

CURRICULUM VITAE (June, 2023)

Warren Shelburne Brown, Jr., Ph.D.

UNIVERSITY ADDRESS:

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EDUCATION:

- 1962-1966 B.A.: Point Loma Nazarene University (San Diego)
Major: Psychology. Minor: Religion. Graduated Magna Cum Laude.
- 1966-1968 M.A.: University of Southern California. Experimental Psychology (Physiological).
Thesis Title: Evoked Potential Correlates of Information Delivery and
Uncertainty in Downs Syndrome and Normal Children.
- 1968-1971 Ph.D.: University of Southern California. Experimental Psychology (Physiological).
Dissertation Title: Visual Evoked Potentials, Laterality of Eye
Movements and the Asymmetry of Brain Functions.

PROFESSIONAL TRAINING AND ACADEMIC POSITIONS:

- 1971-1973 Postdoc., Mental Health Training Prog., Brain Research Institute, UCLA.
- 1970-1975 Instructor in Psychology (part time), Point Loma Nazarene University.
- 1973-1975 Assistant Research Psychologist, Dept. of Psychiatry, UCLA School of Medicine.
- 1976-1977 Guest Professor, Dept. of Neurology, University Hospital, Zurich Switzerland.
- 1975-1982 Assist. to Assoc. Professor in Residence, Dept. of Psychiatry, UCLA School of Medicine.
- 1982-2002 Adjunct Associate Professor to Professor, Dept. of Psychiatry, UCLA School of Medicine.
- 1982- Member of Brain Research Institute, UCLA
- 1982-1984 Associate Professor Psychology, Graduate School of Psych., Fuller Theological Seminary.
- 1985- Professor of Psychology, Graduate School of Psychology, Fuller Theological Seminary.
- 1986 Visiting Scholar, Dept. of Communication and Neuroscience, Univ. of Keele, UK.
- 1991- Director, The Travis Research Institute, Fuller Grad School of Psychology.

PROFESSIONAL QUALIFICATIONS:

Licensed Psychologist, State of California (PSY 4554) [currently inactive]

HONORS AND AWARDS:

Research Scientist Development Award, Type I, 1975-1980
NSF Industrialized Countries Program for the Exchange of Scientists and Engineers, 1986
Point Loma University Alumni Award, 1977
Point Loma University Outstanding Alumnus, 1988
C. Davis Weyerhaeuser Teaching Excellence Award, 1992
American Men and Women of Science

PROFESSIONAL SOCIETIES:

American Psychological Association: Fellow of Division 40 (Neuropsychology)
and of Division 6 (Behavioral Neuroscience and Comparative Psychology)
Association for Psychological Science
International Neuropsychological Society
New York Academy of Sciences
American Association for the Advancement of Science
American Scientific Affiliation
International Society for Science and Religion (an elected academic academy)
National Organization of Disorders of the Corpus Callosum (current and founding board member)
International Research Consortium on the Corpus Callosum and Cerebral Connectivity (current and founding board member)

EDITORIAL REVIEWS FOR SCIENTIFIC JOURNALS AND GRANTING AGENCIES:

Science; Psychophysiology; Neuropsychologia; Child Neuropsychology; Developmental Neuropsychology; Neuropsychology; J. International Neuropsychology Society; J. Clinical and Experimental Neuropsychology; Biological Psychiatry; Experimental Brain Research; Cortex; Cognitive and Behavioral Neurology; Electroencephalography and Clinical Neurophysiology; Neurorehabilitation and Neural Repair; Archives of General Psychiatry; National Science Foundation; Psychological Bulletin; J. American Scientific Affiliation; American Psychologist; Alzheimer's Disease and Assoc. Disorders; Kidney International; Trends in Cognitive Science; Templeton Foundation.

GRADUATE COURSES TAUGHT:

Physiological Psychology; Human Neuropsychology; Neuropsych Assessment; Cognitive and Affective Psychology; EEG/ ERP Research Seminar; Neuropsych Research Seminar; Research Colloquium;
Portraits of Human Nature.

RESEARCH GRANTS

MH-03831 NIMH "Auditory Electrophysiology & Behavior", 1977-82; \$256,098; J.T. Marsh, P.I.; W. S. Brown, Co-P.I.
MH-00021 NIMH "EEG in Language and Cognitive Proc. and Dysfunction", 1975-1980
Research Scientist Development Award to W.S. Brown
MH-37665 NIMH "EEG (ERP) and Cognitive Deficits in Schizophrenic Children". 1984-1987; \$160,000; J.T. Marsh, P.I., W.S. Brown, Co-P.I.
INT-8603353 NSF "Focal Brain Sources of Speech Related EEG Potentials", 1986-87;
U.S.-Internat. Countries Prog. for Exchange of Scientists & Engineers: W.S. Brown
MH-37665 NIMH "EEG (ERP) and Cognitive Deficits in Schizophrenic Children". 1989-1990; \$143,451; J.T. Marsh, P.I.; R.J. Strandburg and W.S. Brown, Co-P.I.
USPHS Contract #101-90-0011 "Impact of Care Coordination - Case Facilitation on Stress, Immune Function, and Health"; 1991-92; \$28,244; W.S. Brown, P.I.
PP0244 Nat. Multiple Sclerosis Soc. "Dysconnection Syndromes in Multiple Sclerosis"; 1992-93; \$19,360; W.S. Brown, P.I.
USPHS Contract #93-0743-37 "A Computerized Version of the Bimanual Coordination Task: Validity, Reliability, Stability and Sensitivity"; 1994-96; \$23,530; W.S. Brown, P.I.
NICHD HD33118 "Cognitive and Psychosocial Profile of Callosal Agenesis" 1996-98; \$80,000, W.S. Brown, P.I.

- Templeton Foundation Grant, "Portraits of Human Nature", 1996-1997, \$80,000, W. Brown, N. Murphy and N. Malony project / book editors.
- Private Donors Grant, "Cognitive and Psychosocial Deficits in ACC", 2002-2004, \$30,000.
- Templeton Foundation Grant, "Did My Neurons Make Me Do IT?", 2003-04, \$9,000, to N. Murphy and W. Brown.
- Science and Transcendence Advanced Research Series (STARS) grant competition, Center for Theology and Natural Science. W. Brown, G. Peterson, K. Reimer, M. Spezio, and J. Van Slyke. "The Rationality of Ultimate Value: Emotion, Awareness, and Causality in Virtue Ethics and Decision Neuroscience", Jan-Dec, 2007, \$20,000; Jan-Dec, 2008, \$100,000; Jan-Dec, 2009, \$200,000.
- Templeton Foundation Grant, "Love, Compassion, and Care: Virtue Science and Exemplarity in Real Life and in the Laboratory" Michael Spezio, Steven Quartz and Warren Brown, Oct. 2012-Oct, 2014, \$1,270,000.

SCIENTIFIC PUBLICATIONS AND CHAPTERS (By Major Topic of Investigation):

Human Cognition and Interhemispheric Interactions:

1. Brown, W.S. and Jeeves, M. A. (1993) Bilateral field advantage and evoked potential interhemispheric transfer time. Neuropsychologia. 31, 1267-1281.
2. Brown, W.S., Larson, E.B., and Jeeves, M.A. (1994) Directional asymmetries in interhemispheric transfer time: Evidence from visual evoked potentials. Neuropsychologia. 32, 439-448.
3. Moore, L.H., Brown, W.S., Markee, T.E., Theberg, D.C., and Zvi, J. (1995) Bimanual coordination in dyslexia. Neuropsychologia. 33, 781-793.
4. Steese-Seda, D., Brown, W.S., and Caetano, C. (1995) Development of bimanual visuomotor coordination in school aged children: The Bimanual Coordination Task. Developmental Neuropsychology. 11, 181-199.
5. Moore, L.H., Brown, W.S., Markee, T.E., Theberge, D.C., and Zvi, J.C. (1996) Callosal transfer of finger localization information in phonologically dyslexic adults. Cortex. 32, 311-322.
6. Markee, T.E., Brown, W.S., Moore, L.H., Theberge, D.C., and Zvi, J.C. (1996) Callosal Function in Dyslexia: Evoked Potential Interhemispheric Transfer Time and Bilateral Field Advantage. Developmental Neuropsychology. 12, 409-428.
7. Larson, E.B. and Brown, W.S. (1997) Bilateral field interactions, hemispheric specialization and evoked potential interhemispheric transmission time. Neuropsychologia, 35, 573-581.
8. Brown, W.S., Bjerke, M.D., & Galbraith, G.C. (1998) Interhemispheric transfer in normals and acausals: Latency adjusted evoked potential averaging. Cortex, 34, 677-692.
9. Brown, WS, Jeeves, MA, Dietrich, R., and Burnison, D.S. (1999) Bilateral field advantage and evoked potential interhemispheric transmission in commissurotomy and callosal agenesis. Neuropsychologia, 37, 1154-1180.

10. Brown, W.S. and Paul L.K., (2000) Psychosocial deficits in agenesis of the corpus callosum with normal intelligence. Cognitive Neuropsychiatry. 5, 135-157.
11. Brown, W.S. and Banich, M.T. [Special Issue Guest Editors] (2000) Development of the Corpus Callosum and Interhemispheric Interactions. Developmental Neuropsychology, 18.
12. Banich, M.T. and Brown, W.S. (2000) A Lifespan Perspective on Interaction Between the Cerebral Hemispheres, Developmental Neuropsychology, 18, 1-10.
13. Hagelthorn, K.M., Brown, W.S., Amano, S., and Asarnow, R. (2000) Normal development of bilateral field advantage and evoked potential interhemispheric transmission time. Developmental Neuropsychology, 18, 11-32.
14. Brown, W.S., Thrasher, E.D., and Paul, L.K. (2001) Interhemispheric Stroop effect in partial and complete agenesis of the corpus callosum. Journal of the International Neuropsychological Society. 7, 302-311.
15. Larson, E.B., Burnison, D.S. and Brown, W.S. (2002) Callosal Function in Multiple Sclerosis: Bimanual Motor Coordination. Cortex. 38, 201-214.
16. Hines, R.J., Paul, L.K. and Brown, W.S. (2002) Spatial attention in agenesis of the corpus callosum: Shifting attention between visual fields. Neuropsychologia. 40, 1804-1814.
17. Brown, W.S. (2003) Clinical neuropsychological assessment of callosal dysfunction: Multiple sclerosis and dyslexia. In E. Zaidel, and M. Iacoboni (Eds.). The Parallel Brain: The Cognitive Neuroscience of the Corpus Callosum. Cambridge: MIT Press.
18. Paul, L.K., Van Lancker, D., Schieffer, B. and Brown, W.S. (2003) Communicative deficits in individuals with agenesis of the corpus callosum: Nonliteral language and affective prosody. Brain and Language. 85, 313-324,
19. Marion, S.D., Killian, S.C., Naramor, T., and Brown, W.S. (2003) Normal Development of Bimanual Coordination: Visuomotor and Interhemispheric Aspects. Developmental Neuropsychology 23, 399-421.
20. Paul, L.K., Schieffer, B., and Brown, W.S. (2004) Social Processing Deficits in Agenesis of the Corpus Callosum: Narratives from the Thematic Apperception Test. Archives of Clinical Neuropsychology. 19, 215-225
21. Lee, G. P., Meador, K. J., Loring, D.W., Allision, J.D., Brown, W.S., Paul, L.K., Pillai, J.J., and Lavin, T.B. (2004) Neural Substrates of Emotion as Revealed by Functional Magnetic Resonance Imaging. Cognitive and Behavioral Neurology. 17, 9-17.
22. Roebuck-Spencer, T.M., Mattson, S.N., DeBoard Marion, S., Brown, W.S., and Riley, E. (2004) Bimanual coordination in alcohol-exposed children: Role of the corpus callosum. Journal of the International Neuropsychological Society. 10, 536-548.

23. Brown, W.S., Paul, L.K., Symington, M., and Dietrich, R. (2005) Comprehension of Humor in Primary Agenesis of the Corpus Callosum. Neuropsychologia. 43:906-916.
24. Brown, W.S., Symington, M., VanLancker, D., Dietrich, R. and Paul, L.K. (2005) Paralinguistic processing in children with Callosal Agenesis: Emergence of neurolinguistic deficits. Brain and Language. 93, 135-139.
25. Paul, L.K., Lautzenhiser, A., Brown, W.S., Spezio, M., Neumann, D., & Adolphs, R. (2006) Emotional Arousal in Agenesis of the Corpus Callosum. International Journal of Psychophysiology. 61. 47-56.
26. Paul, L.K., Brown, W.S., Adolphs, R., Tyszka, J.M., Richards, L.J., Mukherjee, P., and Sherr, E.H. (2007) Agenesis of the corpus callosum: Genetic, developmental, and functional aspects of connectivity. Nature Reviews Neuroscience. 8, 287-299.
27. Moes, P., Brown, W.S., and Minnema, M. (2007) Individual differences in interhemispheric transfer time (IHTT) as measured by event related potentials. Neuropsychologia, 45, 2626-2630.
28. Badaruddin, D.H. Andrews, G.L., Bölte, S., Schilmoeller, K.J., Schilmoeller, G., Paul, L.K. and Brown, W.S. (2007) Social and Behavioral Problems of Children with Agenesis of the Corpus Callosum. Child Psychiatry and Human Development. 38:287-302.
29. Kilian, S., Brown, W.S., Hallam, B.J., McMahon, W., Lu, J., Bigler, E.D., and Lainhart, J.E. (2008). Regional callosal morphology in autism and macrocephaly. Developmental Neuropsychology. 33: 1-26.
30. Hallam, B.J., Brown, W.S., Ross, C., Buckwalter, J.G., Bigler, E.D., Tschanz, J.T., Norton, M.C., Welsh-Bohmer, K.A., and Breitner, J.C.S. (2008) Regional Atrophy of the Corpus Callosum in Dementia. Journal of the International Neuropsychological Society. 14, 1-10.
31. Mueller, K.O., Marion, S. D., Paul, L.K., and Brown, W.S. (2010) Bimanual Motor Coordination in Agenesis of the Corpus Callosum. Behavioral Neuroscience. 123(5), 1000-1011.
32. Turk, A., Brown, W.S., Symington, M., and Paul, L.K., (2010) Social Narratives in Agenesis of the Corpus Callosum: Linguistic Analysis of the Thematic Apperception Test. Neuropsychologia. 49, 43-50.
33. Symington, S.H., Brown, W.S., Symington, M., Ono, M., Paul, L.K. (2010) Social Inference in Individuals with Agenesis of the Corpus Callosum. Social Neuroscience. 5, 296-308.
34. Marco, E.J., Harrell, K.M., Brown, W.S., Hill, S.S., Jeremy, R.J., Kramer, J.H. Sherr, E.H., and Paul, L.K. (2012) "Processing speed delays contribute to executive function deficits in individuals with agenesis of the corpus callosum" Journal of the International Neuropsychological Society. 18, 521-52.
35. Hinkley, L.B.N., Marco, E.J., Findlay, A.M., Honma, S., Jeremy, R.J., Strominger, Z., Bukshpun, Wakahiro, M., Brown, W.S., Paul, L.K., Barkovich, A.J., Mukherjee, P., Nagarajan, S.S., Sherr,

- E.H. (2012) "The role of corpus callosum development in functional connectivity and cognitive processing" *PLoS ONE*. 10,1371.
36. Brown, W.S., Anderson, L., Symington, M. F. & Paul, L.K. (2012) "Decision-Making in Agenesis of the Corpus Callosum: Expectancy-Valence in the Iowa Gambling Task" *Archives of Clinical Neuropsychology*. 27(5): 532-544.
37. Erickson, R. L., Paul, L.K., and Brown, W.S. (2014) "Verbal Learning and Memory in Agenesis of the Corpus Callosum" *Neuropsychologia*. 60, 121–130.
38. Bridgman, M.W. Brown, W.S. Spezio, M.L., Leonard, Adolphs, R. and Paul, L.K. (2014) "Facial Emotion Recognition in Agenesis of the Corpus Callosum" *Journal of Neurodevelopmental Disorders*. 6:32 doi:10.1186/1866-1955-6-32
39. Paul, L. K., Erikson, R., Hartman, J., and Brown, Warren S. (2016) "Memory functioning in individuals with agenesis of the corpus callosum" *Neuropsychologia*. <http://dx.doi.org/10.1016/j.neuropsychologia.2016.04.013>
40. Rehmel, J.L., Brown, W.S. and Paul, L.K. (2016) "Proverb Comprehension in Individuals with Agenesis of the Corpus Callosum" *Brain and Language*. 160, 21-29. <http://dx.doi.org/10.1016/j.bandl.2016.07.001>
41. Anderson, L.B., Paul, L.K., and Brown, W.B. (2017) "Emotional Intelligence in Agenesis of the Corpus Callosum" *Archives of Clinical Neuropsychology*. doi: 10.1093/arclin/acx001
42. Brown W.S. and Paul, L.K. (2019) "The Neuropsychological Syndrome of Agenesis of the Corpus Callosum" *Journal of the International Neuropsychological Society*. 25:324-330. doi:10.1017/S135561771800111X
43. Young C. M., Folsom, R. C., Paul, L.K., Su, Judy, Mangum, R. and Brown, W.S. (2019) "Social Cognition in Agenesis of the Corpus Callosum: Computational Linguistic Analysis of the Awareness of Consequences Scale", *Neuropsychology*. Vol 33:2 doi:10.1037/neu0000512
44. Brown, W.S., Panos, A. and Paul, L.K. (2020) "Impulsivity, Vigilance and Attention in Agenesis of the Corpus Callosum" *Neuropsychology*. doi: 10.1037/neu0000685.
45. Paradiso, S., Brown, W.S., Porcerelli, J.H., Tranel, D., Adolphs, R., & Paul, L.K. (2020) "Integration Between Cerebral Hemispheres Contributes to Defense Mechanisms." *Frontiers Psychology*. 11,1534 doi: 10.3389/fpsyg.2020.01534
46. Brown, W.S., Burnett, K., Vaillancourt, A., & Paul, L.K. (2021) "Appreciation of Social Norms in Agenesis of the Corpus Callosum." *Archives of Clinical Neuropsychology*. doi:10.1093/arclin/acab003
47. Mangum, R.W, Miller, J.S., Brown, W.S., Nolty, A.T., & Paul, L.K. (2021) "Everyday Executive Function and Self-Awareness in Agenesis of the Corpus Callosum." *Journal of the International Neuropsychological Society*. doi:10.1017/S1355617721000096

48. Renteria-Vazquez, T., Brown W.S., Kang, C., Graves, M., Castelli, F., & Paul, L.K. (2021) “Social Inferences from Animations in Agenesis of the Corpus Callosum and Autism: Semantic Analysis and Topic Modeling” *Journal of Autism and Developmental Disorders*.
49. Paul, L. K., Paziienza, S., and Brown, W. S. (2021) “Alexithymia and somatization in agenesis of the corpus callosum.” *Social Cognition and Affective Neuroscience*. doi: 10.1093/scan/nsab056
50. Su, J., Paul L.K., Graves, M., Turner, J.M., and Brown, W.S. (2023) “Verbal Problem Solving in Agenesis of the Corpus Callosum: Analysis Using Semantic Similarity”, *Neuropsychology*, doi: 10.1037/neu0000894
51. Brown, W.S., Hoard, M., Birath, B., Graves, M., Nolty, A., and Paul, L.K. (under review) “Imaginative Elaboration in Agenesis of the Corpus Callosum: Topic Modeling and Perplexity”
52. Kaplan, J., Longino, S.M., Brown, W.S., Hart, A., Adolphs, R., and Paul, L.K. (under review) “Personality and Psychological Symptoms in Agenesis of the Corpus Callosum”
53. Brown, W.S. and Paul, L.K. (under review) “The Corpus Callosum and Creativity: Revisited.” *Frontiers in Human Neuroscience: The Legacy of Dr. Roger Sperry: Current Advances in Brain Lateralization and Interhemispheric Transfer*.
54. Paul, L.K, Dunn, C.M., Schieffer, B., Symington, M., Nolte, A.A. Garrels, S.R., and Brown, W.S. (under review) “Spatial tactile interhemispheric transfer and task complexity in agenesis of the corpus callosum.” *Frontiers in Human Neuroscience: The Legacy of Dr. Roger Sperry: Current Advances in Brain Lateralization and Interhemispheric Transfer*.

Adult and Childhood Psychopathology:

55. Strandburg, R.J., Marsh, J.T., Brown, W.S., Asarnow, R.F. and Guthrie, D. (1984) ERP Concomitants of Attention Disorder in Schizophrenic Children. Electroencephalog. and Clinical Neurophysiol. 57:236-253.
56. Strandburg, R.J., Marsh, J.T., Brown, W.S., Asarnow, R.F. and Guthrie, D. (1987) P3, PCA and Schizophrenia: Amplitude or Latency? In R. Johnson, J.W. Rohrbaugh, and R. Parasuraman, Eds., Current Research in Event-related Brain Potentials. Supplement to Electroencephalo-graphy and Clinical Neurophysiology, 756-761.
57. Strandburg, R., Marsh, J., Brown, W., Asarnow, R., Guthrie, D. and Higa, J. (1990) ERP Correlates of Impaired CPT Performance in Schizophrenic Children. Biological Psychiatry. 27, 1103-1115.
58. Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1991) Reduced Attention-Related Negative Potentials in Schizophrenic Children. Electroencephalography and Clinical Neurophysiology. 79, 291-307.
59. Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1993) Event-related Potentials in High Functioning Adult Autistics: Linguistic and Nonlinguistic Visual Information Processing Tasks. Neuropsychologia. 31, 413-443.

60. Strandburg, R.J., Marsh, J.T., Brown, W.S., Asarnow, R.F., Guthrie, D., Higa, J., Harper, R., Yee, C. and Nuechterlein, K. (1994) Reduced Attention-Related Negative Potentials in Schizophrenic Adults. Psychophysiology. 31, 272-281.
61. Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1994) Continuous processing-related ERPs in schizophrenic and normal children. Biological Psychiatry. 35, 525-538.
62. Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1994) EEG Continuity in information processing deficits across childhood and adult onset schizophrenia. Schizophrenia Bulletin. 20, 685-695.
63. Asarnow, R.F., Brown, W.S., & Strandburg, R.J. (1995) Children with schizophrenic disorder: Neurobehavioral studies. European Archives of Psychiatry & Clinical Neuroscience. 242, 70-79.
64. Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D. and Higa, J. (1996) Continuous processing-related ERPs in children with attentional deficit disorder. Biological Psychiatry. 40, 964-980.
65. Strandburg, R., Marsh, J.T., Brown, W.S., Asarnow, R., Guthrie, D., Harper, R., Yee, C.M. & Neuchterlein, KH. (1997) Event-related potential correlates of linguistic information processing in schizophrenia. Biological Psychiatry. 42, 596-608.
66. Strandburg, RJ, Marsh, JT, Brown, WS, Asarnow, R, Guthrie, D, Harper, R, and Nuechterlein, KH. (1999) Continuous Processing Related ERPs in Adult schizophrenia: Continuity with Childhood Onset Schizophrenia. Biological Psychiatry. 45, 1356-1369.

Cognitive Status in Kidney Disease and Dialysis Treatment:

67. Tennyson, T., Brown, W., Vaziri, N. and Jennison, J. (1985) Event-related potential changes during hemodialysis. Journal of Artificial Organs. 80, 269-276.
68. Marsh, J., Brown, W., Wolcott, M., Landsverk, J., and Nissenson, A. (1986) Electrophysiological function in hemodialysis and CAPD. Kidney International. 30, 957-963.
69. Marsh, J.T., Brown, W.S., Wolcott, D., Carr, C., Harper, R., Schweitzer, S. and Nissenson, A. (1991) rHu EPO treatment improves brain and cognitive function of anemic dialysis patients. Kidney International. 39, 155-163.
70. Brown, W.S., Marsh, J.T., Wolcott, D., Carr, C., Takushi, R., Higa, J., Schweitzer, S.V., and Nissenson, A. (1991) Cognitive function, mood and P3 latency: Effects of the amelioration of anemia in dialysis patients. Neuropsychologia. 29, 35-45.
71. Nissenson, A.R., Marsh, J.T., Brown, W.S. and Wolcott, D.L. (1991) Central nervous system function in dialysis patients: A practical approach. Seminars in Dialysis. 4, 115-123.
72. Brown, W.S. Electroencephalography in the evaluation of function in dialysis patients.

73. In A. Nissenson and R. Fine, Eds. Dialysis Therapy, 2nd Edition, Hanley & Belfus, 1993.
74. Pickett, J.L., Theberge, D.C., Brown, W.S., Schweitzer, S.U., and Nissenson, A.R. (1999) Normalizing HCT in Dialysis Patients Improves Brain Function. American Journal of Kidney Disease, 33(6):1122-30.

Brain Wave Correlates of Language Processing

75. Brown, W.S., Marsh, J.T. and Smith, J.C. Contextual meaning effects on speech evoked potentials. Behavioral Biology, 9, 755-761, 1973.
76. Marsh, J.T. and Brown, W.S. Evoked potential correlates of meaning in the perception of language. In J.E. Desmedt (Ed.) Language and Hemispheric Specialization in Man: Cerebral Event-Related Potentials. (Basel, Switzerland; Karger, 1977).
77. Brown, W.S., Marsh, J.T., and Smith, J.C. Evoked potential waveform differences produced by the perception of different meanings of an ambiguous phrase. Electroencephalog. and Clinical Neurophysiol., 41, 113-123, 1976.
78. Brown, W.S. Individual differences and similarities in EP correlates of linguistic meaning. In D. Otto (Ed.) Multidisciplinary Perspectives in Event-Related Brain Potential Research. EPA-600/9-77-043 U.S. Government Printing Office, Washington, D.C., (1977).
79. Brown, W.S., Lehmann, D. and Matzener, C. Scalp topography of EEG potentials evoked by nouns and verbs. Medita: Medizin-Technik in der Schweiz. M. Anliker, Ed. (Solothurn, Switzerland; Vogt-schild, 1977).
80. Brown, W.S. and Lehmann, D. Linguistic meaning-related differences in ERP scalp topography. In D. Lehmann and E. Callaway, Human Evoked Potentials: Applications and Problems (New York, Plenum, 1979).
81. Brown, W.S., Marsh, J.T. and Smith, J.C. Principal component analysis of ERP differences related to the meaning of an ambiguous word. Electroencephalog. and Clinical Neurophysiol., 46, 709-714, 1979.
82. Lehmann, D., Brown, W.S. and Matzener, C. Hirnpotentiale evoziert durch homophone Wörter: Topographische Unterschiede durch Verb-und Substantiv-Bedeutung. Der Nervenarzt, 50, 147-153, 1979.
83. Brown, W.S., Lehmann, D. and Marsh, J.T. Linguistic meaning-related differences in evoked potential topography: English, Swiss- German and Imagined. Brain and Language, , 11, 340-353, 1980.
84. Brown, W.S., and Lehmann, D. Verb and noun meaning of homophone words activate different cortical generators: A topographical study of evoked potential fields. In O. Creutzfeld, H. Scheich, and C. Schreiner (Eds.) Experimental Brain Research, Suppl. II: Hearing Mechanisms and Speech. 1979.

85. Brown, W.S., Marsh, J.T. and Ponsford, R.E. Hemispheric differences in event-related brain potentials. Invited chapter in E. Zaidel and F. Benson, Ed. The Dual Brain: Hemispheric Specialization in Humans. New York, The Guilford Press, 1985.
86. Brown, W.S., Marsh, J., Ponsford, R. and Travis, L. Language laterality, sex and stuttering: ERPs to contextual meaning. In G.C. Galbraith, M. L. Kietzman and E. Donchin, Eds. Neurophysiology and Psychology: Experimental and Clinical Applications. (New Jersey, Lawrence Erlbaum Assoc., 1988).

P300 Latency in Aging and Dementia:

87. Brown, W.S., Marsh, J.T. and LaRue, A. Event-related potentials in psychiatry: Differentiating depression and dementia in the elderly. Bulletin of the Los Angeles Neurological Society. 47, 91-107, 1982.
88. Brown, W.S., Marsh, J.T., and LaRue, A. Exponential electrophysiological aging: P3 latency. Electroencephalog. and Clinical Neurophysiol. 55: 277-285, 1983.
89. Ball, S., Marsh, J.T., Schubarth, G., Brown, W.S. and Strandburg, R. Longitudinal P300 Latency Changes in Alzheimer's Disease. Journal of Gerontology: Medical Sciences. 44, M195-200, 1989.
90. Marsh, J.T., Schubarth, G., Brown, W.S., Riege, W., Strandburg, R., Dorsey, D. Martese, A. and Kuhl, D. PET and P300 Relationships in Early Alzheimer's Disease. Neurobiology of Aging. 11, 471-476. 1990.
91. Marsh, J., Schubarth, G., Brown, W., Riege, W., Strandburg, R., Dorsey, D. Martese, A. and Kuhl, D. PET and P300 Relationships in Early Alzheimer's Disease. Clini. Digest Series, 1991.

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30. Kameron J. Rigg, Matthew Wallace, Kutter D. Callaway, Lynn K. Paul, and Warren S. Brown, "Musical perception skills in Agenesis of the Corpus Callosum" *International Neuropsychological Society*, February, 2023.
31. Kaitlyn A. Nogales, Kutter D. Callaway, Lynn K. Paul, and Warren S. Brown, "Empathic Abilities of Individuals with Agenesis of the Corpus Callosum" *International Neuropsychological Society*, February, 2023.
32. Nathan M. LeFebre, Kutter D. Callaway, Lynn K. Paul, & Warren S. Brown, "Aesthetic Perception in Agenesis of the Corpus Callosum" *International Neuropsychological Society*, February, 2023.

INVITED PRESENTATIONS AND MAJOR LECTURES:

- "ERP Methods in Neurolinguistic Research". Invited address at the meeting of the Western EEG Society. Reno, Nevada, February, 1981.
- "Long latency event-related potentials: Applications in Clinical Psychiatry". Invited faculty for Application of Evoked Potentials in Clinical Medicine". Southwest Regional Medical Education Center and V.A. Medical Center, Wadsworth, July, 1981.
- "Hemispheric differences demonstrated by evoked response studies." The Dual Brain: Hemispheric specialization in the Human. UCLA Extension Conference, Jan. 1984.
- "Event-Related Potentials and Neuropsychological Correlates in Dementia and Other Disorders of the CNS". California Neuropsychological Society. July, 1985.
- Marsh, J.T. and Brown, W.S. "Event Related Potentials". At the Workshop on Early Diagnosis of Alzheimer's Disease, The J.D. French Foundation, Nov. 6-7, 1985.
- "P300 Latency Changes in Progressing Dementia". International Congress on Evoked Potentials. Budapest. May, 1992.
- "Brain Electrical Fields and Cognition". Keynote Address at the Opening of the Key Foundation for Brain-Mind Research, Zurich, Switzerland, June, 1994.
- "Clinical Neuropsychological Assessment of Callosal Dysfunction: Multiple Sclerosis and Dyslexia". The Role of the Corpus Callosum in Sensory Motor Integration. NATO Advanced Studies Institute: Tuscany, Italy, Sept. 1996
- "What is Human Dignity". Identity, Formation, Dignity --- The Impacts of Artificial Intelligence and Cognitive Science upon Jewish and Christian Understandings of Personhood. MIT Artificial Intelligence Laboratory, The Boston Theological Institute, and the Center for Faith and Science Exchange. April 30 - May 2, 1998.
- "Cognitive Contributions to Soul". Portraits of Human Nature. Joint meeting of the American Scientific Affiliation and Christians in Science, Cambridge, UK, August, 1998.
- "Cognitive Neuroscience, Personal Relatedness and Soul". Invited speaker at conference on Brain, Soul and Moral Agency, Center for the Natural Science. At George Fox University, Sept. 1998.

- "The Interpersonal Significance of a Fork: What Biomedical Engineering Should Do". Invited speaker at session on Biotechnology and Bioengineering: Medical Technology Perspective. Wescon/IC Expo, Sept. 1998.
- "Wisdom and Human Neurocognitive Systems: Perceiving and Practicing Laws of Life" Templeton Foundation Conference on The Science of Wisdom and the Laws of Life, Fuller Seminary, Oct. 1998.
- "Whatever Happened to the Soul?" Meeting of Christians in Neuroscience, Society for Neuroscience, Los Angeles, 1998.
- "Cognitive Neuroscience and a Wesleyan View of the Person" Presented at The Inaugural Meeting of the Society for Psychology and Wesleyan Theology. Point Loma Nazarene University, San Diego, Feb, 1999.
- "Top-Down Causation and Free Will". Conference on Neuroscience, Mental Causation, and Freedom of the Will. Center for Theology and Natural Sciences, Berkeley, April 8, 1999.
- "Neurocognitive Perspectives on Determinism and Free Will", Society of Christian Philosophers, Pacific Region, 2000.
- "Neuropsychology of Agenesis of the Corpus Callosum." Continuing Education Class, (with Lynn Paul) International Neuropsychological Society, 2001.
- "Whatever Happened to the Soul? First Annual Ladd Integration Lectures, Southern Nazarene University, Spring, 2001.
- "Neuroscience, Relatedness, and Soul" Trinity Institute's 32nd National Conference, Trinity Church, Wall Street, New York City, May, 2001
- "Freedom and Will: Seeking Resonance between Neuroscience and Wesleyan Theology." Keynote Speaker, Wesleyan Theological Society, March, 2002.
- "Body and Soul, or Soulish Body? Finding Resonance between Neuroscience, Psychology, and Theology." Scandrette Lecture, Wheaton College, April, 2002.
- "Neuropsychology and the Soul" R.S. Beal, Sr., Lecture, Colorado Christian University, Oct., 2002.
- "The Quiet Disabler", Plenary Lecture at the Educap Conference, Point Loma Nazarene University, March, 2003.
- "Emergence and Mental Causation" Conference on Reductionism and Emergence, University of San Francisco, 2003.
- "Agenesis of the Corpus Callosum: The ", National Organization of Disorders of the Corpus Callosum, Tulsa, 2003, 2004, 2005, 2006, 2007, 2008, 2009.
- "How to Reconcile Science and Faith: The Problem of Human Nature", Ladd Lectures, Southern Nazarene University, 2003.
- "Whatever Happened to the Soul? Finding Resonance Between Neuroscience, Psychology, and Theology" Beck Lecture on Science and Religion, Southwest College, Kansas, February, 2004.
- "Human Evolution and Human Nature: Scientific, Historical, and Theological Perspectives", Kansas State University, April, 2004.
- "Did my neurons make me do it? From Physicalism to Moral Agency"; Plenary Address, Joint meeting of the American Scientific Affiliation and the Canadian Scientific Affiliation, Trinity College, Vancouver B.C., July 25, 2004.

- "Understanding dualism without escaping to dualism"; Conference of The Gifts of Suffering: Spiritual Transformation, Science and Medicine, at the Joint meeting of the American Scientific Affiliation and the Canadian Scientific Affiliation, Trinity College, Vancouver B.C., July 25, 2004.
- "Neuropsychology and the Soul: Finding Resonance Between Neuroscience, Psychology, and Theology" Mt. Vernon Nazarene College, 2004 Lecturer/Artist Series, Nov. 9, 2004.
- "Neuropsychology of Agenesis of the Corpus Callosum" (W.S.Brown and L.K. Paul). Three-hour continuing education class at the National Academy of Neuropsychology, 2004 Conference, Seattle, WA.
- "Science, Faith, and Human Nature: Reconciling Neuroscience and Christian Theology", Fuller Graduate School of Psychology Integration Lectureship. Feb. 16-18, 2005.
- "Human Nature, Physicalism, Spirituality, and Healing: Theological Views of a Neuroscientist". Symposium on the Theological Interpretation of Scripture, North Park Theological Seminary, September, 2005
- Gilbert Lectures on Christianity and Psychiatry, Nazarene Theological Seminary, October, 2005.
- "Numinous or Embodied Persons? The Practical Costs of Inner Souls or Selves"
- "The Knotty Theological Implications of Recent Neuroscience Research"
- "Renewing the Physical Mind: Brain Systems, Emergence, Free Will, and Sanctification"
- "Dynamic Brain Systems: Toward an Understanding of Embodied Human Agency". Conference on Nonsupervenience. Ursinus College, Collegeville, PA., May, 2005.
- "A Thinking Reed: Emergence of Mind and Soul from Human Bodies" *Pascal Lecture*, Westmont College, April, 2006.
- Response to Stephen Post and John B. Cobb, Conference on Altruistic Love, Claremont, April 15, 2005
- "Nonreductive Human Uniqueness: Immaterial, Biological, or Psychosocial?" International Society for Science and Religion, Cambridge University, UK, July, 2006.
- "Reconciling Neuropsychology and Theology", Faraday Institute for Science and Religion. Cambridge Univeristy, UK, July, 2006.
- "Neuropsychology, Emergence, and Human Agency" Conference on *Emergence: A Better Vision of Nature, Science and Religion?* Zygon Center for Religion and Science, Lutheran School of Theology at Chicago, Sept. 28-30, 2006
- "Knotty Theological Implications of Modern Neuroscience " Keynote address at the *Frazer Lectures/Pollard Symposium*, Linfield College, Oregon, Oct., 2006.
- "Persons, Groups, and the Church". Presented at the *Wesleyan Theological Society*: March, 2007
- "Human Relationality and Social Neuroscience: Implications for Theology" *Conference on Open Theology and Science*, Eastern Nazarene College, July, 2007.
- "The Natural Split-Brain: Cognition, Mind, and Will" and "Did My Neurons Make Me Do It? Neuroscience, Emergence, and Free Will" *Symposium on Neuroscience and Christian Faith*, University of British Columbia and Trinity Western University, Vancouver, September 25 and 26, 2008.
- "Did my neurons make me do it? The Brain, the Mind and Non-reductive Physicalism" and "Neuroscience, Morality and Virtue", Faraday Institute for Science and Religion, Cambridge, UK, July, 2009

“Mind, Brain or Soul?” Annual Symposium on Science and Faith, La Jolla Presbyterian Church, March, 2010.

“Neuroscience, Psychology, and Faith: Levels of Explanation and the Search for Resonance”, Conference on Christianity and Psychology: Five Views, The Bryan Institute for Critical Thought and Practice, Dayton, TN, March, 2010.

Warren Brown and Michael Spezio, “Virtue Ethics, Neuroscience, and the Transcendent: New Insights from the Interaction Between Neuroscience, Psychology, Philosophy and Theology. STARS Conference, Center for Theology and Natural Science, Berkley.

Lecturer for *Voices in Interdisciplinary Studies and Integration*, Dept of Graduate Psychology, Azusa Pacific University, March 15-16, 2011.

- “Knotty Implications of Neuropsychology: Brain, Mind, Self & Soul”
- “The Mimetic Nature of Human Relations: The Roots of Interpersonal Conflict”
- “Views of Human Nature and Implications for Christian Formation and the Church”

“Brain Connectivity and the Emergence of Mind: Reflections from Callosal Agenesis and Autism”, Philosophy and Psychology invited lecture, South Dakota State University, March, 2012.

“Physical Humans and Embodied Belief: Preaching and the Nature of Mind” Plenary presentation at *Talk of God Talk of Science*, Fuller, May 2013.

“Embodiment, Embodied Cognition, and Virtue” Center for Christian Thought, BIOLA, February, 2013.

“Cognitive and Psychosocial Profile of Agenesis of the Corpus Callosum”, *Scientific Salon on White Matter Disorders in Development*, San Francisco, April 2013.

“Embodied Cognition and the Neurology of Religion,” Neurology of Religion Conference. Cambridge, UK. Sept, 2013.

“Free Will in a World of Neuroscience” Barnes Lecture, Roberts Wesleyan University, Rochester NY February 2014.

“Self-Organizing Personhood: Complex, Emergent, Developmental, Linguistic, Relational Neuropsychologicalism”, Conference on Human Nature(s): Moving Us Forward. Notre Dame, Spring 2014.

Brown, W.S., Strawn, B.D., and Smith, J.R. “The Nature of Persons and New Patterns and Practices of the Church” At *Interpreting Paul for the Future of the World Symposium: N.T. Wright Conference*, Pasadena, May, 2014.

“Knowing Ourselves: The Embodiment and Extension of Persons” *Institute on Religion in an Age of Science*. Star Island, NH, June 2016.

“Connecting the Hemispheres: A Brief History of Research on Callosal Agenesis and the Role of Malcolm Jeeves” *Conference In Honour of Professor Malcolm A. Jeeves*, University of St. Andrews, Nov. 2016.

Brown, W.S. and Strawn, B.D. “Beyond the Isolated Self: Externalism and Christian Life” Symposium on *Engaging the Philosophical Theology of Nancy Murphy*, American Academy of Religion, San Antonio, Nov. 2016.

“Neuroscience and Religious Experience”, China Lecture Tour, Dec 2-12, 2016.

- Institute of Psychology, Chinese Academy of Sciences, Beijing
- Nanjing Normal University
- Xiamen University

“The Embodiment of Religious Experience”, Science for Seminaries symposium, Graduate Theological Union, Berkeley. January, 2017.

“The Human Mind: Embodied, Embedded, and Extended”, Open Lecture, Loras College, Dubuque, Iowa, February, 2017.

"Neuroscience, Psychology and Religion: Illusions, Delusions, and Realities of Human Nature" Keynote address at the *2nd International Conference on Mind-Brain: Does the Brain Produce the Mind*, Universidade Federal de Juiz de Fora, Brazil, March 17-18, 2017.

"The Nature of Spiritual Experiences" Symposium at the *2nd International Conference on Mind-Brain: Does the Brain Produce the Mind*, Universidade Federal de Juiz de Fora, Brazil, March 17-18, 2017.

“Mind and Personhood: Complex Emergent Developmental Linguistic Relational Neurophysiologicalism” Graduate student workshop at Núcleo de Pesquisas em Espiritualidade e Saúde da Universidade Federal de Juiz de Fora, Brazil, March 19, 2017

“Did My Neurons Make Me Do It?” Open Lecture at Núcleo de Pesquisas em Espiritualidade e Saúde da Universidade Federal de Juiz de Fora, Brazil, March 19, 2017.

“Neuropsychology of ACC: TRI research on ACC” *International Research Consortium on the Corpus Callosum and Cerebral Connectivity*, Melbourne Australia, May, 2017.

“Cognitive and Psychosocial Abilities in Primary AgCC”, *Cortical Connections 2017*, The Royal Children’s Hospital, Melbourne, May, 2017.

“Agenesis of the Corpus Callosum: Cognitive Outcomes” *Conference of the Australian Disorders of the Corpus Callosum*, Melbourne, Ma7, 2017.

“Did My Neurons Make Me Do It?” *Science and Faith Examined*, Caltech, May, 2017.

“Disability, Dependence and Flourishing,” *2017 Summer Institute on Theology and Disability*, Azusa Pacific University, June, 2017.

Inaugural Neuroscience Lectures, Valparaiso University (March, 2019)

- “Contextualizing Neuroscience: The Boundaries of Human Intelligence”
- “The Natural Split Brain: The Cognitive Outcome of Disconnected Hemispheres”

“The Physical Nature of Christian Life: Neuroscience, Psychology and the Church” *Annual Lecture on Faith and Reason*, Carroll College, Helena, Montana (April, 2019).

Los Alamos Faith and Science Forum, Los Alamos, New Mexico (July, 2019)

- “Did My Neurons Make Me Do It?”
- “Contextualizing Neuroscience: The Boundaries of Human Intelligence”

Fuller Studio book discussion with Brad Strawn and Amos Yong (11/21):

<https://fullerstudio.fuller.edu/podcast/warren-brown-and-brad-strawn-on-extended-cognition/>

Interview with Kutter Callaway, *Fuller Dialogues, Psychological Sciences and Ministry* “Complex Dynamical Systems: The Neuroscience of Human Personhood” (12/21)
<https://youtu.be/Xba6DwZH6U4> (and 5 more)

Interview. “Did My Neurons Make Me Do It?” on Geoff Holsclaw, *Being With* podcast (6/21)
<https://beingwithpodcast.buzzsprout.com/1752092/8491200-008-did-my-neurons-make-me-do-it-with-dr-warren-brown>

Interview with Luke Jansses on *Recovering Evangelicals* #75?
<https://podcasts.apple.com/us/podcast/recovering-evangelicals/id1496508169>

Speaker: *Creativity and the Brain* Psychology, Research Forum, Northwest Nazarene University (4/22)

Speaker: *Did My Neurons Make Me Do It?* Special Chapel, Northwest Nazarene University (4/22)

OTHER INVITED LECTURES AT UNIVERSITIES AND HOSPITALS

Department of Neurology, University Hospital, Zurich, Switzerland, November, 1976.
Department of Psychology and Sociology, University of Konstanz, Germany, March, 1977.
Department of Psychology, University of Dundee, Scotland, May, 1977.
Institute of Physiology, School of Medicine, University of Lausanne, Switzerland. June, 1977.
Psychiatric Hospital, I.N.S.E.R.M., Lyon, France. August, 1977.
U.S.C. Department of Education, Extension, Frankfurt and Nuremberg, Germany. 1977.
Summer Psychology Tour, Covenant College, Tennessee, Summers 1978-1981.
Point Loma College, Science Lecture Series, San Diego, California, Spring, 1980.
C.M.E. Seminar, Brotman Medical Center, Oct., 1983.
Psychology Colloquium, California State University, Fullerton, Jan., 1984.
City of Hope National Medical Center, Dept. of Pediatrics, Nov., 1984.
University of Southern California Medical School, Dept. of Pediatrics. May, 1985.
Orange County Neuropsychology Group, Sept. 18, 1985.
Boston V.A. Hospital, Neuropsychology Group, April 10, 1986.
Brain Research Institute and Neurological Clinic, University of Zurich, Switzerland, June, 1986.
Department of Communication and Neuroscience, University of Keele, England, 1986.
Depart. of Postgraduate Medicine: Division of Psychiatry. University of Keele, England, 1986.
Psychology Colloquium, Dept. of Psychology, University of St. Andrews, Scotland, Oct., 1986.
U. S. Public Health Service, University of Maryland, March, 1987.
Institute of Psychology, Academy of Sciences, Moscow, Russia, 1991.
Pedagogical Institute, Kiev, Ukraine, 1991.
Della Martin Center for Behavioral Services, Huntington Hospital, Pasadena, Calif., Feb. 1994.
Physiology Institute, Justus-Liebig University, Giessen, Germany, June, 1994.
Northwest Nazarene College, Nampa, Idaho, June, 1995.
Children’s Hospital of Orange County, March, 1997.
Eastern Nazarene University, Quincey, MA, May, 1998.
George Fox University, Newburg, Oregon, Sept., 1998.
University of California, Riverside, April, 1999.
Northwest Nazarene University, Faculty Retreat, McCall, Idaho, Sept. 1999.

Covenant College, September, 2002 (2 lectures)
Calvin College, October, 2002. (2 lectures)
UCLA Neuropsychiatric Institute, Intern seminar. March, 2005.
Point Loma Nazarene University, March, 2006.
Westmont College, April, 2006
University of St. Andrews, Scotland, 2009
UC Irvine, 2009
Claremont Colleges, 2009
Science and Religion lecture, University of South Dakota, March, 2012
Conversations in Theology and Science, University of Sioux Falls, March, 2012
Science and Religion lecture, University of South Carolina, March, 2012
Brain Week Lecture, Azusa Pacific University, March, 2012
Science & Religion Study Group, Trinity Episcopal Church, March, 2013.
Remote zoom guest lecture for a Boston College class in practical theology, Prof. Colleen Griffith (10/21)
Speaker: *Creativity and the Brain* Psychology, Research Forum, Northwest Nazarene University (4/22)
Speaker: *Did My Neurons Make Me Do It?* Special Chapel, Northwest Nazarene University (4/22)