-2001; 2001-2006.

Safe and Unsafe Driving in Old Age, Alzheimer's Disease, and Stroke. NIA RO1 AG NS15071. Principal Investigator. 1999-2006.

Development of an Internet Technological Platform on Driving Simulators for Clinical Populations: A Pilot Study. Social Sciences and Humanities Research Council of Canada. (PI, Marie Vanier, Institut de réadaptation de Montréal, Québec, Canada Co-Investigator: Matthew Rizzo. 2005-2006.

Driver Impairment, Self-awareness and Crash-Risk in Obstructive Sleep Apnea Syndrome (Subproject of: The University of Iowa Injury Prevention Research Center. CDC. R49 CCR 721682). Subproject PI: Matthew Rizzo. Subproject Award Dates: 2002-2005

Predictions of Driver Safety in Advancing Age. NIA. R01 AG17177. Principal Investigator. 1999-2004.

Enhancing Mobility in the Elderly, Project 1. Edward R. Roybal Center for Research in Applied Gerontology. NIA P50 AG11684. Co-Investigator, 1993-1998. Principal Investigator. 1998-2003.

Predicting Driver Safety in Parkinson's Disease: A Pilot Study. New Investigator Research Award from College of Public Health, University of Iowa. Co-Investigator: Matthew Rizzo. Jan-Dec 2003.

Effects of declining attention on object recognition and localization in older adults. National Research Service Award, National Institutes of Aging, NIH. Sponsor, 1998-2000.

Parietal lesion effects on sensorimotor transformations. R01 NS 34895. Co-Investigator, 1997-2000.

Driving performance of older drivers. National Research Service Award, National Institutes of Aging, NIH. Sponsor, 1997-1998.

Driving after head injury. Project in Injury Prevention Research Center. CDC R49/CCR 703640. Principal Investigator, 1996-1999.

Driving ability and car crashes in old age and dementia. CDC R49/CCR710136. Principal Investigator. 1996-1999.

High fidelity driving simulation. CDC Pilot Project. R49/CCR703640. Principal Investigator, 1994-1995.

Visual perception deficits following human cerebellar lesions. Medical Research Council of Canada. Sponsor, 1991-1993, 1993-1995.

Modeling kinetic depth perception: clues from focal human brain lesions. Natural Sciences and Engineering Research Council of Canada. Sponsor, 1991-1993.

Modeling kinetic depth: clues from focal human brain lesions. Medical Research Council of Canada. Sponsor, 1991-1993, 1993-95.

The interaction of kinetic depth and stereopsis: clues from focal human brain lesions. McDonnell-Pew Program in Cognitive Neuroscience. Sponsor, 1991-94.

Studies of speech articulation. R01 NS07555. Consultant, 1986.

NIH biomedical research support grant. RR 05372. Principal investigator, 1985-1986.

## **Service**

### **Membership -Professional Societies and Organizations**

- 2000 Human Factors and Ergonomics Society
- 1999 Iowa Medical Society
- 1999 American Medical Association
- 1997 American Academy of Neurology
- 1995 American Neurological Association
- 1994 Medical Factors Subcommittee, Transportation Research Board
- 1993 Optical Society of America
- 1991 Central Society for Neurological Research
- 1990 European Neurological Society
- 1986 Society for Neuroscience
- 1986 New York Academy of Science
- 1986 Association for Research in Vision and Ophthalmology
- 1985 American Academy for the Advancement of Science
- 1984 Behavioral Neurology Society
- 1981 American Academy of Neurology

### **Committees, Boards, Task Forces - University of Iowa**

Committee to Review the Department of Biostatistics in the University of Iowa College of Public Health.

Executive Committee, Public Policy Center, University of Iowa, 2007-present

Iowa Institute for Clinical and Translational Research, Neurology Department Representative, 2007-



Committee on Human Factors, National Research Council, National Academies of Sciences. Selected as Member, 2007-present



U.S. Food and Drug Administration Advisory Committee, Center for Drug Evaluation and Research, Peripheral and Central Nervous System Drugs, 2005-present

American Academy of Neurology Clinical Research Subcommittee – Practice Committee Workgroup for establishing research priorities within the National Institute for Neurologic Disorders and Stroke.

Patient Safety Subcommittee – Practice Committee, American Academy of Neurology, founding member 2003-2007

Ethics, Law and Humanities Committee American Academy of Neurology/ American Neurological Association Liaison 2004 -

Committee on Safe Mobility of Older Persons, A3B13 (Section B) - Users and Vehicles, Transportation Research Board, 2003-present

Clinical Research Subcommittee (CRS), American Academy of Neurology, 2001-2007

Member Demographics Subcommittee [formerly Practice Characteristics Subcommittee, 2001-2002], American Academy of Neurology, 2001-2007

Quality Standards Subcommittee (liaison from CRS), American Academy of Neurology, 2001-2007

Public Policy Committee, American Neurological Association, 2000-2004  
- Chair, 2001-2004, 2004 ex-officio member

Patient Safety Subcommittee [formerly Patient Safety Workgroup, 2000-2003] American Academy of Neurology, 2000-2007

Legislative Affairs Committee, American Academy of Neurology, 1997-2005

Chair, Key Contacts Program, Legislative Affairs Committee, American Academy of Neurology, 1997-2005

Transportation Research Board, National Research Council, Medical Factors Subcommittee, 1994-present

U.S. Department of Transportation Task Force: Neurological Standards for Truckers – Guidelines for Higher Cortical Function, 1988

### **Editorships, Editorial Boards, and Review Panels**

Grant Reviewer for the AAN Clinical Research Training Fellowships

Grant Reviewer for the AAN-Spinal Muscular Atrophy Foundation, Spinal Muscular Atrophy Young Investigator Awards.

Reviewer: National Institute for Aging, National Cancer Institute

Reviewer: U.S. Veteran's Administration

Reviewer, NIH-NCCAM (National Center for Complementary and Alternative Medicine) Consortial Center for Chiropractic Research (CCCR)

Reviewer:

*Archives of Neurology*

*Archives of Ophthalmology*

*Brain*

*Brain and Behavioral Science*

*Contemporary Psychology*

*Cortex*

*Journal of Cognitive and Experimental Neuroscience*

*Journal of Neurology, Neurosurgery and Psychiatry*

*Journal of Neuroophthalmology*

*Journal of Optics and Photonics*

*Mayo Clinic Proceedings*

*Neurology*

*Neuropsychiatry, Neuropsychology and Behavioral Neurology*

*Neuropsychologia*

*Ophthalmology*

*Trends in Neurosciences*

Others.

**Service Positions - Departmental, University,**

Ambulatory Errors in Neurology, AAN-University of Iowa-American Academy of Family Practice Collaborative Project Lead Investigator 2004-2005

Director, Psychopharmacology Journal Club, 2003-2006

Director, Neuroergonomics Seminar, 2001- present

Sponsor, First Annual Iowa Medical Society/Iowa Medical Society Alliance Mini-Internship Program, University of Iowa, Department of Neurology, 2001

Participant, Journal Club, Department of Neurology, University of Iowa, 2000-present

Reviewer, Alzheimer's Society Research Project Grants, Queen Square, London UK, 2000

Reviewer, Committee to Review the Office of the Provost, Central University Administration and Faculty Council, University of Iowa, 2000-2003.



Mentor, NRSA Training Program, UI Center on Aging,

Reviewer, NRSA Applications, Center on Aging Executive Committee, University of Iowa

**Clinical Assignments**

Attending physician, Inpatient Acute Care, Diagnostic, and Consult Services, 1985-present

Attending physician, The University of Iowa Hospitals & Clinics, Neurology Outpatient Clinic, 1982-present; Memory Disorders Clinic, 1983-present

**Contact Information:**

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