

Grover C. Gilmore

Case Western Reserve University
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Education

Ph.D. The Johns Hopkins University, Baltimore, Maryland 1975 (Psychology)
M.A. The Johns Hopkins University, Baltimore, Maryland 1974 (Psychology)
A.B. Brandeis University, Waltham, Massachusetts 1971 (Psychology)

Faculty Appointments

2002-present Professor of Social Work, Jack, Joseph and Morton Mandel School of Applied Social Sciences, Case Western Reserve University
1975-present Professor of Psychology (1994), Associate Professor with tenure (1981), Assistant Professor (1975-1981), Department of Psychology, Case Western Reserve University.
1974-1975 Instructor, Department of Psychology, Towson State College, Towson, Maryland.

Administrative Experience, CWRU

2002-present Jack, Joseph, and Morton Mandel Dean in Applied Social Sciences (June, 2013), Dean (July 1, 2002), (Interim Dean, January – June, 2002) Jack, Joseph, and Morton Mandel School of Applied Social Sciences
2000-2001 Associate Dean, College of Arts and Sciences. Primarily responsible for facilities and research with special interest in undergraduate advising and retention.
1999-2000 Acting Chair, Department of Statistics
1994 Acting Chair, Department of Psychology
1985-1990 Chair, Department of Psychology
1988-1990 Director, Teaching Clerkship Program, Department of Psychology
1983-1987 Director, Experimental Psychology Program, Department of Psychology

Leadership, Faculty Governance, CWRU

1999-2000 Executive Committee, College of Arts & Sciences, Chair
1992-1993 Executive Committee, General Faculty, Chair
1992-1993 Faculty Senate, University Libraries Committee, Chair
1989-1990 Faculty Senate, Chair
1988-1989 Faculty Senate, Vice Chair

Professional Experiences

2014 CSWE 2014 APM Field Summit Planning Committee

- 2009, 2011 John A. Hartford Leadership Academy, Invited Panelist, New York Academy of Medicine
- 2007-2009, 2011-12 National Science Foundation, Panelist
- 2008-2011 John A. Hartford Foundation Graduate Fellowship Panel
- 1995 National Institutes of Health, Member of Behavioral and Neurosciences Special Emphasis Panel
- 1984 National Institutes of Health, Special Study Section Member and Project Site Visitor.
- 1979-1982 Research Psychologist, Veterans Administration Medical Center, Cleveland, Ohio. Co-Investigator on V.A. funded project investigating the processing of stimulus structure by the elderly.
- 1971-1974 Teaching Assistant, Department of Psychology, The Johns Hopkins University; Supervised by Drs. Howard Egeth, Bert Green Jr., Warren Torgerson, Clinton DeSoto.
- 1969-1971 Research Assistant, Brandeis University, in psychophysics with Dr. Sidney Stecher.
- 1968-1971 Research Assistant, Brandeis University, in human spatial orientation with Dr. Ricardo B. Morant.

Professional Organizations

American Psychological Association
 Division 3, Experimental
 Division 20, Adult Development and Aging
 Association for Psychological Science
 Association for Research in Vision and Ophthalmology
 Visual Psychophysics & Physiological Optics Division
 Council on Social Work Education
 Eastern Psychological Association
 Gerontological Society of America, Fellow
 International Society for Intelligence Research
 National Association of Deans and Directors of Social Work
 National Association of Social Workers
 Psychonomics Society, Fellow
 Sigma Xi
 Society for Social Work Research
 St. Louis Group of Deans of Social Work in Research Universities, Secretary, 2009-2011
 Vision Sciences Society
 Women in Cognitive Science

Major University Service Activities (*current*)

Dean, Mandel School of Applied Social Sciences, 2002-
 University Budget Committee, 2013-
 Case Comprehensive Cancer Center:

Internal Advisory Board Member, 2005-
 University Center on Aging and Health:
 Steering Committee, 1989-1995; Advisory Board, 1984-1995; Senior Faculty
 Associates, 1984-

Advisory Boards and Community Service

Current

Cleveland Hearing and Speech Center, Board of Directors, Cleveland, 2002-
President, 2010-2012
 University Center on Aging and Health, CWRU, 1984-
 University of Denver, School of Social Work, Mentor to Dean James Herbert Williams,
 2008-
 University of Denver, School of Social Work, Member of Board of Visitors, 2009-
 University of New England, Board of Trustees, 2011-
Co-Chair, Academic Affairs Committee, 2011-
Co-Chair, Student Affairs Committee, 2012-

Past

Alzheimer Disease Center of University Hospitals of Cleveland, 1987-2000
 Boy Scouts of America, Greater Cleveland Council, Board of Directors, 2005-2014
 Center on Adolescent Health, Advisory Board, School of Medicine, CWRU, 2002-2006
 City of Cleveland Community Reentry Advisory Committee, 2003-2006
 Data Collection, Analysis, and Evaluation Subcommittee, Chair, 2004-2006
 Council on Social Work Education:
 Council on Leadership Development, 2005-2006
 Office of Social Work Education and Research Committee, 2006
 American Academy of Social Work and Social Welfare, Workgroup, 2009
 Health Science Advisory Board, ARCO, Los Angeles, 1989-1992
 Magnolia House, Board of Directors, 2003-2013, President, 2005-2013
 Office of Geriatric Medicine, School of Medicine, CWRU, 1990-1995
 Teaching Nursing Home Program, School of Medicine, CWRU, 1987-1995
 Tools for Tomorrow, 2005-2008

Editorial Board Member

Intelligence: A Multidisciplinary Journal

Editorial Consultant

Alzheimer's and Dementia
 British Journal of Psychology
 Gerontologist
 Intelligence
 Journal of Abnormal Psychology
 Journal of Alzheimer's Disease
 Journal of Gerontology: Psychological Sciences
 Journal of the International Neuropsychological Society
 Memory and Cognition

Neuro-ophthalmology
 Neuropsychologia
 Neuropsychology
 Optometry and Vision Science
 Perception & Psychophysics
 Psychology and Aging
 Psychological Assessment
 Vision Research

Current Grant Funding (Direct Costs only)

National Institutes of Health, R01 AG030114, "Therapeutic effects of cataract removal in Alzheimer's disease", Principal Investigator: Grover C. Gilmore, 2009-2015, \$1,829,937.

Previous Grant Funding (Direct Costs only)

National Institutes of Health, R01 NS052914, "Effect of Visual Signal Strength on Alzheimer Cognition", Principal Investigator: Grover C. Gilmore, 2005-2010, \$967,129. Subcontract to grant of the same name by PI: Alice Cronin-Golomb at Boston University. The funding reported here is the CWRU portion of the grant.

National Institutes of Health, R01 EB004070, "Quantitative Image Quality for Optimization of MRI", Principal Investigator, David Wilson, Co-Investigator: Grover C. Gilmore (5%), 2004-2008, \$225,000.

National Institute on Aging, R01 AG15361, "Visual Interventions to Improve Alzheimer Cognition", Principal Investigator: Grover C. Gilmore (22%), Co-Investigators: David Wilson, Elisabeth Koss, Julie Belkin, 1999-2005, \$779,978. Subcontract to grant of the same name by PI: Alice Cronin-Golomb at Boston University. The funding reported here is the CWRU portion of the grant.

National Heart, Lung, and Blood Institute, "Perception and Processing of X-ray Fluoroscopy Images", Principal Investigator: David Wilson, Co-Investigator: Grover C. Gilmore (5%), 2001-2004.

Alzheimer's Association, "Detection and Correction of Cognitive Deficits Via Visual Manipulation in AD", Principal Investigator: Grover C. Gilmore, 1998-2001, \$51,136. Subcontract to grant of the same name by Alice Cronin-Golomb at Boston University. The funding reported here is the CWRU portion of the grant.

National Institute on Aging, "Contrast Enhancement and Reading in Alzheimer's Disease", Principal Investigator: Grover C. Gilmore, Co-Investigators: Cecil W. Thomas, Elisabeth Koss, Bernd Remler, 1994-2000, \$558,110.

National Heart, Lung, and Blood Institute, "Perception and Processing of X-ray Fluoroscopy Images", Principal Investigator: David Wilson, Co-Investigators: Grover C. Gilmore, Cecil W. Thomas, 1993-1997, \$290,000.

Pepper Program, CWRU, "Enhanced visual cues and agitation in Alzheimer's disease", Principal Investigator: Elisabeth Koss, Co-Investigators: Grover C. Gilmore, Bernd Remler, 1995, \$10,166

National Institute on Aging, "Visual Dysfunctions in Alzheimer's Disease", Co-Principal Investigators: Grover C. Gilmore and Elisabeth Koss, Co-Investigators: Cecil W. Thomas, Peter Whitehouse, Bernd Remler, David Bardenstein, 1993-1995, \$147,731; Project in Alzheimer Center Program, Program Director, Peter Whitehouse.

Scottish Rite Foundation, "Relationship between motion perception and smooth pursuit performance in schizophrenia"; Principal Investigator: Lee Friedman; Co-Investigator: Grover C. Gilmore; 1992-1994, \$68,997.

National Institute on Aging, "Olfactory and visual information processing", Principal Investigator: Elisabeth Koss, Co-Investigator: Grover C. Gilmore, 1990-1991, \$23,000.

National Institutes of Health Small Instrument Grant, "Eye movement recording in healthy and cognitively impaired adults", Co-Principal Investigators: Douglas Detterman, Grover C. Gilmore, Milton Strauss, 1990-1991, \$5,880.

National Institute on Aging, "Health Research in Aging", (Training Grant) Co-Principal Investigators: Eva Kahana, Grover C. Gilmore, May Wykle, 1988-1993, \$316,208.

National Institute on Aging, "Visual Perception in Alzheimer's Disease", Principal Investigator: Grover C. Gilmore, Co-Investigators: Mario Mendez, Cecil Thomas, and Peter Whitehouse, 1988-1993, \$437,620; Project in Teaching Nursing Home Program, Program Director, Amasa Ford.

National Institute on Aging, "Global form analysis deficit in the elderly", Principal Investigator: Grover C. Gilmore, Co-Investigator: Fred L. Royer, 1983-1986, \$185,541.

National Institute on Aging, "Processing deficit in aging: A transient channel problem", Principal Investigator: Fred L. Royer, Co-Investigator: Grover C. Gilmore, 1983-1986, \$169,765.

Research Initiation Grant from the Teaching Nursing Home Program, Case Western Reserve University, "Aging and Visual perception: Neurophysiological and psychophysiological changes". Grover C. Gilmore, 1985-1986, \$8400.

Biomedical Research Support Grant, "Parafoveal acuity and aging", 1983-1984, \$5000.

National Institute on Aging, "Processing in aging: Global form analysis deficit", Principal Investigator: Grover C. Gilmore, Co-Investigator: Fred L. Royer, 1982-1983, \$37,333.

National Heart, Lung, and Blood Institute, "Respiratory sensations and control of breathing", Principal Investigator: Murray Altose, Co-Investigators: Grover C. Gilmore, Neil Cherniak, and Iyan Shaban, 1981-1985.

Ohio Department of Mental Health, "Very short-term memory in children with learning disability", 1978-1979, \$2809.

Biomedical Research Support Grant, "Symbol-digit and block design testing", 1978, \$1310.

Provost's Fund Award, CWRU, "Feature impletion among letters", 1976, \$500.

National Institute of Mental Health Training Grant Fellowship, 1971-1975.

Teaching Awards

John S. Diekhoff Award for Distinguished Graduate Teaching, Case Western Reserve University, 1984.

Nominated for Undergraduate Teaching Excellence Award, Case Western Reserve University, 1991, 1999

Nominated for Wittke Teaching Award for Undergraduate Teaching, Case Western Reserve University, 1981, 1997, 1998, 1999, 2001.

Publications

Albers, M., Gilmore, G. C., Kaye, J., Murphy, C., Wingfield, A., Bennett, D., Boxer, A., Buchman, A., Cruickshanks, K., Devanand, D. P., Duffy, C. J., Gall, C. M., Gates, G. A., Granholm, A., Hensch, T., Holtzer, R., Hyman, B. T., Lin, F. R., McKee, A. C., Morris, J. C., Petersen, R. C., Silbert, L. C. Struble, R. C., Trojanowski, J. Q., Verghese, J., Wolson, D., Xu, S., Zhang, L. I. (in press). At the interface of sensory and motor dysfunctions and Alzheimer's Disease. *Alzheimer's & Dementia*.

Barth, R.P., Gilmore, G.C., Flynn, M., Fraser, M.W., & Brekke, J. (in press). The American Academy of Social Work and Social Welfare: History and Grand Challenges. *Research on Social Work Practice*.

Toner, Chelsea K., Reese, Bruce E., Nearing, Sandy, Riedel, Tatiana, M., Gilmore, Grover C., & Cronin-Golomb, Alice. (2012). Vision-fair neuropsychological assessment in normal aging, Parkinson's disease and Alzheimer's disease. *Psychology and Aging*, 27, 785-790. doi: 10.1037/a0026368

Seichepine, D. R., Nearing, S., McCallum, M., Tabor, K., Riedel, T. M., Gilmore, G. C., & Cronin-Golomb, A. (2012). Luminance Affects Age-Related Deficits in Object Detection: Implications for Computerized Psychological Assessments. *Psychology and Aging*, 27, 522-528. doi: 10.1037/a0025576

Laudate, T.M., Nearing, S., Dunne, T.E., Sullivan, K.D., Joshi, P., Gilmore, G.C., Tatiana Riedel, T.M., Cronin-Golomb, A. (2011). Bingo! Externally-supported performance intervention for deficient visual search in normal aging, Parkinson's disease and Alzheimer's disease. *Aging, Neuropsychology, and Cognition*, special issue on "Cognitive and Motivational Mechanisms Compensating for the Limitations in Performance on Complex Cognitive Tasks across the Adult Life-Span, 19, 102-121. doi:10.1080/13825585.2011.621930
Publicly available at:
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3275685/pdf/nihms336189.pdf>

Seichepine, D. R., Nearing, S., Miller, I. N., Tatiana M. Riedel, Riedel, T. M., Gilmore, G. C., & Cronin-Golomb, A. (2011). Relation of Parkinson's Disease Subtypes to Visual Activities of Daily Living. *Journal of the International Neuropsychological Society*, 17, 841-852. doi:10.1017/S1355617711000853

- Cronin-Golomb, A., Gilmore, G. C., Nearing, S., Morrison, S. R., & Laudate, T. M. (2007). Enhanced stimulus strength improves visual cognition in aging and Alzheimer's disease. *Cortex*, 43, 952-966.
- Gilmore, G. C. (2007). Inappropriate use of covariate analysis renders meaningless results. *Journal of the International Neuropsychological Society*, 13, 370.
- Gilmore, G. C., Spinks, R. A., & Thomas, C. W. (2006). Age Effects in Coding Tasks: Componential Analysis and Test of the Sensory Deficit Hypothesis. *Psychology and Aging*, 21, 7-18.
- Gilmore, G. C., Cronin-Golomb, A., Nearing, S. A., & Morrison, S. R. (2005). Enhanced stimulus contrast normalizes visual processing of rapidly presented letters in Alzheimer's disease. *Vision Research*, 45, 1013-1020.
- Gilmore, G. C., Groth, K. E., & Thomas, C. W. (2005). Stimulus contrast and word reading speed in Alzheimer's disease. *Experimental Aging Research*, 31, 15-33.
- Gilmore, G. C., Morrison, S., & Groth, K. (2004). Magnocellular deficit hypothesis in Alzheimer's disease. In A. Cronin-Golomb & P. R. Hof (Eds.), *Interdisciplinary Topics in Gerontology: Vision in Alzheimer's Disease and Related Disorders*, Vol. 34, 173-198, Basel: Karger.
- Gilmore, G. C., Royer, F. L., Gruhn, J. J., & Esson, M. J. (2004). Symbol-digit substitution and individual differences in visual search ability. *Intelligence*, 32, 47-64.
- Amick, M. M., Cronin-Golomb, A., & Gilmore, G. C. (2003). Visual processing of rapidly presented stimuli is normalized in Parkinson's disease when proximal stimulus strength is enhanced. *Vision Research*, 43, 2827-2835.
- Cronin-Golomb, A., & Gilmore, G. C. (2003). The role of vision in cognitive dysfunction and enhancement in Alzheimer's disease. In S. Soraci & K. Murata-Soraci (Eds.), *Visual Information Processing* (pp. 3-34). Westport, CN: Praeger.
- Groth, K., & Gilmore, G. C. (2003). Impact of stimulus integrity on age differences in letter matching. *Experimental Aging Research*, 29, 155-172.
- Gilmore, G. C. (2002). Scoring of contrast sensitivity on Vistech charts. (Letter to the Editor). *Journal of the Neurological Sciences*, 205, 85.
- Gilmore, G. C. (2002). Vision and Perception. In *Encyclopedia of Aging*. D. J. Eckerdt, R. A. Applebaum, K. C. Holden, S. G. Post, K. Rockwood, R. Schulz, R. L. Sprott, and P. Uhlenberg (Eds.), New York: Macmillan Reference USA.
- Koss, E. & Gilmore, G. C. (1998). Environmental interventions and functional ability of Alzheimer's Disease patients. In B. Vellas, J. Fitten, & G. Frisoni (Eds.), *Research and Practice in Alzheimer's Disease*, 185-191. Paris/New York: Serdi/Springer.
- Xue, P., Thomas, C. W., Gilmore, G. C., & Wilson, D. L. (1998). An adaptive reference/test paradigm: Application to pulsed fluoroscopy perception. *Behavior Research Methods, Instruments, & Computers*, 30, 332-348.
- Spinks, R., Curran, T., Thomas, C., & Gilmore, G. (1998). Simulated visual aging slows brain waves. *Journal of Cognitive Neuroscience*, 10, 41-41.

- Stuve, T. A., Friedman, L., Jesberger, J. A., Gilmore, G. C., Strauss, M. E., & Meltzer, H. Y. (1997). The relationship between smooth pursuit performance, motion perception and sustained visual attention in patients with schizophrenia and normal controls. *Psychological Medicine*, 27, 143-152.
- Gilmore, G. C., Thomas, C. W., Klitz, T., Persanyi, M., & Tomsak, R. (1996). Contrast enhancement eliminates letter identification speed deficits in Alzheimer's disease. *Journal of Clinical Geropsychology*, 2, 307-320.
- Gilmore, G. C. (1996). Perception. In J. Birren (Ed.) *Encyclopedia of Gerontology* (pp. 271-279). San Diego, CA: Academic Press.
- Whitehouse, P. J., Patterson, M. B., Strauss, M. E., Geldmacher, D. S., Mack, J. L., Gilmore, G. C. & Koss, E. (1996). Hallucinations. *International Psychogeriatrics/ IPA*, 8 Suppl 3, 387-392.
- Gilmore, G. C. (1995). Stimulus encoding in Alzheimer's disease: A multichannel view. In P. Allen and A. Bashore (Eds.), *Age differences in word and language processing* (pp. 199-219). Elsevier Science B.V.
- Gilmore, G. C., & Whitehouse, P. (1995). Contrast sensitivity in Alzheimer's disease: A one year longitudinal analysis. *Optometry and Vision Science*, 72, 83-91.
- Aufrichtig, R., Xue, P., Thomas, C. W., Gilmore, G. C., & Wilson, D. L. (1994). Perceptual comparison of pulsed and continuous fluoroscopy. *Medical Physics*, 21, 245-256.
- Gilmore, G. C., Wenk, H., Naylor, L., & Koss, E. (1994). Motion perception and Alzheimer's disease. *Journal of Gerontology: Psychological Sciences*, 49, P52-P57. Also digested in *Parkinson/Alzheimer Digest*, (April, 1995), 26-28.
- Thomas, C. W., Gilmore, G. C., & Royer, F. L. (1993). Models of contrast sensitivity in human vision. *IEEE Transactions on Systems, Man, and Cybernetics*, 23, 857-864.
- Aufrichtig, R., Thomas, C. W., Gilmore, G. C., & Wilson, D. L. (1992). Comparison of detectability in pulsed versus continuous fluoroscopy: A simulation study. *Medical Imaging VI: Image Capture, Formatting, and Display* (Ed. Yongmin Kim), Proc. SPIE 1653, 374-378.
- Gilmore, G. C., Wenk, H., Naylor, L., & Stuve, T. (1992). Motion perception and aging. *Psychology and Aging*, 7, 654-660.
- Weiss, K. M., Chapman, H. A., Strauss, M. E., & Gilmore, G. C. (1992). Visual information decoding deficits in schizophrenia. *Psychiatry Research*, 44, 203-216.
- Gilmore, G. C., Andrist, C. W., & Royer, F. L. (1991). Comparison of two methods of contrast sensitivity assessment with young and elderly adults. *Optometry and Vision Science*, 68, 104-109.
- Gilmore, G. C., & Levy, J. (1991). Spatial contrast sensitivity in Alzheimer's Disease: A comparison of two methods. *Optometry and Vision Science*, 68, 790-794.

- Mendez, M. F., Turner, J., Gilmore, G. C., Remler, B., Tomsak, R. L. (1990). Balint's syndrome in Alzheimer's disease: Visuospatial functions. *International Journal of Neuroscience*, 54, 339-346.
- Muza, S. R., Silverman, M. T., Gilmore, G. C., Hellerstein, H. K., & Kelsen, S. G. (1990). Comparison of scales used to quantitate the sense of effort to breathe in patients with chronic obstructive pulmonary disease. *American Review of Respiratory Disease*, 41, 909-913.
- Gilmore, G.C., Whitehouse, P., & Wykle, M. (Eds.) (1989). *Memory, aging, and dementia: Theory, assessment, and treatment*. Springer: New York.
- Altose, M. D., Zechman, F. W., Dimarco, A. F., Frazier, F. T., Gilmore, G. C., Grassino, A. E. Killian, K. J., Milicemili, J., Santaambrogio, G., Shannon, R., Strohl, K. P., & Stuart, D. G. (1986). Loaded breathing-load compensation and respiratory sensation. *Federation Proceedings*, 45, 114-122.
- Gilmore, G. C., Allan, T.M., & Royer, F. L. (1986). Iconic memory and aging. *Journal of Gerontology*, 41, 183-190.
- Gridley, M.C., Mack, J., & Gilmore, G.C. (1986). Age effects on a nonverbal auditory sustained attention task. *Perceptual and Motor skills*, 62, 911-917.
- Gilmore, G. C. (1985). Letters are visual stimuli: A comment on the use of confusion matrices. *Perception & Psychophysics*, 37, 389-390.
- Gilmore, G. C., Tobias, T. R., & Royer, F. L. (1985). Aging and similarity grouping in visual search. *Journal of Gerontology*, 40, 586-592.
- Royer, F. L., & Gilmore, G. C. (1985). Age and functions of the transient component of On and Off responses. *Quarterly Journal of Experimental Psychology*, 37A, 147-170.
- Royer, F. L., & Gilmore, G. C. (1985). Spatio-temporal factors and developmental changes in visual processes. *Bulletin of the Psychonomic Society*, 23, 404-406.
- Royer, F. L., & Gilmore, G. C. (1984). On effects of intensification on temporal integration. *Vision Research*, 24, 1429-1431.
- Royer, F. L., Gilmore, G. C., & Gruhn, J. J. (1984). Stimulus factors that produce age differences in block design performance. *Journal of Clinical Psychology*, 40, 1474-1485.
- Gilmore, G. C., Royer, F. L., & Gruhn, J. J. (1983). Age differences in symbol-digit substitution task performance. *Journal of Clinical Psychology*, 39, 114-124.
- Royer, F. L., Rzeszotarski, M. S., & Gilmore, G. C. (1983). Application of two-dimensional Fourier transform to problems of visual perception. *Behavior Research Methods and Instrumentation*, 15, 319-326.
- Rzeszotarski, M. S., Royer, F. L. & Gilmore, G. C. (1983). Introduction to two-dimensional Fourier analysis. *Behavior Research Methods and Instrumentation*, 15, 308-318.
- Jung, K. I., Vanek, E. P., & Gilmore, G. C. (1982). A comparison of the perceptual skills of physicians and medical illustrators. *The Journal of Biocommunication*, 9, 4-8.

- Royer, F. L., Gilmore, G. C., & Gruhn, J. J. (1981). Normative data for symbol-digit substitution task. *Journal of Clinical Psychology*, 37, 608-614.
- Gilmore, G. C. (1980). Letter interactions in brief visual displays. *Quarterly Journal of Experimental Psychology*, 32, 649-668.
- Place, E. S. & Gilmore, G. C. (1980). Perceptual organization in schizophrenia. *Journal of Abnormal Psychology*, 89, 409-418.
- Gilmore, G. C. & Hersh, H. (1979). Multidimensional letter similarity: A reply to Mewhort and Dow. *Perception & Psychophysics*, 26, 501-502.
- Gilmore, G. C., Hersh, H., Caramazza, A., & Griffin, J. (1979). Multidimensional letter similarity derived from recognition errors. *Perception & Psychophysics*, 25, 425-431.
- Gilmore, G. C. & Egeth, H. (1976). When are nonwords easy to see? *Memory and Cognition*, 4, 519-524.
- Gilmore, G. C. (1975). The interaction among letters in a visual display. *Catalog of Selected Documents in Psychology*, 5, Ms. 1085.
- Egeth, H., Atkinson, J., Gilmore, G. C., & Marcus, N. (1973). Factors affecting processing mode in visual search. *Perception & Psychophysics*, 13, 394-402.

Invited Presentations

- Gilmore, G. C. Vision in Alzheimer's disease. Center for the Study of Neurosciences, University of New England, Biddeford, April 4, 2011.
- Gilmore, G. C. & Lerner, A. Therapeutic effects of cataract removal in Alzheimer's disease patients. Grand Rounds in Ophthalmology, University Hospitals Case Medical Center, Cleveland, March 23, 2011.
- Gilmore, G. C. Successful development is about relationships. John A. Hartford Leadership Academy, Tampa, January 12, 2011.
- Gilmore, G. C. Overview II: Vision. National Institute on Aging, Division of Neuroscience Workshop on Sensory and Motor Dysfunction in Aging and Alzheimer's Disease. Bethesda, MD, August 9, 2010.
- Gilmore, G. C. Peripheral visual dysfunctions in Alzheimer's Disease. National Institute on Aging, Division of Neuroscience Workshop on Sensory and Motor Dysfunction in Aging and Alzheimer's Disease. Bethesda, MD, August 9, 2010.
- Gilmore, G. C. Implementation of a randomized control trial: A case study. Mandel School of Applied Social Sciences, CWRU, November 4, 2010.
- Gilmore, G. C. Workshop: Seeing the world through the eyes of an Alzheimer's patient, Mandel School of Applied Social Sciences, CWRU, November 30, 2007.
- Gilmore, G. C. Viewing the world through the eyes of Alzheimer's disease patients, Aging Interest Group, Mandel School of Applied Social Sciences, CWRU, March 27, 2003.
- Gilmore, G. C. Perceptual challenges in Alzheimer's Disease, Topics in Geriatric Medicine Series, V. A. Medical Center, Cleveland, OH, October 5, 2001.

- Gilmore, G. C. Seeing through the eyes of a person with Alzheimer's disease. Akron Tri-County Alzheimer's Association, Northeastern Ohio Universities College of Medicine, Rootstown, OH, April 26, 2001.
- Gilmore, G. C. Social sciences in the 21st century. Michigan State University, East Lansing, MI, February 26, 2001
- Gilmore, G. C. Perceptual challenges in Alzheimer's Disease. Alzheimer Center, University Hospitals, Cleveland, OH, January 3, 2001.
- Gilmore, G. C. Visual Perception in Alzheimer's Disease. Grand Rounds in Neurology, University Hospitals, Cleveland, OH, March 20, 1998.
- Gilmore, G. C. Visual Deficits and higher order processing in Alzheimer's disease. Cleveland State University, Cleveland, OH, October 17, 1996.
- Gilmore, G. C., & Lustig. C. A. Picture recognition in Alzheimer's disease: Impact of contrast sensitivity deficit, Conference on The Spectrum of Research on Aging and the Aged, Case Western Reserve University, Cleveland, OH, November 2, 1995.
- Gilmore, G. C. Elementary visual functions in Alzheimer's disease, Alzheimer's Center of University Hospitals and Case Western Reserve University, Cleveland, OH, October 6, 1993.
- Gilmore, G. C. Enhancing visual performance of Alzheimer's patients, Topics in Geriatric Medicine Series, V. A. Medical Center, Cleveland, OH, January 24, 1992.
- Gilmore, G. C. Contrast sensitivity of Alzheimer disease patients, AERO Annual Conference, Independence, OH, October 17, 1991.
- Gilmore, G. C. Validation of the Performance Assurance Computerized Test (PACT), Human Performance Testing Conference and Workshop, EXXON Biomedical Sciences, East Millstone, NJ, October 8, 1991.
- Gilmore, G. C. Factor Structure of Pact, ARCO Corporate Medical, Los Angeles, CA, August 13, 1991.
- Gilmore, G. C. Sensory loss: How patients perceive their environment, 5th Annual Alzheimer's Summer Symposium, Cincinnati, OH, July 19, 1991.
- Gilmore, G. C. Visual perception and Alzheimer's disease. Alzheimer's & Related Disorders Support Group, Sandusky, OH, November 14, 1989.
- Gilmore, G. C. Visual changes associated with aging and Alzheimer's disease and application for clinical practice. Alzheimer's Association, Canton, OH, September 22, 1989.
- Gilmore, G. C. Individual differences in perception: A multichannel model of vision. Grand Rounds, Department of Psychiatry, Metropolitan General Hospital, Cleveland, OH, January 14, 1988.
- Gilmore, G. C. Visual perception and aging. Geriatric Education Center, V.A. Medical Center, Cleveland, OH, January 8, 1988.
- Gilmore, G. C. Global form processing by the elderly. V.A. Medical Center, Brecksville, OH, November 6, 1985.

- Gilmore, G. C. Global form processing in the elderly. Syracuse University, Syracuse, NY, March 26, 1985.
- Gilmore, G. C. Perception of stimulus structure by the elderly: Implications for intelligence testing. Gerontological Research Group, Case Western Reserve University, Cleveland, OH, March 17, 1981.
- Gilmore, G. C. Symbol-digit coding in psychotics and non-psychotics. Veterans Administration Medical Center, Brecksville, OH, June 11, 1980.
- Gilmore, G. C. Global coding in early visual processing. Digital Equipment Corporation, Maynard, Massachusetts, March 11, 1980.

Abstracts

- Gilmore, G. C. & Patterson, B. A. (2004). Mnemonic benefit of perceptual interference in young and older adults. *Abstracts of the Psychonomic Society*, 9, 84.
- Cronin-Golomb, A., Gilmore, G.C., Morrison, S., Groth, K. E., Nearing, S. A., Patterson, B. A., & Laudate, T. M. (2004). Enhancement of stimulus contrast improves the information processing of Alzheimer's disease patients. *NeuroBiology of Aging*, 25, S2, 120.
- Gilmore, G.C., Morrison, S., & Cronin-Golomb, A. (2004). Contrast sensitivity decline in Alzheimer's disease: VCTS, FACT, or Artifact. *NeuroBiology of Aging*, 25, S2, 130.
- Gilmore, G.C., Morrison, S., Cronin-Golomb, A., Amick, A. (2004). Visual motion deficits in Alzheimer's disease are not due to differences in cognitive load. *NeuroBiology of Aging*, 25, S2, 119.
- Gilmore, G. C. & Patterson, B. A. (2003). Mnemonic benefit of perceptual interference in young and older adults. *Abstracts of the Psychonomic Society*, 8, 23.
- Cronin-Golomb, A., Gilmore, G.C., Morrison, S. (2002). Sensory-based encoding deficit drives differences in cognitive performance in Alzheimer's disease and normal aging. *NeuroBiology of Aging*, 23, 1S, S261.
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- Gilmore, G.C., Morrison, S.R., Behi, N.L., Koss, E. (2000). Information processing speed is the same for healthy elderly adults and Alzheimer's disease patients when proximal stimulus strength is equated. *Abstracts, Cognitive Aging Conference 2000*, 32.
- Gilmore, G. C., Morrison, S. R., Behi, N., & Manjeshwar, R. (2000). Age, contrast, and spatial frequency effects on speed estimation. *Investigative Ophthalmology and Visual Science (Supplement)*, 41, 432.

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- Rosen, A. C., Gilmore, G. C., & Thomas, C. W. (1996). Aging, spatial frequency content, and perceptually organized visual search. *Journal of the International Neuropsychological Society*, 2, 20.
- Gilmore, G. C., Koss, E., Thomas, C. W., & Townsend, L. (1994). Impact of Alzheimer-type contrast filter on picture naming and memory in healthy adults. *Optics & Photonics News (Supplement)*, 5(8), 110.
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- Gilmore, G. C., Koss, E., Wenk, H. E., & Whitehouse, P. J. (1993). Visual dysfunction in Alzheimer's-disease. *Neurology (Supplement 2)*, 43(4), A173.
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- Xue, P., Aufrechtig, R., Thomas, C. W., Gilmore, G. C., & Wilson, D. L. (1993). The perception of moving objects in reduced acquisition rate pulsed fluoroscopy. *Proceedings of the 5th West Image Perception Conference*, 12.
- Aufrechtig, R., Thomas, C. W., Gilmore, G. C., & Wilson, D. L. (1992). Extension of the ideal observer model to pulsed fluoroscopic imaging. *Radiology (Supplement)*, 185P, 305.
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Conference Papers

- Gilmore, G. C. & Patterson, B. A. Mnemonic benefit of perceptual interference in young and older adults. Paper presented at the annual meeting of the Psychonomic Society, Vancouver, BC, Canada, November 2003.
- Gilmore, G. C. Symbol-Digit Substitution Test: Componential analysis and age effects. Paper presented at the annual meeting of the International Society on Intelligence Research, Nashville, TN, November, 2002.
- Gilmore, G. C., Morrison, S. R., Behi, N., & Manjeshwar, R. Information processing speed is the same for healthy elderly adults and Alzheimer's disease patients when proximal stimulus strength is equated. Paper presented at the Cognition and Aging Conference, Atlanta, GA, April, 2000.
- Koss, E. & Gilmore, G. C. Environmental intervention to improve performance and slow functional decline in persons with dementia. Paper presented at the annual meeting of the Gerontological Society of America, San Francisco, CA, November, 1999.
- Gilmore, G. C. Impact of spatial contrast sensitivity deficits in Alzheimer's disease. Paper presented at the annual meeting of the Eastern Psychological Association, Providence, RI, April, 1999.
- Spinks, R.A., Curran, T., Thomas, C.W., Gilmore, G.C. Simulated old eyes = Slow brains. Paper presented at the Cognition and Aging Conference, Atlanta, GA, April, 1998.
- Gilmore, G. C., Turner, J. B., Thomas, C. W., Koss, E., Ripich, D., Townsend, L. D., Greene, R., Stuve, T., Morrison, S. R., & Lustig, C. A. Picture recognition in Alzheimer's disease: Impact of contrast sensitivity deficit. Paper presented at the Cognitive Aging Conference, Atlanta, Georgia, April, 1996.
- Rosen, A. C., Gilmore, G. C., & Thomas, C. W. Aging, spatial frequency content, and perceptually organized visual search. Paper presented at the annual meeting of the International Neuropsychological Society, Los Angeles, February, 1996.
- Gilmore, G. C., Seoane, M., Thomas, C. W., & Xue, P. Visual masking and aging: A sensory deficit. Paper presented at the annual meeting of the Psychonomic Society, Los Angeles, November, 1995.
- Kim, L. Y., Detterman, D. K., Gilmore, G. C. Contrast sensitivity in adults with Down syndrome. Paper presented at the Gatlinburg Conference on Research on Mental Retardation and Developmental Disabilities, Gatlinburg, March, 1994.
- Kim, L. Y., Detterman, D. K., Gilmore, G. C. Aging effects on contrast sensitivity in adults with Down syndrome. Paper presented at the Human Development Conference, Pittsburgh, April, 1994.
- Koss, E., & Gilmore, G. C. Sensory-perceptual deficits in Alzheimer's disease. Paper presented at the annual meeting of the International Neuropsychological Society, Galveston, March, 1993.
- Rosen, A. C., Gilmore, G. C., & Thomas, C. W. Spatial frequency content and the popout effect in visual search. Paper presented at the annual meeting of the Midwestern Psychological Association. Chicago, April, 1993.

- Xue, P., Aufrechtig, R., Thomas, C. W., Gilmore, G. C., & Wilson, D. L. The perception of moving objects in reduced acquisition rate pulsed fluoroscopy. Paper presented at the 5th Far West Image Perception Conference, Newport, RI, 1993.
- Aufrechtig, R., Thomas, C. W., Gilmore, G. C., & Wilson, D. L. Extension of the ideal observer model to pulsed fluoroscopic imaging. Paper presented at the annual RSNO meeting. Chicago, 1992.
- Engelhardt, N., & Gilmore, G. C. Response competition and aging. Paper presented at the annual meeting of the Gerontological Society of America, Boston, November, 1990.
- Rosen, A. C., Gilmore, G. C., & Royer, F. L. Spatial Frequency interactions in young and elderly adults. Paper presented at the annual meeting of the Gerontological Society of America, Boston, April, 1990.
- Gilmore, G.C., Thomas, C., & Royer, F.L. Global precedence: The influence of spatial frequency content. Paper presented at the annual meeting of the Psychonomic Society, Chicago, November, 1988.
- Gilmore, G.C. A multichannel model of visual perception. Paper presented at the Aging and Attention Conference, National Institutes of Health, Bethesda, Maryland, October, 1987.
- Gilmore, G.C. Parallel processing in visual search. Paper presented at the Cognitive Aging Conference, Atlanta, Georgia, April, 1987.
- Riley, K. P., & Gilmore, G. C. Learning, memory, and strategies in senile dementia. Paper presented at the annual meeting of the Gerontological Society of America, Chicago, 1986.
- Tucker, E., Gilmore, G. C., & Royer, F.L. Encoding deficit in the elderly: It ain't necessarily so. Paper presented at the annual meeting of the Eastern Psychological Association, Boston, 1985.
- Gilmore, G. C. An overview: Application of psychophysical methods and theory. Paper presented at the Fall meeting of the American Physiological Association, Lexington, 1984.
- Gilmore, G. C., & Royer, F. L. Global form processing by the elderly: A transient channel deficit? Paper presented at the annual meeting of the American Psychological Association, Toronto, 1984.
- Royer, F. L., and Gilmore, G. C. Temporal and spatial factors in the aging visual system. Paper presented at the annual meeting of the American Psychological Association, Toronto, 1984.
- Allan, T. M., Gilmore, G. C., and Royer, F. L. Luminance and iconic memory in the elderly. Paper presented at the annual meeting of the Eastern Psychological Association, Baltimore, 1984.
- Gilmore, G. C., Andrist, C. G., & Royer, F. L. Adult aging and encoding speed. Paper presented at the annual meeting of the Eastern Psychological Association, Baltimore, 1984.

- Royer, F. L., & Gilmore, G. C. Aging and exponential decay model of 2-flash fusion threshold. Paper presented at the annual meeting of the Eastern Psychological Association, Baltimore, 1984.
- Gilmore, G. C., & Royer, F. L. Software approaches to the analysis of global form perception. Presented at the annual meeting of the American Psychological Association, Anaheim, 1983.
- Gilmore, G. C., Royer, F. L., & Tobias, T. R. Global form analysis by the elderly. Presented at the annual meeting of the American Psychological Association, Anaheim, 1983.
- Gilmore, G. C., Tobias, T. R., & Royer, F. L. Aging and visual search performance. Presented at the annual meeting of the Eastern Psychological Association, Philadelphia, 1983.
- Mugrage, T., Gilmore, G. C. & Royer, F. L. Iconic memory and aging. Presented at the annual meeting of the Eastern Psychological Association, Philadelphia, 1983.
- Tobias, T. R., Gilmore, G. C., & Royer, F. L. Global form processing in the elderly. Presented at the annual meeting of the Eastern Psychological Association, Philadelphia, 1983.
- Gilmore, G. C., Royer, F. L., Gruhn, J. J., Hill, G., & Esson, M. Individual differences in visual search ability. Presented at the annual meeting of the Eastern Psychological Association, Baltimore, 1982.
- Royer, F. L., & Gilmore, G. C. Metacontrast masking in aging. Presented at the annual meeting of the Eastern Psychological Association, Baltimore, 1982.
- Royer, F. L., Rzeszotarski, M. S., & Gilmore, G. C. Application of two-dimensional Fourier transform to problems of visual perception. Presented at the annual National Conference on the Use of On-Line Computers in Psychology, Minneapolis, 1982.
- Rzeszotarski, M.S., Royer, F. L., and Gilmore, G. C. Introduction to two-dimensional Fourier analysis. Presented at the annual National Conference on the Use of On-Line Computers in Psychology, Minneapolis, 1982.
- Gilmore, G. C., Royer, F. L., & Gruhn, J. J. Age differences in symbol-digit substitution performance. Presented at the annual meeting of the Gerontological Society of America, Toronto, 1981.
- Miller, N., & Gilmore, G. C. Co-chairs of paper session: Age differences in test performance. Presented at the annual meeting of the Gerontological Society of America, Toronto, 1981.
- Royer, F. L., Gilmore, G. C., & Gruhn, J. J. Stimulus parameters producing the age differences in block design performance. Presented at the annual meeting of the Gerontological Society of America, Toronto, 1981.
- Gilmore, G. C. & Schwartz, E. An additive interaction among letters. Presented at the annual meeting of the American Psychological Association, San Francisco, 1977.

- Gilmore, G. C. & Egeth, H. A test of an interactive channels model of visual detection. Presented at the annual meeting of the Eastern Psychological Association, New York, 1975.
- Gilmore, G. C. & Egeth, H. Visual search through words and nonwords. Presented at the annual meeting of the Eastern Psychological Association, Philadelphia, 1974.
- Egeth, H. & Gilmore, G. C. The effects of redundancy on visual comparisons. Presented at the annual meeting of the Psychonomic Society, St. Louis, 1973.

Conference Posters

- Lerner, A. J., Debanne, S. M., Lass, J. M., Belkin, J. K., Steinemann, T. L., Riedel, T. M., Gilmore, G. C. (July, 2014). Visual and cognitive improvement following cataract surgery in subjects with dementia. Poster presented at the Alzheimer's Association International Conference, Copenhagen, Denmark.
- Lass, J. M., Belkin, J. K., Steinemann, T. L., Riedel, T. M., Lerner, A. J., Debanne, S. M., Gilmore, G. C. (May, 2014). Visual and cognitive improvement following cataract surgery in dementia patients. Poster presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Orlando, FL.
- Riedel, T. M., Debanne, S. M., Lass, J. M., Lerner, A. J., Belkin, J. K., Steinemann, T. L., Gilmore, G. C. (April, 2014). Effects of Cataract Surgery on Vision and Cognition in Dementia Patients Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Colon, M., Seichipene, D. R., Nearingard, S., Laudate, T., Gilmore, G. C., Cronin-Golomb, A. (April, 2010). The effects of luminance and contrast on object location in normal aging and Alzheimer's Disease. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Gilmore, G. C., Cronin-Golomb, A., Lee, G., Riedel, T., Groth, K. (April, 2010). Semantic priming is non-monotonically related to stimulus quality. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Laudate, T. M., Nearingard, S., Joshi, P., Gilmore, G. C., Cronin-Golomb, A. (April, 2010). Effects of stimulus characteristics of a computerized bingo game on performance in aging, Alzheimer's Disease, and Parkinson's Disease. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Reese, B., Toner, T., Riedel, T., Gilmore, G. C., Cronin-Golomb, A. (April, 2010). Digit cancellation task Is affected by both sensory and cognitive deficits. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Seichipene, D. R., Reynolds, S., Nearingard, S., Gilmore, G. C., Cronin-Golomb, A. (April, 2010). Visual enhancements improve performance on activities of daily living in Parkinson's Disease and healthy aging. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Dunne, T., Sullivan, K., Laudate, T. M., Reese, B., Seichepine, D., Nearingard, S., Gilmore, G. C., & Cronin-Golomb, A., (April & June, 2008). Recreating the real

- world: Lessons from a controlled naturalistic study of visual cognition. Poster presented at the Cognition and Aging Conference, Atlanta, GA. and the Massachusetts Neuropsychological Society, Boston, MA.
- Gilmore, G. C., Groth, K. E., Cronin-Golomb, A., Riedel, T., Syh, J., Ekka-Duffy, S. (April, 2008). Semantic priming is non-monotonically related to stimulus quality. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Seichepine, D. R., McCallum, M., Nearing, S., Gilmore, G. C. and Cronin-Golomb, A. (April, 2008). Finding the pill on the floor: How luminance and contrast affect elderly individuals' object detection abilities across computerized and naturalistic assessments. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Cronin-Golomb, A., Gilmore, G. C., Nearing, S., Morrison, S., & Laudate, T. (April, 2006). Enhanced stimulus contrast improves visual cognition in aging and Alzheimer's disease. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Morrison, S. R., Gilmore, G. C., Cronin-Golomb, A., Nearing, S., & Laudate, T. (April, 2006). Deficits in motion perception reported in aging and Alzheimer's disease are influenced by stimulus strength and gender. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Gilmore, G. C. & Patterson, B. A. (November, 2004). Mnemonic benefit of perceptual interference in young and older adults. Poster presented at the annual meeting of the Psychonomic Society, Minneapolis.
- Cronin-Golomb, A., Gilmore, G. C., Morrison, S. R., Groth, K. E., Nearing, S. A., Patterson, B. A. & Laudate, T. M. (July, 2004). Enhancement of contrast improves the visual information processing of Alzheimer's disease patients. Poster presented at the International Conference on Alzheimer's Disease and Related Disorder, Philadelphia, PA.
- Gilmore, G. C., Morrison, S. R., & Cronin-Golomb, A. (July, 2004). Contrast sensitivity decline in Alzheimer's disease: VCTS, FACT, or artifact? Poster presented at the International Conference on Alzheimer's Disease and Related Disorder, Philadelphia, PA.
- Gilmore, G. C., Morrison, S. R., Cronin-Golomb, A., Amick, M. (July, 2004). Visual motion deficits in Alzheimer's disease are not due to cognitive overload. Poster presented at the International Conference on Alzheimer's Disease and Related Disorder, Philadelphia, PA.
- Arlie, C.R., & Gilmore, G. (April, 2004). Contrast sensitivity and object identification. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Gilmore, G. C., Patterson, B. A., & Galperin, H. O. (April, 2004). Age differences in contrast sensitivity: A confound on performance in cognitive tasks. Research ShowCASE, Case Western Reserve University, Cleveland, OH.
- Gilmore, G.C., & Patterson, B.A. (April, 2004). Incidental recall and proximal signal strength in young and older adults. Poster presented at the Cognition and Aging Conference, Atlanta, GA.

- Morrison, S. R., Gilmore, G. C., Cronin-Golomb, A., & Galani, A. J. (April, 2003). Sensory-based deficit drives differences in letter and word reading in Alzheimer's disease and normal aging. Research ShowCASE, Case Western Reserve University, Cleveland, OH.
- Patterson, B. A. & Gilmore, G. C. (April, 2003). Weak stimuli are easier to recall by young but not older adults. Research ShowCASE, Case Western Reserve University, Cleveland, OH.
- Arlie, C. R., Gilmore, G. C., & Natarajan, R. (November, 2002). Performance of Older Adults on the Benton Face Recognition Test: Impact of Image Size. Poster presented at the annual meeting of the Gerontological Society of America, Boston, MA.
- Cronin-Golomb, A., Gilmore, G.C., & Morrison, S. (July, 2002). Sensory-based encoding deficit drives differences in cognitive performance in Alzheimer's disease and normal aging. International Conference on Alzheimer's Disease and Related Disorders, Stockholm, Sweden.
- Braunschweig, H. & Gilmore, G. C. (April, 2002). Contrast sensitivity accounts for age-related deficit in processing speed. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Morrison, S. R., Gilmore, G. C., Groth, K. E., & Behi, N. L. (April, 2002). Normative contrast sensitivity data: A comparison of two instruments. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Gilmore, G. C. & Patterson, B. A. (November, 2001). Mnemonic benefit of perceptual interference is due to encoding effort. Poster presented at the annual meeting of the Psychonomic Society, Orlando.
- Gilmore, G. C., Morrison, S. R., Townsend, L. D., & Thomas, C. W. (November, 2000). Coherent motion discrimination: Impact of contrast, age, and Alzheimer's disease. Poster presented at the annual meeting of the Psychonomic Society, New Orleans.
- Gilmore, G. C., Morrison, S. R., Behi, N., & Manjeshwar, R. (May, 2000). Age, contrast, and spatial frequency effects on speed estimation. Poster presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Ft. Lauderdale.
- Arlie, C. & Gilmore, G. C. (April, 2000). Performance on the Benton face recognition task using an Alzheimer-type contrast filter. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Curran, T., Spinks, R. A., Thomas, C., & Gilmore, G. C. (June, 1999). Age-related visual decline affects memory and neural processing speed. Poster presented at the American Federation for Research Grantee Conference, Santa Barbara, CA.
- Spinks, R. A., Curran, T., Thomas, C., & Gilmore, G. C. (April, 1999). Effects of simulated visual aging on recognition memory and ERP latency in young adults. Poster presented at the 5th annual meeting of the Cognitive Neuroscience Society, Washington, D.C.

- Gilmore, G. C., Morrison, S. R., Townsend, L. D., Bendoly, E., & Michitsch, A. E. (April, 1998). Visual persistence is not longer in elderly adults. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Gilmore, G. C., Townsend, L. D., & Morrison, S. R. (April, 1998). Oral reading speed in Alzheimer's disease. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Spinks, R.A., Gilmore, G.C., Thomas, C.W., Hinman, J. (April, 1998) What's the difference? Two sensory age simulations compared. Poster presented at the Cognition and Aging Conference, Atlanta, GA.
- Spinks, R.A., Curran, T., Thomas, C.W., Gilmore, G. C. (April, 1998). Simulated visual aging slows brain waves. Poster presented at the Cognitive Neuroscience Society Meetings, San Francisco, CA.
- Spinks, R.A., Curran, T., Thomas, C.W., Gilmore, G.C. (March, 1998) Does failing vision cause slower brains? Poster presented at the Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Charleston, SC
- Spinks, R. A., Gilmore, G. C., & Thomas, C. W. Age simulation of a sensory deficit does impair cognitive test performance. Poster presented at the Cognitive Aging Conference, Atlanta, 1996.
- Gilmore, G. C., Turner, J. B., Thomas, C. W., Koss, E., Townsend, L., Greene, R., Morrison, S., & Lustig, C. A. Impact of Alzheimer-type Contrast Filter on Picture Recognition and Memory: Simulation and Remediation of Alzheimer Deficits. Poster presented at the conference on The Spectrum of Research on Aging and the Aged, Case Western Reserve University, Cleveland, 1995.
- Lustig, C. A., Gilmore, G. C., Koss, E., Thomas, C. W., Ripich, D., Townsend, L. & Stuve, T. Boston Naming Test performance is affected by simulated Alzheimer-type deficit. Poster presented at the conference on The Spectrum of Research on Aging and the Aged, Case Western Reserve University, Cleveland, 1995.
- Seoane, M., Gilmore, G. C., & Thomas, C. W. Aging and it effects on visual persistence. Poster presented at the conference on The Spectrum of Research on Aging and the Aged, Case Western Reserve University, Cleveland, 1995.
- Spinks, R. A., Gilmore, G. C., Thomas, C. W. Does age related poor vision dictate lower IQ? A test of the sensory deficit theory of cognitive aging. Poster presented at the conference on The Spectrum of Research on Aging and the Aged, Case Western Reserve University, Cleveland, 1995.
- Thomas, C. W., Gilmore, G. C., & Koss, E. What can normal elderly adults and Alzheimer's disease patients see? Poster presented at the conference on The Spectrum of Research on Aging and the Aged, Case Western Reserve University, Cleveland, 1995.
- Townsend, L., Gilmore, G. C., Lustig, C. A., & Morrison, S. Oral reading speed in Alzheimer's disease. Poster presented at the conference on The Spectrum of Research on Aging and the Aged, Case Western Reserve University, Cleveland, 1995.

- Gilmore, G. C., Koss, E., Thomas, C. W., & Townsend, L. Impact of Alzheimer-type contrast filter on picture naming and memory in healthy adults. Poster presented at the annual meeting of the Optical Society of America, Dallas, 1994.
- Stuve, T., Jesberger, J., Friedman, L. Gilmore, G. C., Strauss, M., & Meltzer, H. Attention and motion perception. Poster presented at the Society of Biological Psychiatry 49th annual convention, Philadelphia, 1994.
- Gilmore, G. C., Groth, K. E., & Thomas, C. W. Contrast enhancement increases word reading speed in Alzheimer's disease. Poster presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota, 1993.
- Gilmore, G. C., Koss, E., Wenk, H. E., & Whitehouse, P. J. Visual dysfunction in Alzheimer's disease. Poster presented at the annual meeting of the American Academy of Neurology, New York, 1993.
- Groth, K., Gilmore, G. C., & Thomas, C. W. Contrast and word reading speed: Effects of aging and Alzheimer's disease. Poster presented at the annual meeting of the Midwestern Psychological Association, Chicago, 1993.
- Rosen, A. C., Gilmore, G. C., & Patterson, M. B. Visual information processing in Alzheimer's disease. Poster presented at the annual meeting of the Midwestern Psychological Association. Chicago, 1993.
- Stuve, T., Gilmore, G. C., & Thomas, C. W. Bistable motion and visual persistence in the elderly. Poster presented at the annual meeting of the Midwestern Psychological Association, Chicago, 1993.
- Aufrichtig, R., Thomas, C. W., Gilmore, G. C., & Wilson, D. L. Comparison of detectability in pulsed versus continuous fluoroscopy: A simulation study. Poster presented at the annual meeting of SPIE, Newport Beach, CA, 1992.
- Gilmore, G. C., Thomas, C. W., Klitz, T., Persanyi, M., & Tomsak, R. Contrast enhancement eliminates letter identification speed deficits in Alzheimer's disease. Poster presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota, 1992.

Doctoral Dissertation Supervision

- Carla Arlien (2004). The relationship between contrast sensitivity and object identification in older adults: Development of a screening tool.
- Karen Groth (1998). Impact of stimulus strength on the memory search performance of young and older adults.
- Mary Persanyi (1995). Individual differences in spatial frequency-dependent visible persistence: The role of temporal summation.
- Allyson Rosen (1994). Perceptual organization, aging, and the multichannel model.
- Mario F. Mendez (1991). The allocation of spatial attention in the visual field in young adults, normal elderly, and demented patients: The scanning focus model.
- Judith A. B. Turner (1990). Visual perception in normal aging and Alzheimer's disease: Influences on picture naming and recognition.
- Bettina J. Katz (1989). Visual search performance in young and elderly adults.

- Michael J. Esson (1988). Schizophrenic visual perception: Spatial orientation disturbance.
- G. Grant Holtzberg (1988). The relationships between specific visual information processing deficits, global perceptual dysfunction, and disordered thought in schizophrenia.
- Terry R. Tobias (1987). Global form processing in schizophrenia: Can the schizophrenic see the forest before the trees?
- Theodore K. Ishida (1984). Visual sensitivity and response bias in the elderly: A signal detection theory paradigm.
- Sheree L. Toth (1984). Information processing in dementia.
- Kathryn Perez Riley (1984). Verbal learning and memory performance in senile dementia.
- Karen Constance Haerberle (1983). A componential analysis of the block design test.
- William W. McMillan (1982). The matching law and models of choice reaction time.
- Francois Boller (1982). Visuospatial impairment in Parkinson's disease: role of perceptual and motor factors and of disease stage.
- Derek Alan Stern (1982). The effect of a Ganzfeld and an experimentally induced demand upon free association.
- David Charles Stroiney (1981). An investigation of the relative effectiveness of three wage and salary survey methodologies.
- Daniel Raymond Lambert (1981). The impact of information load on encoding and memory search: differential effects according to developmental stage mental ability.
- Andrew Goldrich (1981). The congruent-incongruent dimension of perceptual personality style and performance on information processing tasks.
- Erna J. Schwartz (1979). Contextual effects in perception: Schizophrenics vs. non-schizophrenics.
- Mark Gridley (1977). Nonverbal auditory vigilance and age.

Masters Thesis Supervision

- Heidi Braunschweig (2002) Can we reverse the aging process? Reaction time in young and older adults.
- Beth A. Patterson (2002) Mnemonic benefit of perceptual interference is due to encoding effort.
- Carla Arlien (2001) Identification of facial expressions of emotion in younger adults using an Alzheimer's Disease contrast sensitivity deficit simulation.
- Cindy Lustig (1996) Effects of stimulus luminance on span of apprehension in young and elderly adults.
- Sarah Morrison (1996) When do we see the forest or the tree? An exploration of global precedence.
- Ruth A. Spinks (1996) The effect of an age-related spatial contrast simulation on cognitive test performance.
- Traci Stuve (1994). The effect of spatial frequency content on motion detection thresholds.
- Lisa Townsend (1992). The effects of spatial frequency and contrast manipulations on letter identification.
- Zenovia Fakkas (1992). Effects of contrast and spacing manipulations on visual crowding and response competition.
- Allyson Rosen (1990). Spatial frequency interactions in young and elderly adults.

- Mario F. Mendez (1989). The allocation of spatial attention in the visual field: scanning or spreading?
- G. Grant Holtzberg (1986). Visual information processing and schizophrenia as measured by the symbol digit substitution test.
- Bettina J. Katz (1986). Spatial facilitation in young and elderly adults.
- Thomas Paul Swales (1983). The perception of stimulus structure.
- Terry R. Tobias (1983). Global form analysis in the elderly.
- Michael J. Esson (1983). The performance of schizotaxic and normal college students on symbol digit substitution, line estimation, and visual search.
- Rebecca Zuti (1982). The perception of respiration in asthmatics.
- Kathryn Perez Riley (1982). The effect of antihypertensive medications on mood and cognitive performance in older male hypertensives.
- Karen Constance Haeberle (1981). Multidimensional scaling of block design patterns.
- Daniel Raymond Lambert (1980). The effect of perceptual organization on the early stages of visual information processing.
- William W. McMillan (1979). Speed vs. accuracy emphasis in a non-linguistic serial motor task.
- Bonita B. Vargo (1979). Feature specific inhibition: re-examined.
- Erna J. Schwartz (1978). The influence of visual feature similarity on processing capacity.

Previous Major University Service Activities (*chronological order*)

- Co-Chair, Search Committee for Dean of Case School of Engineering, 2011
- University Research Committee, 2007-2009
- University Budget Committee, 2006-2009
- Charity Choice Campaign, Co-Chair, 2003-2008
- Faculty Athletic Advisory Board, 2004-2008
- President's Advisory Committee on Promotion and Tenure, 2004-2008
- University Arts & Retail District Developer Selection Committee, 2006-2008
- Branding Task Group, 2006-2007
- Design Committee for Mandel Center Building, 2005-2007
- University Research Committee, 2006-2007
- Alzheimer Disease Center of University Hospitals:*
Advisory Board, and Consultant, 1987-2006
- Western Reserve Historical Society*, Planning Committee for Carl and Louis Stokes Exhibit, 2006
- Capital Planning Committee, 2003-2006
- Search Committee for Dean of Weatherhead School of Management, 2006
- University Accreditation, Steering Committee, 2002-2005
Faculty Engagement Subcommittee, 2002-2005
- Architect Selection Committee for Mandel Center Building, 2004
- Quality of Work-Life Committee, 2004
- Undergraduate Enrollment Management Team, 2001-2003
- Interim Dean, Mandel School of Applied Social Sciences, Jan.- June, 2002
- Freshman Advisor, 1997-1999, 2000-2002

Search Committee for Dean, Mandel School of Applied Social Sciences, 2001-2002
Associate Dean, College of Arts and Sciences, 2000-2001
Chair Council, College of Arts & Sciences, 1999-2001
Committee on Educational Programs, Subcommittee on General Education Requirements, College of Arts & Sciences, 2000-2001
Committee of Research Deans, 2000-2001
Dean's Advisory Group on Recruitment, 2000-2001
Executive Committee, College of Arts & Sciences, 1993-1996, Chair (1999-2000), 1998-2002
Faculty Senate, Committee on Compensation, 2000-2001
Graduate Committee, College of Arts & Sciences, 2000-2001
Research Day 2003, Planning Committee, 2001-2001
Undergraduate Scholars Committee, 2000-2001
University Undergraduate Faculty, Executive Committee, 1998-2001
Acting Chair, Department of Statistics, 1999-2000
Department of Communications Sciences, Senior Faculty Review Committee, Chair, 1987-90, 1994, Member, 1996, 2000
Faculty Senate, 1986-1991, 1992-1996, 1996-2000
Faculty Senate, Executive Committee, 1987-91, 1994-1995, 1997-2000
Orientation Task Force, 1999-2000
Schubert Center, Advisory Committee, 1997-2000
Department of Sociology, Promotion Review, 1998
President's Advisory Committee on Promotion and Tenure, 1997-1998
Advisory Committee on Undergraduate Advising, 1996-1997
Search Committee for Selah Chamberlain Chair in Sociology, 1995-1997
Task Force on Professional Internships, 1996-1997
Search Committee for Assistant Dean of Freshmen and Assistant Dean for Advising, 1995-1996.
Senior Faculty Review Committee, Department of Communications Sciences, Chair, 1987-90, 1994, Member, 1996
Teaching Evaluation Committee, Arts & Sciences, 1995-1996
Advisory Board, Office of Geriatric Medicine, School of Medicine, 1990-1995
Honorary Degree Committee, 1994-1995
Summer School Committee, Art & Sciences, 1994-1995
Acting Chair, Department of Psychology, 1994
Science Advisory Board, Teaching Nursing Home Program, 1987-1993
Search Committee for Chair of Department of Statistics, 1993-1994
Executive Committee, Humanities, Arts & Social Sciences, 1988-89, 1990-1993
Executive Committee, General Faculty, 1989, 1991-93, Chair (1992-1993)
Faculty Senate, University Libraries Committee, 1991-1993, Chair (1992-1993)
Faculty Senate, Information Resources Committee, 1992-1993
Committee on the Status of Women Faculty at the University, 1991
Chair, Department of Psychology, 1985-90
Chair, Faculty Senate, 1989-90
Vice-Chair, Faculty Senate, 1988-89

Chairs' Council, Humanities, Arts & Social Sciences, 1985-90
University Circle Inc., Member of Board and Executive Committee, 1988-89
Strategic Planning Committee for Humanities, Arts, & Social Sciences, 1989-90
Strategic Planning Committee for the Colleges, 1987-88
Budget Committee for Humanities, Arts and Social Sciences, 1987-88
Task Force for Restructuring the Colleges, 1986-87.
Director, Teaching Clerkship Program, Psychology, 1988-90
Student and Faculty Executive Roundtable (SAFER), 1988-89, 1991
University Policy Committee on Undergraduate Programs, 1985-1987
Department representative for undergraduate admissions, 1985-90
Director, Experimental Psychology Training Program, 1983-1987
Undergraduate Admissions Committee for Western Reserve College, 1981-1984
Case Institute of Technology Assembly, Curriculum Committee, 1977-1979
Western Reserve College Representative to Case Institute of Technology
Assembly, 1977-1979

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