

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Gordon J. Harris, Ph.D.	POSITION TITLE Associate Professor of Radiology
eRA COMMONS USER NAME gjharris	

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

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Lafayette College, Easton, PA	B.S.	1986	Electrical Engineer
Johns Hopkins Univ., Baltimore, MD School of Hygiene and Pub. Health	Ph.D.	1990	Radiation Health Sciences
Johns Hopkins Univ., Baltimore, MD School of Hygiene and Pub. Health	Post-doctoral Fellowship	1991	Psychiatric Neuroimaging

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

PROFESSIONAL EXPERIENCE:

1991 - 1992 Instructor, Division of Psychiatric Neuroimaging, Dept. of Psychiatry,
The Johns Hopkins University School of Medicine, Baltimore, MD

1992 - 1993 Assistant Professor, Division of Psychiatric Neuroimaging, Department of Psychiatry,
The Johns Hopkins University School of Medicine, Baltimore, MD

1993 - 1997 Assistant Professor of Psychiatry,
Director, Neuroimaging Research Laboratory,
Tufts University School of Medicine, Boston, MA

1997 - Present Associate Professor of Radiology,
Director, Radiology Computer Aided Diagnostics Laboratory, and Tumor Imaging Metrics Core
Harvard Medical School, Massachusetts General Hospital, Boston, MA

HONORS: East-Coast Conference Scholar-Athlete Award (1984, 1985)
Delta Omega Honor Society Certificate of Merit (1988)
Ehrlich Research Award Nominee (1990, 1991)

B. Selected peer-reviewed publications (in chronological order).

(Selected from over 65 peer-reviewed published articles, 5 book chapters, 100 abstracts & presentations)

Harris, G.J., Rhew, E.H., Noga, J.T., Pearlson, G.D. A user-friendly method for rapid brain and CSF volume calculation using transaxial MRI images. Psychiatry Research: Neuroimaging 1991; 40:61-68.

Harris, G.J., Links, J.M., Pearlson, G.D., Camargo, E.E. Cortical Circumferential Profile of SPECT cerebral perfusion in Alzheimer's disease. Psychiatry Research: Neuroimaging 1991; 40:167-180.

Machlin S.R., Harris, G.J., Pearlson, G.D., et al. Elevated medial-frontal cerebral blood flow in obsessive-compulsive patients: A SPECT study. American Journal of Psychiatry 1991; 148:1240-1242.

Hoehn-Saric, R., Pearlson, G.D., Harris, G.J., et al. Effects of fluoxetine on regional cerebral blood flow in obsessive-compulsive patients. American Journal of Psychiatry 1991; 148:1243-1245.

Harris, G.J., Pearlson, G.D., Peyser, C.E., et al. MRI putamen volume reduction exceeds caudate changes in mild Huntington's disease. Annals of Neurology 1992; 31:69-75.

Pearlson, G.D., Harris, G.J., Powers, R.E., et al. Quantitative changes in mesial temporal volume, regional cerebral blood flow and cognition in Alzheimer's disease. Archives of General Psychiatry 1992; 49:402-408.

Aylward EH, Brandt J, Codori AM, Mangus RS, Barta PE, Harris GJ. Reduced basal ganglia volume associated with the gene for Huntington's disease in asymptomatic at-risk persons. Neurology 1994; 44:823-828.

Harris GJ, Barta PE, Peng LW, Lee S, Brettschneider PD, Shah A, Henderer JD, Schlaepfer TE, et al. MR gray and white matter volume segmentation using manual thresholding: Dependence on image brightness. AJNR 1994; 15:225-230.

Harris GJ, Schlaepfer TE, Peng LW, Lee S, Federman EB, Pearlson GD. Magnetic resonance imaging evaluation of the effects of ageing on grey-white ratio in the human brain. Neuropathology and Applied Neurobiology 1994; 20:290-293.

Schlaepfer TE, Harris GJ, Tien AY, Peng LW, Lee S, Federman EB, Chase GA, Barta PE, Pearlson GD. Pattern of decreased regional cortical gray matter volume in schizophrenia using magnetic resonance imaging. American Journal of Psychiatry 1994; 151:842-848.

Harris GJ, Pearlson GD, McArthur JC, Zeger S, LaFrance ND. Altered cortical blood flow in HIV-seropositive individuals with and without dementia: a single photon emission computed tomography study. AIDS 1994; 8:495-499.

Harris GJ, Hoehn-Saric R, Lewis RW, Pearlson GD, Streeter C. Mapping of SPECT regional cerebral perfusion abnormalities in obsessive-compulsive disorder. Human Brain Mapping 1994; 1(4): 237-248.

Schlaepfer TE, Harris GJ, Tien AY, Peng LW, Lee S, Pearlson GD. Structural differences in the cerebral cortex of healthy female and male subjects: A MRI study. Psychiatry Res: Neuroimaging 1995; 61:129-135.

Harris GJ, Aylward EH, Peyser CE, Pearlson GD, Brandt J, Roberts-Twillie JV, Barta PE, Folstein SF. Single photon emission computed tomographic blood flow and magnetic resonance volume imaging of basal ganglia in Huntington's disease. Archives of Neurology 1996; 53:316-324.

Aylward EH, Harris GJ, Hoehn-Saric R, Barta PE, Machlin SR, Pearlson GD. Normal caudate nucleus in obsessive-compulsive disorder assessed by quantitative neuroimaging. Archives of General Psychiatry 1996; 53:577-584.

Harris GJ, Lewis RF, Satlin A, English CD, Scott TM, Yurgelun-Todd DA, Renshaw PF. Dynamic susceptibility contrast MRI of regional cerebral blood volume in Alzheimer's disease. American Journal of Psychiatry 1996; 153:721-724.

Harris GJ, Lewis RF, Satlin A, English CD, Scott TM, Yurgelun-Todd DA, Renshaw PF. Dynamic susceptibility contrast MR Imaging of regional cerebral blood volume in Alzheimer's disease: A promising alternative to nuclear medicine. American Journal of Neuroradiology 1998; 19:1727-1732.

Streeter CC, Ciraulo DA, Harris GJ, Kaufman MJ, Lewis RF, Knapp CM, Ciraulo AM, Maas LC, Ungeheuer M, Szulewski S, Renshaw PF. Functional magnetic resonance imaging of alprazolam-induced changes in humans with familial alcoholism. Psychiatry Res 1998;82(2):69-82.

Harris GJ, Oscar-Berman M, Gansler A, Streeter C, Lewis RF, Ahmed I, Achong D. Hypoperfusion of the cerebellum and aging effects on cerebral cortex blood flow in abstinent alcoholics: a SPECT study. Alcohol Clin Exp Res 1999;23(7):1219-27.

Harris GJ, Codori AM, Lewis RF, Schmidt E, Bedi A, Brandt J. Reduced basal ganglia blood flow and volume in pre-symptomatic, gene-tested persons at-risk for Huntington's disease. Brain 1999;122 (Pt 9):1667-78.

Gansler DA, Harris GJ, Oscar-Berman M, Streeter C, Lewis RF, Ahmed I, Achong D. Hypoperfusion of inferior frontal brain regions in abstinent alcoholics: a pilot SPECT study. J Stud Alcohol 2000;61(1):32-7.

McMahon PM, Araki SS, Neumann PJ, Harris GJ, Gazelle GS. Cost-effectiveness of functional imaging tests in the diagnosis of Alzheimer disease. Radiology 2000;217(1):58-68.

Gleason S, Furie KL, Lev MH, O'Donnell J, McMahon PM, Beinfeld MT, Halpern E, Mullins M, Harris G, Koroshetz WJ, Gazelle GS. Potential influence of acute CT on inpatient costs in patients with ischemic stroke. Acad Radiol 2001;8(10):955-64.

Lev MH, Segal AZ, Farkas J, Hossain ST, Putman C, Hunter GJ, Budzik R, Harris GJ, Buonanno FS, Ezzeddine MA, Chang Y, Koroshetz WJ, Gonzalez RG, Schwamm LH. Utility of perfusion-weighted CT imaging in acute middle cerebral artery stroke treated with intra-arterial thrombolysis: prediction of final infarct volume and clinical outcome. Stroke 2001;32(9):2021-8.

Sorensen AG, Patel S, Harmath C, Bridges S, Synnott J, Sievers A, Yoon YH, Lee EJ, Yang MC, Lewis RF, Harris GJ, Lev M, Schaefer PW, Buchbinder BR, Barest G, Yamada K, Ponzo J, Kwon HY, Gemmete J, Farkas J, Tievsky AL, Ziegler RB, Salhus MR, Weisskoff R. Comparison of diameter and perimeter methods for tumor volume calculation. J Clin Oncol 2001;19(2):551-7.

Herbert MR, Harris GJ, Adrien KT, Ziegler DA, Makris N, Kennedy DN, Lange NT, Chabris CF, Bakardjiev A, Hodgson J, Takeoka M, Tager-Flusberg H, Caviness VS, Jr. Abnormal asymmetry in language association cortex in autism. Ann Neurol 2002;52(5):588-96.

Hadjikhani N, Joseph RM, Snyder J, Chabris CF, Clark J, Steele S, McGrath L, Vangel M, Aharon I, Feczko E, Harris GJ, Tager-Flusberg H. Activation of the fusiform gyrus when individuals with autism spectrum disorder view faces. NeuroImage 2004; 22: 1141-1150.

DeFosse L, Hodge SM, Makris N, Kennedy DN, Caviness VS, McGrath L, Steele S, Ziegler DA, Herbert MR, Frazier J, Tager-Flusberg H, Harris GJ. Language impairment and abnormal asymmetry in language association cortex in autism and SLI. Ann Neurol 2004; 56:757-766.

Harris GJ, Chabris CF, Clark J, Urban T, Aharon I, Steele S, McGrath L, Condouris K, Tager-Flusberg H. Brain Activation During Semantic Processing in Autism Spectrum Disorders via Functional Magnetic Resonance Imaging. Brain and Cognition 2006; 61:54-68.

Camargo EC, Furie KL, Singhal AB, Roccatagliata L, Cunnane ME, Halpern EF, Harris GJ, Smith WS, Gonzalez RG, Koroshetz WJ, Lev MH. Acute Brain Infarct: Detection and Delineation with CT Angiographic Source Images versus Nonenhanced CT Scans. Radiology 2007; 244(2):541-8.

Makris N, Oscar-Berman M, Jaffin SK, Hodge SM, Kennedy D, Caviness VS, Marinkovic K, Breiter HC, Gasic GP, Harris GJ. Decreased Volume of the Brain Reward System in Alcoholism. Biological Psychiatry 2008 (in press.)

Harris GJ, Jaffin SK, Hodge SM, Kennedy D, Caviness VS, Marinkovic K, Makris N, Oscar-Berman M. Frontal white matter and cingulum diffusion tensor imaging deficits in alcoholism. Alcoholism: Clinical and Experimental Research 2008 (in press).

- C. **Research Support.** List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

Ongoing Research Support

3 R37 AA07112-19 (Oscar-Berman) 09/01/01-08/31/10 20% (2.4 months)
NIAAA \$89,022 (MGH subcontract)
Affective and conative changes in alcoholism
Role on Project: P.I. on imaging subcontract to MGH

Major goals: To study emotional and memory abnormalities in long-term sober alcoholic subjects and controls using structural and functional MRI.

P50 NS051343-01A2 (Koroshetz) 10/1/06-09/30/11 20% (2.4 months)
NINDS \$1,403,039
SPOTRIAS – Stroke Program Project
Role on Project: P.I. on Neuroimaging Core

Major goals: To study new CT imaging modalities in order to determine whether acute stroke subtypes can be determined and patients triaged according to prognosis and potential treatment.

Dana-Farber/Harvard Cancer Center (Benz) 12/01/00-11/30/10 20% (2.4 months)
NCI \$120,000 (MGH TIMC subcontract)
Tumor Imaging Metrics Core
Role on Project: Principal Investigator

Major goals: To develop a centralized, longitudinal, secure web-reporting and measurement system to track volume change of tumors for patients on clinical therapeutic trials among the five Harvard hospitals.

NF050202 (Plotkin) 9/04/06-10/31/10 10% (1.2 months)
DOD \$261,915
Whole body MRI evaluation in subjects with NF1, NF2, and schwannomatosis
Role on Project: Co- Investigator

Major goals: To evaluate the role of whole body MRI scanning in patients with neurofibromatosis

UL1 RR025758-01 (Nadler) 05/19/08-04/30/13 8.33% (1.0 months)
NIH/NCRR \$22,148,106
Harvard Clinical and Translational Science Center
Role: Site Director of Translational Imaging Consortium

Major goals: The Harvard CTSC is a new collaborative and trans-disciplinary environment to foster clinical translational research and training for Harvard and its affiliated Academic Healthcare Centers.