

CURRICULUM VITA

Dawn Bowers, Ph.D.

CONTACT INFORMATION

Business Address: University of Florida
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Citizenship United States

EDUCATION

High School: Marianna High School (1968)
 Valedictorian

College: Emory University (1968-70)
 University of Florida, B.A., 1972, Magna Cum Laude

Graduate School: University of Florida, M.A., 1974
 Clinical Psychology

University of Florida, Ph.D., 1978, Clinical
 Psychology [Neuropsychology]

Doctoral Dissertation: *Material Specific Hemispheric
 Activation*; (Co-Chairs: Paul Satz, Ph.D., Kenneth
 M. Heilman, M.D.)

Internship	Clinical Psychology/ Neuropsychology, 1976-77 Boston Veterans Administration Medical Center Supervisors: Edith Kaplan, Harold Goodglass, <i>Neurogeriatrics Externship</i> : Framingham Heart Study <i>Pediatric Neuropsychology Externship</i> : Martha Denckla
Post-Doctoral	Neurobehavioral Research Fellow, 1978-1979, Department of Neurology, University of Florida (Mentor: Kenneth M. Heilman, M.D.)
Licensure	Florida PY0003179, 1983

PROFESSIONAL BACKGROUND

Current Appointments	UF Foundation Research Professor, University of Florida, 2006-2009 Neuropsychology Area Head, Department of Clinical and Health Psychology, College of Public Health and Health Professions, University of Florida, 2006- Professor in Clinical and Health Psychology, College of Public Health and Health Professions, University of Florida, Gainesville, Florida, 2004- Director, Cognitive Neuroscience Laboratory, Evelyn F. and William L. McKnight Brain Institute, 2000- present Adjunct Professor of Neurology, College of Medicine, University of Florida, 1998-ongoing Doctoral Research Faculty, University of Florida, 1984- Graduate Faculty Status, University of Florida, 1980-
Past Appointments	Associate Professor of Clinical & Health Psychology, University of Florida, Gainesville, Florida, 1985-2005 Associate Professor of Neurology, College of Medicine, University of Florida, Gainesville, Florida, 1985-2005 Research Director, Pallidotomy Clinical Research Program, College of Medicine, 1995-1998 Director, Clinical Neuropsychology Research Laboratory, Department of Neurology, College of Medicine, 1994-1998 Senior Neuropsychologist, State of Florida Memory Disorders Clinic at the University of Florida, College of Medicine, 1986-1998

Associate Professor of Clinical and Health Psychology,
College of Health Professions, Adjunct Professor, University
of Florida, 1985-1998

Assistant Professor of Neurology, University of Florida
College of Medicine, Gainesville, Florida, 1980-1984

Post-doctoral Neurobehavioral Fellow, Department of
Neurology, University of Florida College of Medicine,
1979-1980

Research Associate, Department of Neurology
Neuropsychology Laboratory, University of Florida College
of Medicine, 1977-1978

Teaching Fellow in Neurology, Boston University, College of
Medicine, 1976-1977

Graduate Research Assistant, Neuropsychology Laboratory,
Department of Clinical and Health Psychology, University of
Florida, 1974-1976 (Supervisor: Paul Satz, Ph.D.)

Research Assistant, Department of Clinical and Health
Psychology, University of Florida, Gainesville, FL 1973-
1974 (Supervisor: Molly Harrower, Ph.D.)

Graduate Teaching Assistant (Personal Growth, Abnormal
Psychology), Department of Psychology, University of
Florida, 1972-73

PROFESSIONAL ORGANIZATIONS

American Psychological Association, Divisions 12 (Clinical
Psychology), Division 40 (Neuropsychology)

Women in Neuropsychology (WIN), Charter Member, APA
Division 40

International Neuropsychology Society, 1975-present;

Cognitive Neuroscience Society, 1994-present

Society for Neuroscience, 1994-present

American Psychological Society

Memory Disorders Research Society (Charter Member),
1988-2000

GRANTS AND CONTRACTS

Co-Investigator: *Scheduled and Responsive Brain Stimulation for the Treatment of Tourette Syndrome*. National Institutes of Mental Health (1R34MH080764), (MS Okun, PI), 2008-2011.

Principal Investigator: *Masked Faces in Parkinson Disease: Mechanism and Treatment*. Funded by National Institutes of Neurologic Disease and Stroke, R01-NS50633), 2004-2009, \$1,250,000.

Co-Principal Investigator. *Repetitive Transcranial Magnetic Stimulation for the Treatment of Apathy in Parkinson's Disease* (The Restore Study). Funded by Michael J. Fox Foundation, (H. Fernandez, PI), 2006-2008

Mentor, Institutional Training Grant (T32-DC008768), *Training in treatment of communication disorders and in translational neuroscience* (funded by National Institute of Deafness and Communication Disorders/NIH (L. Gonzalez-Rothi, PI), 7/1/2007-3/31/2012, \$812,217

Principal Investigator: *Aging, emotional memory, and the amygdala-hippocampus*, funded by Evelyn F. and William B. McKnight Research Award, University of Florida, 2003-2005, \$70,000.

Principal Investigator: *Digitizing the Face: Priming, TMS, and Hemispheric Asymmetries*, funded by National Institutes of Mental Health, MH62458, 2002-2006, \$850,000.

Co-Investigator: *The Influence of Tourniquet Time on Cerebral Embolic Events in Elderly Patients Undergoing Total Knee Arthroplasty*, funded by the University of Florida Opportunity Fund, (T. Monk, PI), 2002-2003, \$30,000.

Co-Investigator: *A Clinical Trial of Transcranial Magnetic Stimulation in Treatment of Depression*, funded by Medical Research Service of Veterans Administration, (S. Nadeau, PI), 2001-06, \$657,000.

Co-Investigator: *Pain Assessment in Nursing Home Residents*", funded by National Institutes of Nursing (NIH), (A. Horgas, PI), 2001-04, \$472,775.

Co-Investigator: *Cognitive Function after Coronary Artery Bypass Graft surgery with or without cardiopulmonary bypass*", funded by Florida Biomedical Research Fund, State of Florida, (Davies, PI), 2001-2003, \$298,000.

Principal Investigator: *Cortisol, Emotional Reactivity, and Temporal Lobe Dysfunction*, funded by University of Florida Opportunity Fund, 2001-02, \$30,000.

Principal Investigator: *Odor Affectivity: Impact of Temporal lobe ablations*, funded by National Institutes of Mental Health, Project 7 of NIMH "Center for the Study of Attention and Emotion (Peter Lang, Center PI), #P50-5238-007, 1994-2001, \$234,386.

Principal Investigator: *Disordered Affect Modulation after Hemispheric Dysfunction*. funded by National Institutes of Mental Health, (NIMH), #R01-MH5243, 1996-2000, 482,481.

Principal Investigator: *Parkinson's Disease and Pallidotomy: Digitizing the Masked Face*, funded by University of Florida Office of Research and Graduate Education, Faculty Development Award, \$30,000, 1996-1997.

Consultant: *HIV: Neuropsychiatric and Psychoimmune Relationships*, funded by National Institute of Mental Health, R01-MH44618, (D. Evans, PI), 1995-2000, \$5,362,308.

Principal Investigator: *Affect Modulation after Unilateral Temporal Lobectomy*, funded by National Institute of Neurologic Disease and Stroke (NINDS), #R01-NS32911, 1994-1998, \$ 390,094.

Co-Principal Investigator: *Emotion and Hemisphere Dysfunction*, funded by National

Institute of Mental Health, R01 MH48861, (K. Heilman, PI), 1994-1997, \$486,000.

Co-Investigator: *Psychophysiology of implicit memory in Alcoholic Amnesia*, funded by National Institutes of Alcohol Abuse and Alcoholism, R01-AA06203, (R. Bauer, PI), 1991-1994, \$248,000.

Principal Investigator: *Stroke and Affect*, funded by University of Florida *Division of Sponsored Research*, Graduate Assistant Fellowship, University of Florida, 1991-1992

Co-Principal Investigator: *Early Brain Lesions and Affective Behavior in Children*, funded by National Institute of Mental Health, #R01MH44689-0182, (K.Voeller, PI), 1990-1993.

Co-Investigator: *Retrosplenial Amnesia*, funded by *National Institutes of Health*, (E. Valenstein, PI), 1988-1990.

Co-Principal Investigator: *Disorders of Emotional Memory in Brain Damaged Patients*, funded by National Institutes of Mental Health, (K. Heilman, PI), #RO1MH40214, 1986-1989, \$270,000.

Co-Investigator: *Neglect in Animals and Man*, funded by Medical Research Service of Veterans Administration, #114304813. (Heilman, PI) 1986-1991.

Principal Investigator: *Disorders of Temporal Memory*, funded by University of Florida *Division of Sponsored Research* Graduate Fellowship, 1986-1987.

Co-Principal Investigator: *Covert Physiological Recognition in Alcoholic Amnesia*, funded by National Institutes of Alcohol Abuse and Alcoholism. #R01-AA06203A, (R. Bauer, PI), 1983-1986, \$220,991.

Principal Investigator: *Lexical Priming in Hemispatial Neglect*, funded by University of Florida *Division of Sponsored Research* Graduate Assistant Fellowship, 1983-1984.

Principal Investigator: *Effects of Hemispace on Visual laterality Tasks*, funded by University of Florida *Division of Sponsored Research*, Faculty Development Award, \$5500, 1981-1982.

Co-Principal Investigator: *Disorders of Affectively Intoned Speech*, funded by National Institutes of Neurologic Disease and Stroke (NINDS), #NS-10408. (K. Heilman, PI), 1981-1985.

Co-Investigator: *Neglect in man, Part II*, Funded by Medical Research Service of Veterans Administration, #114304813. (K. Heilman, PI), 1981-1984.

Principal Investigator: *Hemispace: Relation to laterality of function in man*, Funded by National Institutes of Mental Health, R01-MH34752A . 1981-1985.

SPONSOR OF FUNDED RESEARCH AWARDS TO Junior Faculty, Post-docs, Students

University Scholar Award, *Autonomic Functioning and Apathy in Parkinson's disease*, funded by *University of Florida*, 2008-2009, \$2500, Awarded to Jennifer Goetz (undergrad). (Role: Primary Mentor)

K23 Clinical Training Grant (K23- NS060660) *White Matter and Cognition in Parkinson Disease*, funded by National Institutes of Neurologic Disease and Stroke, 2007-2012, \$608,783;

Awarded to Catherine Price, Ph.D. (Role: Primary Mentor)

Pre-doctoral National Research and Service Award (NRSA, F31NS059142) *Apathy, Neurocognitive functioning and Parkinson's Disease*, funded by National Institutes of Neurologic Disease and Stroke, 2007-2009; Awarded to Lindsey Kirsch-Darrow, M.S. (Role: Primary Mentor)

University Scholar Award, *Social Support as a predictor of DBS surgery outcome in Parkinson's Disease*, funded by *University of Florida*, 2005-2006, \$2500, Awarded to Amanda Fogel, B.S., (Role: Mentor)

Pre-doctoral National Research and Service Award (NRSA, F31), *Parkinson's Disease, Psychophysiology, and the Amygdala*, funded by National Institutes of Neurologic Disease and Stroke, 2005-2007, \$85,000 Awarded to Kim Miller, M.S., (Role: Primary Mentor)

Minority Supplement to *Masked Faces in Parkinson's Disease*, funded by National Institutes of Neurologic Disease and Stroke, 2005-2007, \$98,000. Awarded to Mabel Lopez, Ph.D.(This grant was returned due to change in personal circumstance of Dr. Lopez).

Post-doctoral National Research and Service Award (NRSA, F32), *Predictors of Post-Operative Cognitive Dysfunction in the Elderly*, funded by National Institutes of Aging, 2002-2004, \$85,000. Awarded to Catherine Price, Ph.D. (Role: Primary Mentor)

Pre-doctoral National Research and Service Award (NRSA, F31) to Gregory Selke, *Emotional Reactivity in Conduct Disorder and ADHD*, funded by *National Institute of Mental Health*, 2001-2004, \$60,000, Awarded to Greg Selke, M.S.. (Role: Co-Mentor with E. Fennell, Ph.D.)

University Scholar Award, *Dopamine and working memory in Parkinson's Disease*, funded by University of Florida, 2003-2004, \$2500, Awarded to Harvey Montijo (undergrad); (Role: Primary Mentor)

University Scholar Award, *Expressivity in Parkinson's disease*, funded by *University of Florida*, 2001-2002, \$2500, Awarded to Wendelyn Bosch (undergrad). (Role: Primary Mentor)

University Scholar Award, *Digitizing the Face: Hemiface asymmetries and Gender*; funded by University of Florida, 1999-2000, \$2500, Awarded to Ashish Desai (undergrad); . (Role: Primary Mentor)

Psi Chi Research Award to Jennifer Medina, *Retrieval of emotional memories in temporal lobe epilepsy*. 1st place winner (national level), 1999, \$1000 (Role: Mentor)

Psi Chi Research Award to Christopher Delisle, *MRI volumetric analysis of the amygdala and hippocampus involving verbal memory in Parkinson's disease*. 2nd place winner (national level), 1998, \$500. (Role: Mentor)

Graduate Student Research Award to Charles Richardson, *Impact of Right Hemisphere Damage on Voluntary and Spontaneous Expression of Facial Affect*, funded by University of Florida, 1990-1991, \$12,000. (Role: Mentor)

Under Review

Pre-doctoral National Research and Service Award (NRSA), *Essential Tremor: Paradoxical Spatial Cognition*, submitted 12/08/2007 by Utaka S. Springer, M.S., to NIH (NINDS) anticipated funding 2008-2010 (Role: Primary Mentor.)

PUBLICATIONS

Books

Harrower, M. and Bowers, D. (1987) The Inside Story: Reflections from the Basic Rorschach Types. Erlbaum: New York.

Doty, L., Heilman, K., Stewart, J., Bowers, D., Gonzalez-Rothi, L. (1995) Helping people with Progressive Memory Disorders: A Guide for You and Your Family. University of Florida Memory Disorder Clinic, University of Florida, Gainesville, FL.

Doty, L., Heilman, K., Stewart, J., Bowers, D., Gonzalez-Rothi, L. (2003) Helping people with Progressive Memory Disorders: A Guide for You and Your Family (edition 2). University of Florida Memory Disorder Clinic, University of Florida, Gainesville, FL

Tests

Bowers, D., Blonder, LX, and Heilman, KM (1989) The Florida Affect Battery. Center for Neuropsychological Studies, University of Florida, Gainesville, FL.

Bowers, D., Blonder, LX, and Heilman, KM (2001). The Florida Affect Battery, Manual (revised), Center for Neuropsychological Studies, University of Florida, Gainesville, FL

Peer Reviewed Articles

Levy, C.M. and Bowers, D. (1974) Hemispheric asymmetry of reaction time in a dichotic discrimination task. *Cortex*, 10, 19-25.

Bowers, D. and Heilman, K.M. (1976) Material specific hemispheric arousal. *Neuropsychologia* 14, 123-127.

Heilman, K.M., Bowers, D., Watson, R.T., and Greer, M. (1975). A reaction time study of hypokinesia in Parkinson's disease. *Transactions of the American Neurologic Association*, 100, 1999-2001.

Heilman, K.M., Bowers, D., Watson, R.T., and Greer, M. (1976). Reaction times in Parkinson patients. *Neurology*, 33, 139-140.

Fennell, E., Bowers, D., and Satz, P. (1977). Within and crossmodal reliabilities of two laterality tasks. *Brain and Language*, 4, 63-69.

Fennell, E., Bowers, D., and Satz, P. (1977). Within and crossmodal reliabilities of two laterality tasks, among left handers. *Perceptual and Motor Skills*, 45, 451-456.

Heilman, K., Bowers, D., Rasbury, W., and Ray, R. (1977). Ear asymmetries on a selective attentional task. *Brain and Language*, 4, 390-395.

Fennell, E., Satz, P., Van den Abell, T., Bowers, D., and Thomas, R. (1978). Visuospatial competency, cerebral dominance, and handedness. *Brain and Language*, 5, 206-211.

Bowers, D., Heilman, K.M., Satz, P., and Altman, A. (1978). Simultaneous performance on verbal, nonverbal and motor tasks by right handed adults. *Cortex*, 14, 540-556.

Hines, D., Fennell, E., Bowers, D., and Satz, P. (1980). Left handers show greater test-retest variability in auditory and visual asymmetries. *Brain and Language*, 10, 208-211.

Bowers, D. and Heilman, K. (1980). Material specific hemispheric activation. *Neuropsychologia*, 18, 309-318.

Bowers, D. and Heilman, K. (1980). Pseudoneglect: Effects of hemispace on a tactile line bisection task. *Neuropsychologia*, 18, 491-496.

DeKosky, S., Heilman, K., Valenstein, E., and Bowers, D. (1980) Recognition and discrimination of emotional faces and pictures. *Brain and Language* 9:206-214.

Bowers, D., Heilman, K., and Van den Abell, T. (1981). Hemispace-VHF compatibility, *Neuropsychologia*, 19, 757-765.

Heilman, K., Bowers, D., and Watson, R.T. (1983). Performance on a hemispatial pointing task. *Neurology*, 33, 661-664.

Heilman, K., Bowers, D., and Watson, R.T. (1984). Pseudoneglect in a patient with a partial callosal disconnection. *Brain*, 107, 519-532.

Heilman, K., Bowers, D., Speedie, L., and Coslett, B. (1984). Comprehension of emotional and nonemotional prosody. *Neurology*, 34, 917-921.

Bowers, D. and Heilman, K.M. (1984). Dissociation between the processing of affective and nonaffective faces: a case study. *Journal of Clinical Neuropsychology*, 6, 367-394.

Bowers, D., Bauer, R., Coslett, B., and Heilman, K. (1985). Processing of faces by patients with unilateral hemisphere lesions. I. Dissociation between judgments of facial affect and facial identity. *Brain & Cognition*, 4, 258-272.

Heilman, K., Bowers, D., Coslett, B., Whalen, H., and Watson, R.T. (1985). Prolonged reaction times for leftward movements in patients with right hemisphere lesions and neglect: directional hypokinesia. *Neurology*, 35, 855-860.

Watson, R., Heilman, K., and Bowers, D. (1985). Magnetic resonance imaging (MRI, NMR) seen in a case of callosal apraxia and pseudoneglect. *Brain*, 108, 535-536.

Heilman, K., Bowers, D., Valenstein, E., and Watson, R. (1986). The right hemisphere: neuropsychological functions. *Journal of Neurosurgery*, 64, 693-704.

Meador, K., Watson, R., Bowers, D., and Heilman, K. (1986). Hypometria with hemispatial and limb motor neglect. *Brain*, 109, 293-306.

Bowers, D., Coslett, B., Bauer, R., Speedie, L., and Heilman, K.M. (1987). Comprehension of emotional prosody following unilateral brain damage: Processing versus distraction defects. *Neuropsychologia*, 25,317-328.

Meador, K.J, Hammond, E.J., Loring, D.W., Feldman, D., Bowers, D., and Heilman, K.M. (1987), Auditory P3 correlates of phonemic and semantic processing. *International Journal of Neuroscience*, 35, 175-179.

Meador, K., Hammond, E., Loring, D., Allen, M., Bowers, D., and Heilman, K. (1987). Cognitive evoked potentials and disorders of recent memory. *Neurology*, 37, 526-529.

- Meador, K., Loring, D., Bowers, D., and Heilman, K. (1987). Remote memory and neglect syndrome. *Neurology*, *37*, 522-526.
- Coslett, B., Bowers, D., and Heilman, K. (1987). Reduction in cerebral activation after right hemisphere stroke. *Neurology*, *37*, 957-962.
- Valenstein, E., Bowers, D., Verfaellie, M., Heilman, K., Day, A., and Watson, R. (1987). Retrosplenial amnesia. *Brain*, *110*, 1631-1646.
- Bowers, D., Verfaellie, M., Valenstein, E., and Heilman, K. (1988). Impaired acquisition of temporal information in retrosplenial amnesia. *Brain and Cognition*, *8*, 47-66.
- Verfaellie, M., Bowers, D., and Heilman, K. (1988). Hemispheric asymmetries in mediating intention, but not selective attention. *Neuropsychologia*, *26*, 521-531.
- Verfaellie, M., Bowers, D., and Heilman, K. (1988). Attentional factors in the occurrence of the stimulus-response compatibility effect. *Neuropsychologia*, *26*, 435-444.
- Heilman, K.M., Bowers, D., and Shelton, P. (1990). Attention to near and far space: The third trichotomy. *Behavioral and Brain Sciences*, *13*, 552.
- Heilman, K.M., Bowers, D., Watson, R., Day, A., Valenstein, E., Hammond, E., and Duara, R. (1990). Frontal hypermetabolism and thalamic hypometabolism in a patient with abnormal orienting and retrosplenial amnesia. *Neuropsychologia*, *28*, 161-170.
- Coslett, B., Bowers, D., Fitzpatrick, E., Haws, B., and Heilman, K. (1990). Directional hypokinesia and hemispatial inattention in neglect. *Brain*, *113*, 475-486.
- Shelton, P., Bowers, D., and Heilman, K. (1990). Peripersonal and vertical neglect. *Brain*, *113*, 191-205.
- Speedie, L., Brake, N., Folstein, S., Bowers, D., Heilman, K. (1991). Comprehension of prosody in Huntington's disease. *Journal of Neurology, Neurosurgery, & Psychiatry*, *53*, 607-610.
- Martin, R., Meador, K., Loring, D., Bowers, D., and Heilman, K. (1990). The contribution of an imaginal code to verbal memory. *Cortex*, *26*, 443-450.
- Verfaellie, M., Bauer, R., and Bowers, D. (1991). Autonomic and behavioral evidence of implicit memory in amnesia. *Brain & Cognition*, *15*, 10-25.
- Cimino, C., Verfaellie, M., Bowers, D., and Heilman, K. (1991). Emotional autobiographical memory in right hemisphere damaged patients. *Brain & Cognition*, *15*, 106-118.
- Coslett, B., Bowers, D., Verfaellie, M., and Heilman, K. (1991). Frontal verbal amnesia: Phonologic amnesia. *Archives of Neurology*, *48*, 949-955.
- Blonder, L., Bowers, D., and Heilman, K. (1991). The role of the right hemisphere in emotional communication. *Brain*, *114*, 1115-1127.
- Bowers, D., Blonder, L., Heilman, K., and Feinberg, T. (1991). Differential impact of right and left hemisphere lesions on facial emotion versus object imagery. *Brain*, *114*, 2593-2609.

Morris, M., Bowers, D., Chatterjee, A., and Heilman, K. (1992). Amnesia following a discrete lesion of the basal forebrain. *Brain*, *115*, 1827-1847.

Blonder, L., Burns, A., Bowers, D., Moore, R., and Heilman, K. (1993). Right hemisphere facial expressivity during natural conversation. *Brain and Cognition*, *21*, 44-56.

Chatterjee, A., Morris, M., Bowers, D., Doty, L., Williams, D.J., and Heilman, K. (1993). Cholinergic treatment of amnesia due to a basal forebrain lesion: theoretical issues. *Journal of Neurology, Neurosurgery, & Psychiatry*, *56*, 1282-1289.

Bowers, D., Bauer, R.M., and Heilman, K. (1993). The nonverbal affect lexicon: Theoretical perspectives from neuropsychological studies of affect perception. *Neuropsychology*, *7*(4), 433-444.

Doty, L., Heilman, K.M., Bowers, D., and Gonzalez-Rothi, L. (1993). Case management of Alzheimer's disease. *Journal of Case Management*, *4*, 129-135.

Shelton, P., Bowers, D., Duara, R.J., and Heilman, K.M. (1994). Apperceptive visual agnosia. *Brain & Cognition*, *25*, 1-23.

Blonder, L.X., Burns, A., Bowers, D., Moore, R., and Heilman, K.M. (1995). Spontaneous gestures following right hemisphere infarct. *Neuropsychologia*, *33*, 211-218.

Jacobs, D., Williams, D.J., Shuren, J., Bowers, D., and Heilman, K. (1995). Anomia in a patient with a basal forebrain lesion. *Neuropsychiatry, Neuropsychology, and Behavioral Neurology*, *8*, 200-207.

Heilman, K. & Bowers, D. (1995). Reply to Warrington-Rudge comment on "Apperceptive Visual Agnosia: A case study. *Brain & Cognition*, *28*, 178-179.

White, T., Bauer, R., Bowers, D., and Kessler, H. (1995). Recall of three words after five minutes: its relationship to performance on neuropsychology memory tests. *Applied Neuropsychology*, *2*, 130-138.

Jacobs, D., Shuren, J., Bowers, D., and Heilman, K. (1996). Emotional perception, imagery, and production in Parkinson's disease. *Neurology*, *45*, 1696-1702.

Kegl, J., Gilmore, R., Leonard, C., Bowers, D., Fennell, E., Roper, S., Trowbridge, P. Heilman, K., and Poizner, H. (1996). Lateralization and intrahemispheric localization studies of a familiarly left-handed deaf, epileptic signer of American sign language. *Brain and Cognition*, *32*, 335-338.

Jacobs, D., Shuren, J., Gold, M., Adair, J.C., Bowers, D., Williamson, D.G., Heilman, K.M. (1997). Physostigmine pharmacotherapy for anomia. *Neurocase*, *2*, 83-91.

Ochipa, C., Rapsack, S., Maher, L., Gonzalez-Rothi, L., Bowers, D., and Heilman, K. (1997). Selective deficit of praxis imagery in ideomotor apraxia. *Neurology*, *49*, 474-488.

Young, M., Triggs, W., Bowers, D., and Greer, M. (1997). Stereotactic pallidotomy lengthens the transcranial magnetic cortical stimulation silent period in Parkinson's disease. *Neurology*, *49*, 1278-1283.

- Delisle, C., Eckert, M., Lucas, M., and Bowers, D. (1999). MRI volumetric analysis of the amygdala and hippocampus in Parkinson's disease. *The Psi Chi Journal of Undergraduate Research*, 3, 44-46.
- Triggs, W.J., McCoy, K., Greer, R., Rossi, F., Bowers, D., Kortenkamp, S., Nadeau, S., Heilman, K., and Goodman, W.K. (1999). Effects of transcranial magnetic stimulation on depressed mood, cognition, and corticomotor thresholds. *Biological Psychiatry*, 45, 1440-1446.
- Slomine, B., Bowers, D., and Heilman, K. (2000). Dissociation between autonomic responding and verbal reports in right and left hemisphere brain damage during anticipatory anxiety. *J. Neuropsychiatry, Neuropsychology, & Behavioral Neurology*, 12, 143-148.
- Richardson, C., Bowers, D., Bauer, R., Heilman, K.,M., and Leonard, C.M. (2000). Digitizing the moving face during dynamic expressions of emotion. *Neuropsychologia*, 38, 1026-1037.
- Crucian, G., Barrett, A., Schwarz, R., Bowers, D., Triggs, W., Friedman, W., and Heilman, K. (2000). Cognitive and vestibulo-proprioceptive components of spatial ability in Parkinson's disease. *Neuropsychologia*, 38, 757-767.
- Gokcay, D., Bowers, D., Richardson, C., and Desai, A. (2000) Use of local entropy changes as a measure for identification of facial expressions. *Journal IEEE: Proceedings of ICASSP International Conference on Acoustics, Speech, and Signal Processing*,
- Crucian, G., Huan, L., Barrett, A., Schwartz, R., Cibula, J., Anderson, J., Triggs, W., Bowers, D., Friedman, W., Greer, M., and Heilman, K. (2001). Emotional conversations in Parkinson's disease. *Neurology*, 56, 159-165.
- Crucian, G., Hughes, J., Barrett, A., Keillor, J., Williamson, D.J., Bauer, R., Bowers, D., and Heilman, K. (2001). Emotional and physiological responses to false feedback. *Cortex*, 36, 623-47.
- McDonald, C., Crosson, B., Valenstein, E., and Bowers, D. (2001). Verbal encoding deficits in a patient with retrosplenial amnesia. *Neurocase*, 7, 407-17.
- Nadeau, S., McCoy, K, Crucian, G, Greer, R, Rossi, F, Bowers, D., Goodman, W, Heilman, K, and Triggs, W. (2002) Cerebral blood flow changes in depressed patients after treatment with repetitive transcranial magnetic stimulation: evidence of individual variability. *Neuropsychiatry, Neuropsychology and Behavioral Neurology*, 15, 159-175.
- Crucian, G., Barrett, A., Burks, D., Riestra, A., Roth, H., Schwartz, Triggs, W., Bowers, D., Friedman, W., Greer, M., and Heilman, K. (2003). Mental object rotation in Parkinson's disease. *Journal of the International Neuropsychology Society*, 9, 1078-1087.
- Pedraza, O. Bowers, D., and Gilmore, R. (2004). Meta-analysis of MRI- based volumetric asymmetry of the hippocampus and amygdala in >1500 normal adults. *Journal of International Neuropsychology Society*, 10, 664-78.
- Okun, M., Bowers, D., Springer, U., Malone, D., Rezai, A., Buttin, B., Heilman, K., Greenberg, B., Rasmussen, S., Shapira, A., Foote, K., Goodman, W. (2004) What's in a smile? Stimulation induced smiling and affective response. *Neurocase*, 10, 271-279.
- Leritz, B., Loftis, C., Crucian, G., Friedman, W. and Bowers, D. (2004). Self awareness deficits in Parkinson's disease. *The Clinical Neuropsychologist*, 18, 352-361.

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McDonald, C., Crosson, B., Bowers, D. (2000). Semantic encoding, memory and retrosplenial amnesia. International Neuropsychology Society, February 2000.

Gokcay, D., Bowers, D., Richardson, C., Desai, A. (June 2000) Use of local entropy changes as a measure for identification of facial expressions. ICASSP International Conference on Acoustics, Speech, and Signal Processing, Istanbul.

Desai, A., Bowers, D., Gokcay, D., Richardson, C. (2000). Digitizing the Face: Emotion asymmetries and Gender. Southeastern Psychological Association, New Orleans.

Pedraza, O., Bowers, D., Gilmore, R., Hamby, M. (2000) Hemispheric asymmetry of amygdala volumes: A meta-analysis. American Psychological Society, Miami, FL.

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Selke, G., Fennell, E., Bowers, D. (2001). Emotional reactivity and startle responses in children. Society for Neuroscience, November 2001, San Diego

Bowers, D., Gilmore, R., Selke, G., Eckert, M. (2001). Memory, emotion, and hippocampal/amygdalar volumetrics in patients with TLE. American Epilepsy Society, Philadelphia, December 2001.

Selke, G., Fennell, E., Dikel, T., Bosch, W., Harrell, D., and Bowers, D. (2002, February). *Support for a developmental shift in emotional reactivity in male children*. Poster presented at 30th annual meeting of International Neuropsychology Society, Toronto, CA. (Abstract: Journal of International Neuropsychology Society, 8, 233).

Belanger, H., and Bowers, D. (2002, February). *Affective verbal memory following unilateral temporal lobectomy*. Poster presented at 30th annual meeting of International Neuropsychology Society, Toronto, CA. (Abstract: Journal of International Neuropsychology Society, 8, 235).

Leritz, E., Shenal, B., Crucian, G., and Bowers, D. (2002, February). *Differential effects of pallidotomy on depression and anxiety in Parkinson's disease*. Poster presented at 30th annual meeting of International Neuropsychology Society, Toronto, CA. (Abstract: Journal of International Neuropsychology Society, 8, 203).

Triggs, W., Bowers, D., Gokcay, D. (2002, April). *Lateralized asymmetry of facial motor evoked potential*. Poster presented at 54th annual meeting of American Academy of Neurology, Denver, CO. (Abstract: Neurology, 58, 268).

Bowers, D., Parkinson, B., Gober, T., Bauer, M.C., White, E., and Bongiolatti, S. (2002, November) *Two faces of emotion: patterns of startle modulation depend on facial expressions and on knowledge of evil*. Poster presented at 32nd annual meeting of Society for Neuroscience, Orlando, FL. (Abstract: Neuroscience Abstracts, 8, 780.9).

Pedraza, O. Bowers, D., Gilmore, R., and Eisenschenk, S. (2002, November). *A meta-analysis of MRI-based volumetric asymmetry of the hippocampus and amygdala in >1500 normal adults*. Poster presented at 32nd annual meeting of Society for Neuroscience, Orlando, FL. (Abstract: Neuroscience Abstracts, 8, 872.7).

Parkinson, B., Bongiolatti, S., Eisenschenk, S., Gilmore, R., and Bowers, D. (2003, February). *Diurnal mood variability following anterior temporal lobectomy*. Poster presented at 31st annual meeting of International Neuropsychology Society, Honolulu, HI. (Abstract: Journal of International Neuropsychology Society, 9, 277).

Bowers, D., Bosch, W., Peden, C., Triggs, W., and Gokcay, D. (2003, February). *Faces of emotion in Parkinson's disease: Microexpressivity and bradykinesia during voluntary emotions*. Poster presented at 31st annual meeting of International Neuropsychology Society, Honolulu, HI. (Abstract: Journal of International Neuropsychology Society, 9, 212).

Bowers, D., and Leritz, B. (2003, February). *Awareness deficits in Parkinson's disease*. Poster presented at 31st annual meeting of International Neuropsychology Society, Honolulu, HI.

(Abstract: Journal of International Neuropsychology Society, 9, 313).

Pedraza, O., Bongiolatti, S., Bosch, W., Gokcay, D., and Bowers, D. (2003, February) *Static vs. dynamic measures of facial expression in Parkinson's disease*. Poster presented at 31st annual meeting of International Neuropsychology Society, Honolulu, HI. (Abstract: Journal of International Neuropsychology Society, 9, 212).

Hamby, M., Desai, A., Gokcay, D., and Bowers, D. (2003, February). *Digitizing the moving face during non-emotional expressions*. Poster presented at 31st annual meeting of International Neuropsychology Society, Honolulu, HI. (Abstract: Journal of International Neuropsychology Society, 9, 265).

Selke, G., McDonald, C., and Bowers, D. (2003, February) *Retrosplenial contributions to verbal emotional processing*. International Neuropsychology Society, Honolulu, HI. (Abstract: Journal of International Neuropsychology Society, 9, 186).

Rogish, M., Bowers, D., Bauer, R., and Gilmore, R. (2003, February) *The differential contribution of perceived social support and surgical outcome on depression in post-surgical ATL epilepsy patients*. Poster presented at 31st annual meeting of International Neuropsychology Society, Honolulu, HI. (Abstract: Journal of International Neuropsychology Society, 9, 277).

Pedraza, O., Springer, S., Gober, T., Okun, M., and Bowers, D. (2003, October) *The effect of unilateral pallidotomy on proactive interference and verbal learning*. Paper presented at 17th Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders, San Francisco, CA. (Abstract: Movement Disorders, 18, 1087).

Seignorel, P., Miller, K., Okun, M., and Bowers, D. (2003, October). *Startle eyeblink in psychogenic movement disorder*. Poster presented at Psychogenic Movement Disorder Workshop. Movement Disorders Society, Atlanta, GA.

Miller, K., Kortenkamp, S., Rogish, M., Gilmore, R., Roper, S., and Bowers, D. (2003, November) *Odor preference deficits following right, but not left temporal lobectomy*. Poster presented at 33rd annual meeting of Society for Neuroscience, New Orleans, LA

Bowers, D., Bosch, W., Gober, T., Montijo, H., Miller, K., Springer, U., Foote, K., and Okun, M. (2004, February). *Startling facts about emotion in Parkinson's disease*. Poster presented at 32nd annual meeting of International Neuropsychology Society, Baltimore, MD. (Abstract: Journal of International Neuropsychological Society, 10, S1, 69).

Springer, U., Bowers, D., Shapira, N., Goodman, W., Heilman, K., Foote, K., and Okun, M. (2004, February). *Long term habituation of stimulation-induced smiling in a patient with deep brain stimulation*. Poster presented at 32nd annual meeting of International Neuropsychology Society, Baltimore, MD. (Abstract: Journal of International Neuropsychological Society, 10, S1, 155-56).

Crucian, G., Burks, D., Mielke, J., Shenal, B., Rhodes, R., Grande, L., Womack, K., Riestra, A., Okun, M., Bowers, D., and Heilman, K. (2004, February) *Memory in Parkinson's disease: a step-wise analysis*. Poster presented at 32nd annual meeting of International Neuropsychology Society, Baltimore, MD. (Abstract: Journal of International Neuropsychological Society, 10, S1, 66).

Miller, K., Bowers, D., Bosch, W., Gober, T., Montijo, H., Springer, S., Foote, K., and Okun, M.

(2004, February). *Reduced fear-potentiated startle in medicated Parkinson's disease patients*. Poster presented at 32nd annual meeting of International Neuropsychology Society, Baltimore, MD. (Abstract: Journal of International Neuropsychological Society, 10, S1, 70).

Bowers, D., Kirsch, L., Springer, U., Miller, K., Crucian, G., Foote, K., and Okun, M. (2004, April). *Psychophysiologic blunting in Parkinson's Disease*. Poster presented at 56th Annual Meeting of the American Academy of Neurology, San Francisco, CA. (Abstract: Neurology, 62, 421).

Okun, M., Bowers, D., Springer, U., Shapira, A., Malone, D., Rezai, A., Nuffin, B., Heilman, K., Morecraft, R., Rasmussen, S., Greenberg, B., Foote, K., and Goodman, W. (2004, April). *What's in a smile? Intra-operative observations of contralateral smiles induced by deep brain stimulation*. Poster presented at 56th Annual Meeting of the American Academy of Neurology, San Francisco, CA. (Abstract: Neurology, 62, 392).

Pedraza, O., Lucas, J., Smith, G., Willis, F., Graff-Radford, N., Petersen, R., Ferman, T., Bowers, D., and Ivnik, R. (2004, July). *Factor validity and cross-cultural equivalence of a Core Neuropsychological Test Battery in elderly African Americans*. Poster presented at 9th International Conference on Alzheimer's Disease and Related Disorders, Philadelphia PA. (abstract: Neurobiology of Aging, 25: S134-S134 Suppl. 2, Jul 2004).

Fernandez, H., Crucian, G., Jacobson, C., Freeman, K., Patel, N., Munson, Bowers, D., and Okun, M. (2004, October). *Cognitive impairment parallels motor progression in Parkinson's disease*. Poster presented at the 18th Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders. (Abstract: Movement Disorders, 19, 1125-1126).

Shapira, A., Wint, D., Bowers, D., Springer, U., Fernandez, H., Goodman, W., Foote, K., Okun, M. (2004, October). *Fear and panic induced by deep brain stimulation*. Poster presented at the 18th Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders. (Abstract: Movement Disorders, 19, 1130).

Willard, K., Licht, B., Gilmore, R., Licht, F., Sackellares, J.C., Eisenschenk, S., Bowers, D., Hyson, L., and Kirsch, L. (2004, December). *Affect in epilepsy patients undergoing video-EEG monitoring: Retrospective versus momentary assessment and temporal relation to seizures*. Poster presented at the 58th annual meeting of the American Epilepsy Society, New Orleans, LA. (Abstract: Epilepsia).

Shapira, A., Wint, D., Bowers, D., Springer, U., Fernandez, H., Goodman, W., Foote, K., Okun, M. (2004). *Fear and panic induced by deep brain stimulation*.

Bowers, D., Parkinson, B., Gilmore, R., Roper, S., and Eisenschenk, S. *Diurnal mood variability following right and left temporal lobectomy*. (2004, December). Poster presented at the 58th annual meeting of the American Epilepsy Society, New Orleans, LA. (Abstract: Epilepsia

Springer, U., Norton, J., Rosas, A., McGetrick, J., and Bowers, D. (2005, February). *Modulation of emotional reactivity via semantic knowledge of famous faces*. Presented at 33rd annual meeting of the International Neuropsychology Society, St. Louis, MO. (Abstract: Journal of International Neuropsychological Society, 11, S1, 35).

Pedraza, O., Bowers, D., Marsiske, M., Fennell, E., and Bauer, R. (2005, February). *Relationship between intellectual ability and malingering on the LMT, WMT, and CARB*. Poster

presented at 33rd annual meeting of the International Neuropsychology Society, St. Louis, MO. (Abstract: Journal of International Neuropsychological Society, 11, S1, 83).

Pedraza, O., Bowers, D., Bauer, R, Fennell, E., and Marsiske, M. (2005, February). *Classification accuracy of malingering measures in a yoked control group design*. Poster presented at 33rd annual meeting of the International Neuropsychology Society, St. Louis, MO. (Abstract: Journal of International Neuropsychological Society, 11, S1, 85).

Bowers, D., Gokcay, D., Springer, U., Ghacibeh, G., Triggs, W. (2005, February). *A cortico-motor hypothesis for face expression asymmetries: converging data from TMS and face digitizing*. Paper presented at 33rd annual meeting of the International Neuropsychology Society, St. Louis, MO. (Abstract: Journal of International Neuropsychological Society, 11, S1, 104)

Triggs, W., Ghacibeh, G., *Springer, U., and Bowers, D. (2005, February). *Lateralized asymmetry in motor control over the lower face: A TMS-MEP study*. Paper presented at 33rd annual meeting of the International Neuropsychology Society, St. Louis, MO. (Abstract: Journal of International Neuropsychological Society, 11, S1, 105).

Kirsch, L., Fernandez, H., Okun, M., Romrell, J., Jacobsen, C., and Bowers, D. (2005, February). *Examining apathy and depression in Parkinson's disease*. Poster presented at 33rd annual meeting of the International Neuropsychology Society, St. Louis, MO. (Abstract: Journal of International Neuropsychological Society, 11, S1, 160).

Price, C., Eisenschenk, S., Gilmore, R., and Bowers, D. (2005, February). *Circadian cortisol rhythms after right or left temporal lobectomy*. Poster presented at 33rd annual meeting of the International Neuropsychology Society, St. Louis, MO. (Abstract: Journal of International Neuropsychological Society, 11, S1, 57).

Miller, K., Bowers, D., Price, C., Montijo, H., Springer, U., Kirsch, L., Foote, K., and Okun, M. (2005, February). *Clinical utility of the "N-back" test in detection of working memory impairment in Parkinson's Disease*. Poster presented at 33rd annual meeting of the International Neuropsychology Society, St. Louis, MO. (Abstract: Journal of International Neuropsychological Society, 11, S1, 163).

Kirsch, L., Fernandez, H., Okun, M., Romrell, J., Jacobsen, C., and Bowers, D. (2005, April). *Apathy and depression in patients with Parkinson's disease or Dystonia*. Poster presented at the 57th annual meeting of the American Academy of Neurology, Miami, FL (Abstract: Neurology, 64 (6), Suppl. 1, March 22, 2005). Selected by AAN as a meeting highlight

Okun, M., Knight, W., Shapira, A., Bowers, D., Springer, U., Martin, P., Munson, S., Fernandez, H., Mann, G., Goodman, W., & Foote, K. (2005, April). *Benefits and side effects from acute blinded stimulation of the anterior limb of the internal capsule and the nucleus accumbens*. Presented at 57th annual meeting of the American Academy of Neurology, Miami, FL. Okun, M., (Abstract: Neurology, 64 (6), A77-A77 Suppl. 1, Mar 22 2005).

De Zayas, M., Price, C., Miler, K., Dickey, D., & Bowers, D. (2005, April). *Decline in working memory for verbal material over 3 age groups*. Poster presented at Southeastern Psychological Association, Atlanta, GA.

Wood, M., Price, C., Montijo, H., Bowers, D., Leonard, C., Schmalfuss, I. (2005, July). *Volumetric measurement of the entorhinal cortex: A reliability analysis*. Poster presented at

Alzheimer's Association International Congress on the Prevention of Dementia: Early Diagnosis and Intervention. Washington, D.C.

Miller, K., Bowers, D., Fernandez, H., Foote, K., Okun, M.S. (2005, October) *Comparison of mood profiles across Parkinson's disease, Essential Tremor, and dystonia Patients*. Poster presented at 19th Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders (Abstract: [Movement Disorders](#)),

Kellison, I., Price, C., Dickey, D., Shugarman, I, Bowers, D., Gearen, P., & Monk, T. (2005, October). *Influence of smoking history on cognitive decline after orthopedic surgery*. Poster presented at National Academy of Neuropsychology, Tampa, FL (Abstract: [Archives of Clinical Neuropsychology](#), 20 (7): 860, October 2005).

Springer, U.S., McGetrick J., Rosas, A., & Bowers, D. (2006, February). *Differences in psychophysiological reactivity while viewing static vs dynamic facial affect*. Poster presented at 34th annual meeting of the International Neuropsychology Society, Boston, MA. (Abstract: [Journal of International Neuropsychological Society](#), 12, S1, 227).

Mikos, A., Lopez, M., Price, C., & Bowers, D. (2006, February). *Memory for emotional words in mild cognitive impairment*. Poster presented at 34th annual meeting of the International Neuropsychology Society, Boston, MA. (Abstract: [Journal of International Neuropsychological Society](#), 12, S1, 120).

Miller, K.M., Bowers D., Fernandez H.H., Jacobson, C., Foote, K.D., & Okun, M.S. (2006, February) *Patterns of depressed mood symptoms in Parkinson's disease, dystonia, and essential tremor*. Poster presented at 34th annual meeting of the International Neuropsychology Society, Boston, MA. (Abstract: [Journal of International Neuropsychological Society](#), 12, S1, 236).

Kellison, I., Sapienza, C., Springer, U., Okun, M., Bowers, D. (2006, February). *Improved facial expressivity in a patient with idiopathic parkinson's disease after expiratory muscle strength treatment*. Poster presented at 34th annual meeting of the International Neuropsychology Society, Boston, MA. (Abstract: [Journal of International Neuropsychological Society](#), 12, S1, 114).

Kirsch-Darrow, L., Marsiske, M., Mikos, A., Fernandez, H., Okun, M., Bowers, D. (2006, February). *Apathy: An important "factor" in Parkinson's disease*. Poster presented at 34th annual meeting of the International Neuropsychology Society, Boston, MA. (Abstract: [Journal of International Neuropsychological Society](#), 12, S1, 114).

Kirsch-Darrow, L., Kellison, I., Mikos, A., & Bowers, D. (2006, February). *Apathy in the absence of frontal cognitive deficits: a case study*. Poster presented at 34th annual meeting of the International Neuropsychology Society, Boston, MA. (Abstract: [Journal of International Neuropsychological Society](#), 12, S1, 230).

Selke, G., Mikos, A., Springer, U., Goodman, W., Okun, W., Bowers, D. (2006, February). *Enhanced startle modulation to contamination pictures in Obsessive Compulsive Disorder: a case study*. Poster presented at 34th annual meeting of the International Neuropsychology Society, Boston, MA. (Abstract: [Journal of International Neuropsychological Society](#), 12, S1, 230)

Price, C. C., Bowers, D., Schmalfuss, I., Libon, D., Heilman, Dickey, D., Gearen, P., K., Monk, T. (2006, February). . White matter abnormalities and post-operative cognitive dysfunction in

healthy older adults. Paper presented at: Symposium on Vascular Disease in Demented and nondemented patients: the Paradigm of Vascular Load, 34th annual meeting of the International Neuropsychology Society, Boston, MA (Abstract: Journal of the International Neuropsychological Society, 12, S, p .265).

Fernandez, H., Williams, L., Seignourel, P., Crucian, G., Bowers, D., Okun, M. (2006, April). *Laterality, location, type and severity of motor dysfunction may predict cognitive decline in Parkinson's Disease*. Poster presented at 58th annual meeting of the American Academy of Neurology, San Diego, CA.

Pavon, J.M., Thomas, P.C., Bowers, D., Lopez, M., Crucian, G.P., Okun, M.S. (2006). *Neuropsychological function and age impact extended hospital stay following DBS*. Poster presented at ??? (Abstract: Movement Disorders, 21: S119 Suppl 13, 2006).

Wood, M., Price, C., Montijo, H., Bowers, D., Leonard, C., Schmalfuss, I. (2006). *Volumetric measurement of the entorhinal cortex: A reliability and validity analysis*. Poster presented at symposium of University Scholars Program. Gainesville, FL.

Mikos, A., Miller, M., Gadwal, S., Norton, J., Okun, M., Bowers, D. (2006, August). *Reduced emotional modulation of startle eyeblink in Essential Tremor*. American Psychological Association, New Orleans, LA. (Abstract: The Clinical Neuropsychologist, 20: 598-598, Sept 2006).

Springer, U., Chang Y., Graf-Radford, J., Jacobson, C. Crucian, G., Okun, M., Bowers, D. (2006, August). *Neuropsychological profile of pre-surgical Essential Tremor*. American Psychological Association, New Orleans, LA. (Abstract: The Clinical Neuropsychologist, 20: 599-599, Sept 2006).

Kellison, I., Kirsch-Darrow, L., Lopez, M., Crucian, G., Fernandez, H., Okun, M., Bowers, D. (2006, August). *Apathy and executive function in non-demented Parkinson's Disease*. American Psychological Association, New Orleans, LA. (Abstract: The Clinical Neuropsychologist, 20: 597-597, Sept 2006).

Okun, M., Mikos, A., Gadwal, S., Norton, J., Fernandez, H., Rodrigues, R., & Bowers, D. (2006, October). *Enhanced startle with dopaminergic administration in subjects with Parkinson disease*. International Parkinson Congress, Kyoto, Japan. (Abstract: Movement Disorders, 21: 2590, P949, Supp 15, 2006).

Kirsch, L., Bowers, D., Fernandez, H., Rodriguez, R., Okun, M.S. (2006, October) *Relationship between apathy symptoms and levodopa dosage in Parkinson's disease*. International Parkinson Congress, Kyoto, Japan.

Okun, M.S., Roy, A., Garvan, C., Fernandez, H., Rodriguez, R.L., Loring, D., Meador, K. (2006). *Does perceived cognitive dysfunction on the PDQ-39 correlate with cognitive dysfunction in Parkinson's disease*. Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders. Chicago, Ill (Abstract: Movement Disorders, 21(9): 1545-1545, 2006).

Seignourel, P., Okun, M., Miller, K., Kellison, I., Bauer, R., Fernandez, H., Rodriguez, R., Repetto, M., Bowers, D. (2006, October). *Abnormal affective startle modulation in psychogenic movement disorders*. Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders. Chicago, Ill. (Abstract: Movement Disorders, 21 (9), 1549-1549, September 2006).

Halkias, I., Krishnan, M., Seignourel, P., Bowers, D., Rosado, C.A., Fernandez, H.H., Rodriguez,

R.L., Skidmore, F., Foote, K.D., & Okun, M.S. (2006, October). The Florida Surgical Questionnaire for Parkinson's disease (FLASQ-PD): A potential triage tool for cognitive dysfunction in DBS candidates. Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders. Chicago, Ill (Abstract, Movement Disorders, 21 (9), 1553, Sept 2006).

Anderson, A.M., Skoblar, B.M., White, T., Jacobson, C., Fernandez, H., Foote, K.D., Okun, M.S., Bowers, D. (2007, February). *Selection of normative reference data influences clinical considerations*. 35th Annual Meeting of the International Neuropsychological Society, Portland, OR.

Mikos, A., Wood, M., Price, C., & Bowers, D. (2007, February). *Aging, emotional memory, and the hippocampus*. 35th Annual Meeting of the International Neuropsychological Society, Portland, OR.

Springer, U., Conwell, E., Norton, J., Rosas, A., & Bowers, D. (2007, February). *Investigating facial movement asymmetries in the spontaneous expression of positive and negative emotion*, 35th Annual Meeting of the International Neuropsychological Society. Portland, OR

Kellison, I., Price, C., Woods, M., & Bowers, D. (2007, February). *Mild cognitive impairment: Memory, cortisol, and hippocampal volumetrics*. 35th Annual Meeting of the International Neuropsychological Society. Portland, OR

Kirsch, L., Okun, M., Fernandez, H., & Bowers (2007, February) *Parkinson's disease: Relationship between apathy and dopaminergic medication*. 35th Annual Meeting of the International Neuropsychological Society. Portland, OR

Skoblar, B., Crucian, G., Anderson, A., Foster, P., Drago, Bowers, D., Okun, M., Heilman, K. (2007, February). *Neuropsychological prediction of memory function in Parkinson's disease*. 35th Annual Meeting of the International Neuropsychological Society. Portland, OR

Kellison, I., Kirsch-Darrow, L., Fernandez, H., Okun, M.S., Bowers, D. (2007, April). *Apathy in non-demented Parkinson Disease: Relationship to executive dysfunction?* American Academy of Neurology, Boston MA. (Selected as AAN Highlights)

Mikos, A., Skoblar, B., Kellison, I., Nizenson, A., Springer, U., Fernandez, H., Okun, M.S., & Bowers, D. (2007, June). *Behind the masked face: Emotion self-perception and apathy in PD patients*. International Parkinson Congress, Istanbul Turkey.

Cooper CA, Wood MF, Mikos AE, Kirsch L, Jacobson C, Okun MS, Rodriguez RL, Bowers D, Fernandez HH (2007, September). *Laterality of Motor Impairment Could Play a Role in Cognitive Function in Parkinson Disease*. Presented at the Annual meeting of the Florida Society of Neurology, Orlando, FL.

Mikos AE, Cooper CA, Wood MF, Kirsch L, Jacobson C, Fernandez HH, Okun, MS, Rodriguez RL, Bowers D. (2007, September). *Axial versus Appendicular Motor Impairments are Associated with Different Cognitive Deficits in Parkinson Disease*. Presented at the Annual meeting of the Florida Society of Neurology, Orlando, FL.

Skoblar, B.M., Mikos, A.E., Nizenson, A., Kirsch-Darrow, L., Okun, M.S., Fernandez, H.H., Bowers, D. (2007, October). *The contribution of apathy to global cognitive status in Parkinson's disease*. Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders, Washington, DC.

- Kirsh-Darrow, L., Zahodne, L., Skoblar, B., Hass, C., Jacobson, C., Okun, M.S., Fernandez, H.H., Bowers, D. (2007, October). *Assessing apathy with the UPDRS: Comparison with the Apathy Evaluation Scale*. Annual Symposium on Etiology, Pathogenesis, and Treatment of Parkinson's Disease and Other Movement Disorders, Washington, DC.
- Okun, M.S., Fernandez, H.H., Bowers, D., Wu, S., Suelter, M., Jacobson, C., Rodriguez, R.L., Foote, K.D. (2007, October). *The cognition and mood in Parkinson Disease (CoMPare) DBS Trial*. American Neurologic Association, Washington, DC.
- Kaufman, D., Perlstein, W.M., Okun, M.S., Fernandez, H.F., Bowers, D. (2007, October). *Apathy, emotional symptoms, and P3 response in Parkinson's disease*. Society for Psychophysiological Research
- Kaufman, D., Perlstein, W.M., Bishop, M., & Bowers, D. (2007, October). *Age-related changes in P3 response and executive functioning*. Society for Psychophysiological Research.
- Pavon, J.M., Thomas, P.C., Bowers, D, Roy, A., Garvan, C., Okun, M.S. (2007, November). *Impact of Age and Neuropsychological Function on Extended Hospital Stay following Deep Brain Stimulation*, 60th annual meeting of the Gerontological Society of America, San Francisco, CA.
- Mikos, A.E, Parker, B., Kirsch-Darrow, L., Jacobson, C., Okun, M.S., Fernandez, H.H., Bowers, D. (2008, February). *Concurrent validity between a computerized battery and the DRS-2 in the cognitive screening of movement disorders patients*. 36th annual meeting of the International Neuropsychological Society, Waikoloa, HI.
- Mikos, A., Skoblar, B., Springer, U.S., Kellison, I.L., Nisenzon, A., Fernandez, H.H., Okun, M.S., Bowers, D. (2008, February). *Emotion self-perception in Parkinson Disease*. 36th annual meeting of the International Neuropsychological Society, Waikoloa, HI.
- Springer, U.S., Parker, B., Fernandez, H.H., Crucian, G.P., Okun, M.S., Bowers, D (2008, February) *Operating characteristics of Mindstreams' Visual Spatial Perception Score in Parkinson's Disease*. 36th annual meeting of the International Neuropsychological Society, Waikoloa, HI.
- Bowers, D., Kirsch-Darrow, L., Mikos, A., Springer, U.S., Fernandez, HH, Okun, MS. (2008, February). *Apathy in non-demented Parkinson Disease: Relationship to psychophysiological blunting*. 36th Annual meeting of the International Neuropsychological Society, Waikoloa, HI
- Kirsch-Darrow, L., Zahodne, L., Mikos, A., Skoblar, B. Hass, C., Jacoson, C., Fernandez, H., Okun, M.S., Rodriguez, R., Bowers, D. (2008, February) *Apathy measurement in Parkinson's disease; Comparing the UPDRS item 4 and the Apathy Evaluation Scale*. 36th annual meeting of the International Neuropsychological Society, Waikoloa, HI.
- Zahodne, L.B., Kellison, I., Okun, M.S., Fernandez, H.H., Bowers, D. (2008, February). *Changes in Apathy and Depression over Time among Patients with Parkinson's Disease*. 36th annual meeting of the International Neuropsychological Society, Waikoloa, HI.
- Zahodne, L., Young, S., Nisenzon, A., Jacobson, C., Fernandez, H.H., Okun, M.S., Bowers, D. (2008, February). *Profiles of apathy among Parkinson patients in the United States*. 36th annual meeting of the International Neuropsychological Society, Waikoloa, HI

Bowers, D., Kirsch-Darrow, L., Mikos, A., Springer, U.S., Fernandez, HH, Okun, MS. (February 2008). *Apathy in non-demented Parkinson Disease: Relationship to psychophysiological blunting*. 36th Annual meeting of the International Neuropsychological Society, Waikoloa, HI

Okun, M.S., Fogel, A., Skoblar, B., Zeilman, P., Foote, K.F., Bowers, D. (2008, April). *Patient Centered Outcomes for Deep Brain Stimulation*. American Academy of Neurology, April 2008

Bowers, D., Kirsch-Darrow, L., Mikos, A., Springer, U.S., Fernandez, HH, Okun, MS. (2008, April). *Apathy and Psychophysiological blunting in Parkinson Disease*. American Academy of Neurology, April 2008

Kaufman, D.S., Perlstein, W.M., Blanco, M.J., Larson, M.J., Okun, M.S., Fernandez, H.F., Bowers, D. (2008, April). *Relationship between Apathy and the P3 Responses in Parkinson Disease*. American Academy of Neurology, April 2008.

Kluger, B., Garvan, C., Jacobson, C., Rodriguez, R., Fernandez, H., Fogel, A., Skoblar, B., Bowers, D., & Okun, M.S. (2008, April). *Prevalence and Clinical Significance of Fatigue following Deep Brain Surgery in Parkinson's disease*. American Academy of Neurology, April 2008.

Cooper, C.A., Wood, M.F., Mikos, A.E., Kirsch, L., Jacobson, C., Okun, M.S., Rodriguez, R.L., Bowers, D., & Fernandez, H.H. (2008, April). *Laterality of Motor Impairment Could Play a Role in Cognitive Function in Parkinson Disease*. Presented at the Annual Meeting of the American Academy of Neurology, Chicago IL.

Okun, M.S., Fernandez, H.H., Wu, S.S., Kirsch-Darrow, L., Bowers, D., Suelter, M., Jacobson, C., Wang, X., Gordon, C., Zeilman, P., Romrell, J., Martin, P., Rodriguez, R., Foote, K.D. (2008, June). *Cognition and Mood in Parkinson Disease after Unilateral STN versus GPi DBS: The COMPARE Trial*. To be presented at 12th International Congress of Parkinson's Disease, Chicago, Ill.

Okun, M.S., Fernandez, H.H., Wu, S.S., Kirsch-Darrow, L., Bowers, D., Suelter, M., Jacobson, C., Wang, X., Gordon, C., Zeilman, P., Romrell, J., Martin, P., Rodriguez, R., Foote, K.D. (2008, June). *Cognition and Mood in Parkinson Disease after Unilateral STN versus GPi DBS: The COMPARE Trial*. To be presented at meeting of AASFN, Vancouver, Canada

Nisenzon, A.N., Springer, U.S., Mikos, A., Okun, M.S., Fernandez, HF., Bowers, D. (to be presented 2008, April). *Effect of Motor Symptom Onset Asymmetry on Facial Expressivity in Parkinson Disease*. American Psychological Association, Boston, MA, August 2008.

INVITED TALKS

Bowers, D. (1977) Differential Diagnosis - dementia vs. depression. Florida Society of Neurology. December 1977. Lake Buena Vista, Florida.

Bowers, D. (1979) Effects of hemispace on tactile laterality tasks. Invited talk, Department of Neurology, University of Oregon Medical Sciences. October 1979. Portland, Oregon.

Bowers, D. (1979) Hemispatial effects on laterality tasks. Invited talk, Department of Psychology, University of Victoria. October 1979. Victoria, British Columbia.

- Bowers, D. (1980) Neuropsychological assessment of frontal-subcortical dementia. Florida Society of Neurology. December 1980. Daytona Beach, Florida.
- Bowers, D. (1981) Color Agnosia. Florida Society of Neurology. December 1981. St. Petersburg, Florida.
- Bowers, D. (1983) Neuropsychological assessment of memory in dementia. Florida Society of Neurology. November 1983. Sarasota, Florida.
- Bowers, D. (1985) Disorders of memory. Florida Society of Neurology. November 1985. Sarasota, Florida.
- Bowers, D. (1986) Neuropsychological distinctions among amnesic syndromes. Florida Society of Neurology. December 1986. Lake Buena Vista, Florida.
- Bowers, D. (1987) Cognitive models of emotion. Florida Society of Neurology. December 1987. Lake Buena Vista, Florida.
- Bowers, D. (1988) Frontal contributions to amnesia. Florida Society of Neurology. December 1988. Lake Buena Vista, Florida.
- Bowers, D. (1989) Varieties of attention. Florida Society of Neurology. December 1989. Tampa, Florida.
- Bowers, D. (1990) Assessment of Cognitive Function. Update on Dementia, UF Memory Disorder Clinic, February 90,
- Bowers, D. (1990) Faces and gestures. Florida Society of Neurology. December 1990, Lake Buena Vista, Florida.
- Bowers, D. (1991) Disorders of Temporal Memory. Florida Society of Neurology. Lake Buena Vista, FL, December 1991.
- Bowers, D., (1992). Memory disorders following cortical and subcortical dementia. Paper presented at 17th annual course in Behavioral Neurology and Neuropsychology (Florida Society of Neurology and Center for Neuropsychological Studies), Lake Buena Vista, FL, December 1992.
- Bowers, D. (1993). The cold cognitions of emotion. Paper presented at the 18th annual course in Behavioral and Neuropsychology (Florida Society of Neurology and Center for Neuropsychological Studies), Lake Buena Vista, FL, December 1993.
- Bowers, D. (1995) Cortical contributions to emotion. Invited speaker, American Epilepsy Society. Washington, D.C., September 1995.
- Bowers, D. (1995). Neuropsychology for the Speech/Language Pathologist. Invited speaker, American Speech and Hearing Association, Orlando, FL, December 1995.
- Bowers, D. (1995). Neuropsychological Assessment of memory. 20th Annual course in Behavioral Neurology and Neuropsychology (Florida Society of Neurology and Center for Neuropsychological Studies), Orlando, FL, December 1995.
- Bowers, D. (1997). Neuropsychology of Emotion. Houston Neuropsychological Society. Baylor

School of Medicine. Houston, TX. September 1997.

Bowers, D. (2001). The role of the amygdala in emotion. 26th Annual course in Behavioral neurology and Neuropsychology (Florida Society of neurology), Orlando, FL, December 2001.

Bowers, D. (2002). The assessment of emotion. 27th Annual course in Behavioral Neurology and Neuropsychology (Florida Society of Neurology), Orlando, FL, December.

Bowers, D. (2004). Emotional Changes in Parkinson's Disease. 2nd Annual UF Parkinson's Disease Update, McKnight Brain Institute, Gainesville, FL

Bowers, D. (2005). Assessment of Emotion and Mood In Parkinson's Disease. 30th Annual course in Behavioral Neurology and Neuropsychology (Florida Society of Neurology), Orlando, FL., December.

INVITED WORKSHOPS

Bowers, D. Bauer, R., E. Fennell (1981): Workshop in Neuropsychological Assessment. A preconvention workshop of the 7th Annual Course in Behavioral Neurology and Neuropsychology. Florida society of neurology, December 3, 1981. St. Petersburg, Florida.

Bowers, D., R. Bauer, Fennell, E., and Rothi, L. (1983): Introductory Workshop on Neuropsychological Assessment". A pre-convention workshop of the 11th annual meeting of the International Neuropsychology Society. Mexico City, Mexico DF February 3, 1983.

Bowers, D. and Bauer, R. (1983): Workshop on "Neuropsychological Assessment of Memory". A preconvention workshop of the 9th Annual Course in Behavioral neurology and Neuropsychology. Florida Society of Neurology: November 16, 1983. Sarasota, Florida.

Bowers, D., and Bauer, R. (1991) Seminar series on "Emotions and the Brain". Sponsored by Cortext, October-November 1991, Miami, Tampa, St. Petersburg, Orlando, Jacksonville, FL.

Bowers, D., and Bauer, R. (1994) Seminar series on "Emotions and the Brain". Sponsored by MindMatters, March 1993, Houston, Dallas, Austin, San Antonio, Tx.

Bowers, D. (1997). Neuropsychology of Emotion. Houston Neuropsychological Society. Baylor School of Medicine. Houston, TX. September

HONORS AND AWARDS

Valedictorian, Marianna High School, 1968

Emory University Academic Scholarship, 1968-1970

Highest Honors in Psychology, University of Florida, 1972

UF Foundation Research Professor, 2006-2009

EXTRAMURAL SERVICE

Grant Reviewer	<p>Ad hoc member, Merit Review for VAMC Western Division, 1992</p> <p>Member, VA Merit Review Mental Health and Behavioral Science Subcommittee, 1995-1998</p> <p>Ad hoc reviewer, Clinical Neuroscience Special Review Group, National Institutes of Mental Health, 1994.</p> <p>Ad hoc Reviewer, NINDS Special Review Group of Center grants National Institutes of Health, Fall 1994, Fall 1995</p> <p>Ad hoc Reviewer, Minority Research Infrastructure Support Program (MRISP), Special Review Group, 1999-2002.</p> <p>Biobehavioral Mechanisms of Emotion, Stress, and Health (MESH) Review Group, National Institutes of Health, 2004-</p> <p>Ad hoc Reviewer, Special Emphasis Panel (SRG 2006/01), Cognition & Perception, NIMH, February 2005</p> <p>Ad hoc Reviewer, Special Emphasis Panel, Brief Start Review Program, NIA/NIH. February 2006.</p> <p>Ad hoc Reviewer, Special Emphasis Panel (ZRR1 BT-8 01), NIH, Interdisciplinary Research Consortium, August 2006</p>
Editorial	<p>Editorial Board, <u>The Clinical Neuropsychologist</u> <u>Journal of International Neuropsychology Society</u></p>
Reviewer	<p>Neuropsychologia Behavioral and Brain Science Journal of Abnormal Psychology Journal of International Neuropsychology Society Cortex Neuropsychology Journal of Experimental and Clinical Neuropsychology Assessment Emotion</p>
Other	<p>Chair, Committee on Historical Contributions, International Neuropsychological Society, 2008-</p> <p>Mentor, Women in Neuropsychology (WIN), APA Division 40, 2000-present</p> <p>Awards Committee, International Neuropsychology Society, 2005-Ongoing</p> <p>Continuing Education Committee, International Neuropsychology Society, 1993-1998</p>

Program Committee, International Neuropsychology Society, 1986, 1991, 1996, 2004. 2008

Program Committee, American Psychological Society, 1995

Judge and Director, Behavioral Science Section, State of Florida Science Fair, 2000

Judge, Behavioral Science Section, Alachua County Science Fair, 1995

Judge, Behavioral Science Section, State of Florida Science Fair, 1992

UNIVERSITY SERVICE

Opportunity Fund Biomedical Review Committee, 2008

Florida Cares Program, 2004- ongoing

University Task Force, Revision of criteria for New Undergraduate Degree Programs, June 2002-October 2002

Graduate Council, University of Florida, 1999-2002

Graduation Marshal, University of Florida, 1999-2001

Health Science Center Institutional Review Board, 1995-1997

Space Design Committee, McKnight Brain Institute, 1993-1995

University of Florida Senate, 1987-1989

Florida Foundation of Future Scientists, Participating Faculty

Advisor, Interdisciplinary Studies Majors in Neurobiology/
Cognitive Neuroscience

Center for Precollegiate Education and Training, advisor

National Science Foundation Summer Institute in Neurobiology,

DEPARTMENTAL SERVICE

Neuropsychology Area Head, 2006-ongoing

Director, Clinical Neuropsychology Post-doctoral Program 2005-

Graduate Student Admissions Committee, 1998-2003, 2004-2006

Psychology Clinic Team Leader, 1999-2002

Psychology Clinic Marketing Committee, 2001

Various Faculty Search Committees (Clinical Psychology, Neurology)

Representative, Multidisciplinary Epilepsy Management Team, 2000-ongoing

Faculty mentor, Interdisciplinary Family Health program, 2003-4

Member, Faculty Mentoring Committee (Dr. Moore), 2003-2004

Chair, Search Committee, Neuropsychology Faculty Position 2005

Chair, Faculty Mentoring Committee (Dr. Price), 2005-

Co-Chair, Neuropsychology Workgroup, 2005-2006

Member, Clinical Science Workgroup, 2005-2006

Member, Internship Review Workgroup (Guenther), 2007

Member, Internship Workgroup (Waxenberg), 2006

UNIVERSITY ORGANIZATIONS

Center for Neuropsychological Studies, Founding Member, University of Florida, 1985-present

University of Florida Brain Institute, Charter Member, 1990-

College of Medicine Women Faculty Association, Charter Member, 1992-1998

Neural Program for Signal Transduction, Neuroplasticity & Drug Discovery, Charter member, 1995-1998

Institute of Aging, University of Florida, 1999-

Movement Disorders Center, 2003-present

TEACHING

Undergraduate

Introduction to Neuropsychology (1980)
Undergraduate Research (Psy 3911, CLP 3911, HP4905)

Graduate

Neuropsychological Disorders in Aging (1999)
Neuropsychological Assessment (2000, 2002, 2004, 2006)
Experimental Methods in Neuropsychology (2001, 2003)
Neuropsychology Symposium (2001, 2003)
Practicuum in Neuropsychology, 1998-present
Advanced Practicum in Neuropsychology, 1998-present

RESEARCH SUPERVISION

Post-Doctoral	<p>Supervision of Post-Doctoral Research Fellows in Behavioral Neurology Research Laboratory, Center for Neuropsychological Studies, Department of Neurology, 1980-1998.</p> <p><i>Approximately 55 post-doctoral fellows were co-mentored over an 18 year period by Ken Heilman (neurologist) and myself. This occurred as part of a multidisciplinary training program that included M.D.'s and Ph.D.'s (neurology, neuropsychology, cognitive psychology, psychiatry, speech pathology) from the U.S. and around the world (Japan, Korea, Israel, Belgium, Canada)</i></p> <p>Supervision of Post-Doctoral Neuropsychology Research Fellows in Cognitive Neuroscience Laboratory, McKnight Brain Institute, Clinical & Health Psychology, University of Florida, 1999-</p>
Graduate	Masters and Doctoral Committees: Total 75
Undergraduate	<p>Major Advisor, Psychology Honors Theses: 9</p> <p>Major Advisor, Interdisciplinary Studies in Neurobiological Sciences: 6</p> <p>Major Advisor, University Scholars: 3</p>
Other:	Medical Student and Resident Training in Neuropsychological Assessment