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### EDUCATION and POSITIONS

9/03 - present	<u>Vanderbilt University</u> Associate Professor (tenured) in Department of Psychology. Associate Prof in Dept of Radiology (secondary appointment).	Nashville, TN
7/02 – 8/03	<u>Yale University School of Medicine</u> Associate Professor (tenure track) in Department of Neurobiology.	New Haven, CT
9/96 – 6/02	<u>Yale University School of Medicine</u> Assistant Professor (tenure track) in Section of Neurobiology.	New Haven, CT
3/96 - 8/96	<u>University of Queensland</u> Visiting Scholar at Vision Touch & Hearing Research Center.	Brisbane, Australia
7/95 - 2/96	<u>Baylor College of Medicine</u> Research Assistant Professor (non-tenure track) in Division of Neuroscience.	Houston, TX
12/92 - 6/95	<u>Baylor College of Medicine</u> Post-doctoral fellow in Division of Neuroscience under Dr. Daniel Y. Ts'o.	Houston, TX
6/91 - 11/92	<u>Rockefeller University</u> Post-doctoral fellow in Dept. of Neurobiology under Dr. Daniel Y. Ts'o & Torsten Wiesel.	New York, NY
9/86 – 5/91	<u>M.I.T.</u> Ph.D. program in Dept. of Brain and Cognitive Sciences. (Thesis under Dr. Mriganka Sur)	Cambridge, MA
9/85 – 8/86	<u>Yale University</u> Ph.D. program in Section in Neuroanatomy.	New Haven, CT
9/84 – 6/85	<u>Harvard University</u> Ph.D. program in Program in Neuroscience.	Boston, MA
9/79 – 6/84	<u>Harvard University</u> B.A. <i>cum laude</i> 1984. Biochemistry major with special field of interest in neurobiology.	Cambridge, MA

### PUBLICATIONS

- Lu HD, Chen GC, Roe AW (2008) A direction map in Macaque V2 but not V1, submitted.
- Chen LM, Friedman RM, Roe AW (2008) Optical imaging of digit topography in individual awake and anesthetized squirrel monkeys, submitted.
- Chen LM, Friedman RM, Roe AW (2008) Area-specific representation of mechanical nociceptive stimuli within SI cortex of squirrel monkeys. Pain, *in press*.
- Friedman RM, Chen LM, Roe AW (2008) Responses of areas 3b and 1 in anesthetized squirrel monkeys to single and dual site stimulation of the digits. J Neurophysiol, *in press*.
- Lu HD\*, Chen G\*, Ts'o DY, Roe AW (2008) A rapid topographic mapping and eye alignment method using optical imaging in Macaque visual cortex. Neuroimage, *in press*. \*equal contributions.
- Kaskan PM, Lu HD, Dillenburger BC, Kaas JH, Roe AW (2008) The organization of orientation-selective, luminance-change and binocular-preference domains in the second (V2) and third (V3) visual areas of New

World owl monkeys as revealed by intrinsic-signal optical imaging. Cereb Cortex, doi:10.1093/cercor/bhn178..

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Roe AW, Chen LM (2007) High resolution fMRI maps of cortical activation in non-human primates: correlation with intrinsic signal optical images. ILAR Journal, National Research Council of the National Academies, 49(1):116-123.

Roe AW, Parker AJ, Born RT, DeAngelis GC (2007) Disparity channels in early vision: a mini-review. J Neurosci, 27:11820-11831. *Cover figure*.

Kaskan PM, Lu HD, Dillenburger BD, Roe AW, Kaas JH (2007) Intrinsic-signal optical imaging reveals cryptic ocular dominance columns in primary visual cortex of New World owl monkeys. Frontiers in Neuroscience, 290(3):349-66.

Chen LM, Turner G, Friedman RM, Gore JC, Roe AW, Avison MJ (2007) High resolution maps of real and illusory tactile activation in SI: intra-individual correlation with fMRI, optical imaging and electrophysiology. J Neurosci, 27(34):9181-9191.

Hung CP, Ramsden RM, Roe AW (2007) A functional circuitry for edge-induced brightness perception. Nature Neurosci, 10:1185-1190.

<http://www.vanderbilt.edu/news/releases/2007/8/20/when-in-doubt-brain-relies-on-precise-timing-to-perceive-brightness>

<http://www.physorg.com/news106849780.html>

Lu HD, Roe AW (2007) Functional organization of color domains in V1 and V2 of Macaque monkey revealed by optical imaging. Cerebral Cortex, 18(3):516-33. *Cover figure*.

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Roe AW (2007) Long-term optical imaging of intrinsic signals in anesthetized and awake monkeys. Applied Optics 46:1872-1880.

Chen LM, Friedman RM, Roe AW (2005) Optical imaging of SI topography in anesthetized and awake squirrel monkey. J Neurosci 25: 7648-7659. *Cover figure*.

Roe AW, Fristches K, Pettigrew JD (2005) Optical imaging of functional organization in V1 and V2 of marmoset visual cortex. Anat Rec 287:1213-25.

Roe AW, Lu H, Hung CP (2005) Cortical processing of a brightness illusion. Proc Natl Acad Sci USA 102:3869-3874.

Friedman RM, Chen LM, Roe AW (2004) Modality maps within primate somatosensory cortex. Proc Natl Acad Sci USA 101:12724-12729.

Schwartz TH, Chen LM, Friedman RM, Spencer DD, Roe AW (2004) Intraoperative optical imaging of face topography in human somatosensory cortex. Neuroreport 15:1527-1532. *Cover figure*.

Chen LM, Friedman RM, Roe AW (2003) Optical imaging of a tactile illusion in Area 3b of primary somatosensory cortex. Science 302:881-885.

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Hung CP, Ramsden BM, Roe AW (2002) Weakly-modulated spike trains: significance, precision, and correction for sample size. J Neurophysiol 87: 2542-2555.

Chen LM, Heider B, Healy FL, Ramsden BR, Williams GV, Roe AW (2002) A chamber and artificial dura method for long-term optical imaging in primates. J Neuroscience Methods 113:41-49.

- Chen LM, Friedman RM, Ramsden BM, LaMotte RH, Roe AW (2001) Fine-scale organization of primary somatosensory cortex (Area 3b) in the squirrel monkey revealed with intrinsic optical imaging. J Neurophysiology 86:3011-3029.
- Ramsden BM, Hung CP, Roe AW (2001) Real and illusory contour processing in Area V1 of the primate – a cortical balancing act. Cerebral Cortex 11:648-665.
- Ts'o DY, Roe AW, Gilbert CD (2001) A hierarchy of the functional organization for color, form and disparity in primate visual area V2. Vision Research 41:1333 - 1349.
- Hung CP, Ramsden BM, Roe AW (2001) Building surfaces from borders in Areas 17 and 18 of the cat. Vision Research 41:1389 - 1407.
- Spitzer MW, Calford MB, Clarey JC, Pettigrew JD, Roe AW (2001) Spontaneous and stimulus-evoked intrinsic optical signals in primary auditory cortex of the cat. J Neurophysiol 85:1283-1299.
- Roe AW, Ts'o DY (1999) Specificity of color connectivity between primate V1 and V2. J Neurophysiol 82:2719-2731.
- Vnek N, Ramsden B, Hung C, Goldman-Rakic PS, Roe AW (1999) Optical imaging of functional domains in the cortex of the awake and behaving primate. Proc Natl Acad Sci 96:4057-4060.
- Garraghty PE, Roe AW, Sur M (1998) Specification of retinogeniculate X and Y axon arbors in cats: fundamental differences in developmental programs. Dev Brain Res 107:227-231.
- Roe AW, Ts'o DY (1995) Visual topography in primate V2: multiple representation across functional stripes. J Neurosci 15:3689-3715.
- Chino YM, Cheng H, Smith EL, Garraghty PE, Roe AW, Sur M (1994) Early discordant binocular vision disrupts signal transfer in the lateral geniculate nucleus. Proc Natl Acad Sci 91:6938-6942.
- Garraghty PE, Roe AW, Chino YM, Sur M (1994) Abnormal development of retinogeniculate X axons in strabismic cats: a possible substrate for visual dysfunction. Neurosci Lett 165:223-226.
- Roe AW, Garraghty PE, Esguerra M, Sur M (1993) Experimentally induced visual projections to the auditory thalamus in ferrets: evidence for a W cell pathway. J Comp Neurol 334:263-280.
- Roe AW, Pallas SL, Kwon YH, Sur M (1992) Visual projections routed to the primary auditory cortex in ferrets: receptive fields of visual neurons in primary auditory cortex. J Neurosci 12:3651-3664.
- Roe AW (1991) Functional transformations of visual input by auditory thalamus and cortex: an experimentally induced visual pathway in ferrets. Doctoral dissertation, M.I.T., Cambridge, MA.
- Roe AW, Pallas SL, Hahm JO, Sur M (1990) A map of visual space induced into primary auditory cortex. Science, 250:818-820.
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- Roe AW, Garraghty PE, Sur M (1988) The terminal arbors of single on-center and off-center X and Y retinogeniculate axons within the ferret's lateral geniculate nucleus. J Comp Neurol, 288(2):208-242.
- Sur M, Garraghty PE, Roe AW (1988) Experimentally induced projections into auditory thalamus and cortex. Science 242:1437-1441.

White WF, Regan LJ, Roe AW, Messer A (1987) Behavior, genetics, and biochemistry of an allele of the mutant mouse spastic Spa<sup>ALB</sup>. J Neurogenetics 4(5):253-258.

#### REVIEW ARTICLES AND BOOK CHAPTERS

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Roe AW, Friedman RM, Chen LM (2007) Multiple Representation in Primate SI: A View From A Window on the Brain. In Handbook of Neurochemistry and Molecular Neurobiology: Sensory Neurochemistry, Vol 26 (Johnson D, Lajtha A, eds). Springer, New York NY, pp. 1-16.

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Roe AW (2003) Modular complexity of Area V2 in the Macaque monkey. In The Primate Visual System (Collins C, Kaas J, eds.). CRC Press, New York NY, pp 109-138.

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Ts'o DY, Roe AW (1995) Functional compartments in visual cortex: segregation and interactions. In The Cognitive Neurosciences (Gazzaniga MS, ed.). M.I.T. Press, Cambridge, MA, pp. 325-337.

Ts'o DY, Roe AW (1994) The organization and connectivity of color processing in visual cortex. Symposium for Otto Creutzfeldt. Springer-Verlag (Nothdruff C., ed.).

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Roe AW (2008) Invited discussant. Translational Research in Sensorimotor Integration and Transformation. Washington DC.

Roe AW (2008) Beyond correlated noise: evidence for intra- and inter-areal baseline biases in temporal coincidence. 16th Annual Dynamical Neuroscience Satellite Symposium. Washington DC.

Chen G, Lu HD, Tanigawa H, Roe AW (2008) Why maps for horizontal disparity exist in V2 not in V1. Soc Neurosci Meeting, Washington DC.

Friedman RM, Dillenburger BC, Roe AW (2008) Functional Imaging of Primate Cortex with Flavoprotein Autofluorescence. Soc Neurosci Meeting, Washington DC.

Fan R, Baldwin MKL, Casagrande VA, Kaas JH, Roe AW (2008) Orientation preference in dorsal V3 of prosimian galagos. Soc Neurosci Meeting, Washington DC.

Cayce J, Friedman RM, Remple M, Konrad P, Jansen ED, Mahadevan-Jansen A, Roe AW (2008) Infrared Stimulation of the Somatosensory Cortex of the Rat. Soc Neurosci Meeting, Washington DC.

- Lu HD, Chen G, Roe AW (2007) The positive component of the intrinsic optical signal is not domain-specific. Soc Neurosci Meeting, Washington DC.
- Kaskan PM, Lu HD, Dillenburger BC, Roe AW, Kaas JH (2008) Stimulus-invariant coding of direction of motion in MT of New World owl monkeys as revealed by intrinsic-signal optical imaging. Soc Neurosci Meeting, Washington DC.
- Tanigawa H, Roe AW (2008) Attentional modulation in macaque area V4 revealed by optical imaging. Soc Neurosci Meeting, Washington DC.
- Roe AW (2008) Imaging Mini-modules for Perception and Attention in the Brain. Packard Foundation Meeting, Park City, Utah.
- Zhang N, Chen LM, Turner GH, Friedman RM, Roe AW, Gore JC, Avison MJ (2008) Using fMRI to explore secondary somatosensory areas in the lateral sulcus of squirrel monkeys. ISMRM, Toronto, Canada.
- Kaskan PM, Lu HD, Dillenburger BC, Roe AW, Kaas JH (2008) The modular organization of V2 and V3 in New World owl monkeys. FENS.
- Roe AW (2008) Optical imaging of topography and featural representation in awake Macaque monkey V4. Analyzing Neural Circuits With Optical Methods. Univ Chicago, Chicago, IL.
- Roe AW (2008) Imaging perception in primate cerebral cortex. Current Issues In Developmental Psychobiology, Cozumel, Mexico.
- Tanigawa H, Lu HD, Chen G, Roe AW (2008) Functional subdivisions in macaque V4 revealed by optical imaging in the behaving Macaque monkey. Vision Sciences Society, Naples FL.
- Chen G, Lu HD, Tanigawa H, Roe AW (2008) Stereo matching problem is resolved at population level in the early stage of extrastriate visual cortex. Vision Sciences Society, Naples FL.
- Shou T, Roe AW (2007) Co-organizer of "Visual cortex: information processing and dynamics". International Conference on Cognitive Neurodynamics, Shanghai, China.
- Roe AW (2007) Optical imaging of visual features in the awake, fixating monkey. International Conference on Cognitive Neurodynamics, Shanghai, China.
- Tanigawa H, Lu HD, Chen G, Roe AW (2007) Functional organization of foveal V4 revealed by optical imaging in the behaving Macaque monkey, Soc Neurosci Meeting, San Diego, CA.
- Roe AW, Lu HD, Crewther D (2007) Blue color activation in V1 and V2 of Macaque monkey. Soc Neurosci Meeting, San Diego, CA.
- Lu HD, Chen G, Roe AW (2007) A map for motion streaks in V1 and V2, Soc Neurosci Meeting, San Diego, CA.
- Roe AW (chair), Parker A, Born RT, DeAngelis GC (2007) Disparity Channels in Early Vision, Soc Neurosci Meeting, San Diego, CA.
- Roe AW (2007) Light emitting cortices: VSD, OI, and AF? Merocyanine 540: 35th Year Anniv Celebr, Woods Hole, MA.
- Roe AW, Tanigawa H, Lu HD, Chen G (2007) Functional organization of foveal V4 revealed by optical imaging in the behaving Macaque monkey. Vision Down Under, Cairns, Australia.
- Roe AW, Lu HD, Crewther D (2007) Blue color activation in V1 and V2 of Macaque monkey. International Brain Res Org, Melbourne, Australia.
- Zhang N, Chen LM, Markus T, Baheza R, Roe AW, Gore JC, Avison M (2007) Relationship of BOLD response in SI of primate cortex to intensity of tactile stimulation. ISMRM-ESMRMB Joint Annual Meeting, Berlin, Germany.
- Zhang N, Chen LM, Markus T, Baheza R, Roe AW, Avison M, Gore JC (2007) Consistent negative BOLD responses in SI of primate cortex produced by tactile stimulation. ISMRM-ESMRMB Joint Annual Meeting, Berlin, Germany.
- Lu HD, Roe AW (2007) Response to motion and motion boundary in monkey V2. Vision Sciences Society, Sarasota, FL.
- Dillenburger BC, Kaskan PM, Lu HD, Roe AW (2007) Competition between real and illusory contours in early visual cortex revealed by a novel illusory contour stimulus (pureIC). Vision Sciences Society, Sarasota, FL.

- Roe AW (2006) Illusions and the brain: insights through an optical window. Keynote speaker at National Institute of Child Health and Human Development- Division of Intramural Research Retreat. St. Michaels, MD.
- Roe AW (2006) Illusions and the brain: insights through an optical window. Frontiers in Neuroimaging Symposium. Univ Alabama, Birmingham, AL.
- Roe AW, Friedman RM, Winberry JE (2006) Data acquisition with sets of stimuli. RedShirtImaging Workshop. Soc Neurosci Meeting, Atlanta, GA.
- Roe AW (2006) Extrastriate cortex I Slide Session chair. Soc Neurosci Meeting, Atlanta, GA.
- Chen G, Lu HD, Roe AW (2006) Functional architecture of Macaque cortical area V2 for depth surfaces revealed by optical imaging. Soc Neurosci Abstract, 114.6, Atlanta, GA.
- Chen LM, Turner FH, Markus TM, Friedman RM, Gore JC, Avison MJ, Roe AW (2006) Fine fingerpad topography in squirrel monkey SII cortex revealed by high field fMRI. Soc Neurosci Abstract, Atlanta, GA.
- Dillenburger BC, Roe AW (2006) Real and illusory contour interactions in early visual cortex of the Macaque monkey. Soc Neurosci Abstract, Atlanta, GA.
- Kaskan PM, Lu HD, Dillenburger BC, Roe AW, Kaas JH (2006) Simultaneous intrinsic signal optical imaging of visual cortical areas MT and MST in the nocturnal New World owl monkey, Aotus. Soc Neurosci Abstract, Atlanta, GA.
- Lu HD, Heider B, Roe AW (2006) Optical imaging of visual contour response in the awake, behaving monkey. Soc Neurosci Abstract, 640.10, Atlanta, GA.
- Friedman RM, Chen LM, Winberry JE, Roe AW (2006) Intrinsic and voltage dye imaging of the spatial acuity of area 1 in the macaque. Soc Neurosci Abstract, Atlanta, GA.
- Roe AW, Chen G, Lu HD (2006) A rapid topographic mapping and eye convergence method by optical imaging of small spots in anesthetized Macaque visual cortex. Soc Neurosci Abstract, 114.7, Atlanta, GA.
- Roe AW (2006) Optical imaging in Awake and Anesthetized Primates. Society for Neuroscience Short Course #2: Visualizing Large Scale Patterns of Activity in the Brain: Optical and Electrical Signals. Soc Neurosci Abstract, Atlanta, GA.
- Winberry JE, Friedman RM, Giber K, Roe AW (2006) Voltage sensitive dye imaging of ipsilateral and contralateral interactions of rat whisker barrels. Soc Neurosci Abstract, Atlanta, GA.
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- Roe AW (2006) Moderator "Receptive Fields, Organization, Plasticity". Vision Sciences Society. Sarasota, FL.
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- Gu L, Dillenburger B, Roe AW (2006) A novel dynamically induced illusory contour. Vision Sciences Society. Sarasota, FL.
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- Lu H, Chen G, Kaskan P, Roe AW (2006) Comparison of color and luminance contrast response in V2 thin stripes. Vision Sciences Society, abstract 1001. Sarasota, FL.
- Turner GH, Chen LM, Friedman RM, Gore JC, Roe AW, MJ Avison MJ (2006) High spatial resolution fMRI of digit topography and the funneling illusion in SI cortex of the anesthetized squirrel monkey. Int Soc Magnetic Resonance Medicine. Seattle, Washington.

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- Roe AW (2004) "Optical imaging workshop: Optical Imaging of Intrinsic Signals in Anesthetized and Awake Monkeys". International Conference on Physiological Biophysics, Shanghai, China.
- Roe AW (2004) "Dynamic organization of functional maps in SI of primates". International Conference on Physiological Biophysics, Shanghai, China.
- Roe AW (2004) Chair of "713: Visual Cortex: Context Effects and Contours". Soc Neurosci Meeting. Soc Neurosci Abstract, San Diego, CA.
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- Ramsden BM, Hung CP, Roe AW (2000) Intrinsic optical responses to illusory contour stimulation in Macaque V1 cortex: effects of inducing line orientation. Fourth Annual Vision Research Conference: Functional Brain Imaging in Vision, Fort Lauderdale, FL.
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- Roe AW, Ramsden BM, Hung CP (1999) Who sees what: differential response of primate V1 and V2 to real and illusory contours. Fifth IBRO World Congress of Neuroscience. Jerusalem, Israel.
- Roe AW, Ramsden BM, Hung CP (1999) What does V2 do that V1 doesn't do: clues from optical imaging and electrophysiology. 7<sup>th</sup> International Congress on Cognitive Neuroscience. Budapest, Hungary.
- Hung CP, Ramsden BM, Chen LM, Roe AW (1999) Edge-induced brightness perception studied through the Cornsweet illusion in visual cortex. Invest Ophthalmol Vis Sci Suppl, 40:S640.
- Ramsden BM, Hung CP, Chen LM, Roe AW (1999) Sub-domain modulation of intrinsic optical imaging signals associated with illusory contour perception in area V2 of the Macaque monkey cortex. Invest Ophthalmol Vis Sci Suppl, 40:S639.
- Ramsden B, Hung C, Roe AW (1999) What's My Line? - Real and illusory contour perception in monkey visual cortex. Eastern Psychological Association, 70:25.
- N. Vnek, C.P. Hung, B.M. Ramsden, P.S. Goldman-Rakic, A.W. Roe (1999) Optical imaging of cortical functional domains in the awake, behaving monkey. Cognitive Neurosci Soc Abstr, 1999:94.
- Roe AW (1999) Optical imaging of higher order feature perception in primates. Symposium on Advances in Understanding the Mammalian Visual Cortex. Canberra, Australia.
- Roe AW (1999) Optical imaging of visions in the brain. Winter Conference on Current Issues in Developmental Psychobiology. Georgetown, Grenada.
- Hung CP, Ramsden BM, Roe AW (1998) Edge-induced brightness perception studied through the Cornsweet illusion in visual cortex. Soc Neurosci Abstr, 24:1980.

- Ramsden B, Hung C, Roe AW (1998) Organization and circuitry of illusory contour domains in V1 and V2 of the macaque. Soc Neurosci Abstr, 24:1506.
- Vnek N, Ramsden B, Hung C, Goldman-Rakic PS, Roe AW (1998) Optical imaging of visual cortical organization in the awake, behaving primate. Soc Neurosci Abstr, 24:1137.
- Roe AW (1997) Multiple visual representation and integration in primate visual cortex. Optical imaging workshop. Second Congress of the Chinese Society for Neuroscience, Xian, People's Republic of China.
- Roe AW (1997) Sensory cortical specification as revealed by cross-modal plasticity in ferrets. Winter Conference on Current Issues in Developmental Psychobiology, Anguilla.
- Pettigrew JD, Roe AW, Fritsches K (1996) Dynamic ocular dominance organization in species normally lacking in ocular dominance. Soc Neurosci Abstr 22:645.
- Roe AW, Ghose GM, Smith EL, Chino YM, Ts'o DY (1995) Alterations in striate cortical ocular dominance columns in anisometric amblyopia. Soc Neurosci Abstr, 21:1752.
- Roe AW, Ts'o DY (1994) Relationships between topographic maps in V1 and V2 revealed by optical imaging with spot stimuli. Soc Neurosci Abstr 20:840.
- Landisman CE, Roe AW, Ts'o DY (1994) The relationship of receptive field coverage to functional modules in primate V1. Soc Neurosci Abstr, 20:1477.
- Ghose GM, Roe AW, Ts'o DY (1994) Features of functional organization within primate V4. Soc Neurosci Abstr 20:840.
- Roe AW, Ts'o DY (1994) Optical imaging of mammalian visual cortex reveals specific functional organizations for color, form, and disparity processing. Houston Conference on Biomedical Engineering Research, Houston, TX.
- Roe AW, Kaas JH, Recanzone GG, Hahm J, Montague PR (1994) New views of cerebral cortical topography: discontinuities, non-topographies, and time-varying topographies. Winter Conference on Brain Research, Snowbird, Utah.
- Roe AW (1994) Functional organization and connectivity of Area V2 in the primate. Salk Institute Symposium, La Jolla, CA.
- Roe AW, Ts'o DY (1993) Visual field representation and functional compartments within single V2 stripes. Soc Neurosci Abstr 19:1499.
- Ts'o DY, Roe AW, Shey J (1993) Functional connectivity within V1 and V2: patterns and dynamics. Soc Neurosci Abstr 19:1499.
- Roe AW, Ts'o DY (1993) Visual field representation within primate V2 and its relationship to the functionally distinct stripes. Invest Ophthalmol Vis Sci Suppl 34:812.
- Ts'o DY, Wilson M, Roe AW, Schwartz A, Swindale N (1993) Greater than the sum: the role of neuronal cooperativity and ensemble behavior. Winter Conference on Brain Research, January 23-30, 1993, Whistler, Canada.
- Roe AW, Ts'o DY (1992) Functional connectivity between V1 and V2 in the primate. Soc Neurosci Abstr 18:11.
- Roe AW, Hahm J, Sur M (1991) Experimentally induced establishment of visual topography in auditory thalamus. Soc. Neurosci. Abstr. 17:898.
- Roe AW, Pallas SL, Kwon YH, Sur M (1990) Visually innervated auditory cortex in ferrets generates visual response properties similar to those in normal visual cortex. Soc. Neurosci. Abstr., 16:984.
- Roe AW, Garraghty PE, Chino YM, Sur M (1990) Eccentricity-dependent effects of esotropia on the development of X retinogeniculate axons in cats. Invest. Ophthalmol. Vis. Sci. Suppl., 31:7.

- Hahm J, Roe AW, Pallas S, Sur M (1989) Physiologically identified retinogeniculate X axons in ferrets with neonatal ablation of visual cortex: sizes of terminal arbors depend only partly on target size. Soc. Neurosci. Abstr. 15:495.
- Roe AW, Garraghty PE, Shatz CJ, Sretavan DW, Sur M (1989) Developmental interactions that regulate the size and location of retinogeniculate X and Y axon arbors. Invest. Ophthalm. Vis. Sci. Suppl. 30(3): 296.
- Kwon YH, Esguerra M, Roe AW, Sur M (1988) Responses of X and Y cells in the cat lateral geniculate nucleus to moving bars and edges. Soc. Neurosci. Abstr. 14:39.
- Pallas SL, Roe AW, Sur M (1988) Retinal projections induced into auditory thalamus in ferrets: changes in inputs and outputs of primary auditory cortex. Soc. Neurosci. Abstr. 14:460.
- Roe AW, Pallas SL, Hahm J, Kwon YH, Sur M (1988) Retinal projections induced into auditory thalamus in ferrets: visual topography in primary auditory cortex. Soc. Neurosci. Abstr. 14:460.
- Sur M, Roe AW, Pallas SL (1988) Cross-modal plasticity in development: visual inputs induced into auditory thalamus and cortex illustrate principles of organization of sensory systems. International Conference on Neurobiology of Sensory Systems, Goa, India, Sept. 1988.
- Garraghty PE, Roe AW, Chino YM, Sur M (1988) Convergent strabismus alters the morphology of physiologically identified retinogeniculate axons in cats. Invest. Ophthalm. Vis. Sci. Suppl. 29:115.
- Esguerra M, Roe AW, Sur M (1987) Morphology of identified ferret LGN neurons characterized *in vivo* and *in vitro*. Soc. Neurosci. Abstr. 13:1434.
- Roe AW, Garraghty PE, Sur M (1987) Retinotectal W-cell plasticity: experimentally induced retinal projections to auditory thalamus in ferrets. Soc. Neurosci. Abstr. 13:1023.
- Roe AW, Garraghty PE, Sur M (1987) Experimentally induced retinal projections to auditory thalamus in ferrets. Gordon Research Conference on Neuronal Plasticity, July 20-24, 1987, Brewster Academy NH.
- Sur M, Roe AW, Garraghty PE (1987) Evidence for early specificity of the retinogeniculate X cell pathway. Soc. Neurosci. Abstr. 13:590.
- Roe AW, Garraghty PE, Sur M (1986) Terminal morphology and laminar distribution of physiologically identified ferret retinogeniculate axons. Soc. Neurosci. Abstr. 12:9.
- White WF, O'Gorman S, Wang A (1986) Three-dimensional distribution and relationships of quench-corrected benzodiazepine receptor subtypes in mouse CNS. Soc. Neurosci. Abstr. 12:1136.
- White WF, Wang A (1985) Three-dimensional autoradiographic localization of quench-corrected glycine receptor specific activity in the mouse brain using <sup>3</sup>H-strychnine. Soc. Neurosci. Abstr. 11:1055.

#### INVITED TALKS

- 11/08 Invited symposium discussant on Neural Protheses. Soc NS Meeting, Washington DC.
- 11/08 Invited symposium speaker on Neural Noise. Soc NS Meeting, Washington DC.
- 10/08 Seminar speaker. Tsinghua Univ, Beijing, China.
- 4/08 Seminar speaker. MIT, Cambridge, MA.
- 4/08 Symposium speaker. Univ Chicago, Chicago IL.
- 3/08 Discussant. Lab Life. Vanderbilt University, Nashville, TN.
- 3/08 Seminar speaker. Chinese Academy of Sciences, Beijing, China.
- 3/08 Seminar speaker. Beijing Normal University, Beijing, China.
- 12/07 Seminar speaker. Univ Indiana, Bloomington IL.
- 11/07 Seminar speaker. Institute of Neuroscience, Shanghai, China.
- 10/07 Symposium organizer and speaker. Ann Soc Neuroscience Meeting, San Diego, CA.
- 9/07 Seminar speaker. Univ Houston, Houston, TX.
- 6/07 Office of Animal Welfare speaker. Use of neuromuscular blocking agents in anesthetized animals. Vanderbilt Univ, Nashville, TN.
- 12/06 Seminar speaker. Vanderbilt Univ, Nashville, TN.

12/06 Seminar speaker. Univ Rochester, Rochester, NY.

11/06 Keynote speaker. NIH/NICHD DIR retreat. St. Michaels, Maryland.

10/06 Symposium speaker. Symposium on Frontiers in Neuroimaging, Birmingham, AL.

6/06 Seminar speaker. CNRS, Institut de Neurobiologie, Paris, France.

6/06 Seminar speaker. Semmelweis University, Hungarian Acad Sciences, Budapest, Hungary.

5/06 Seminar speaker. U Washington, St Louis, MO.

4/06 Seminar speaker. National Yang-Ming University, Taipei, Taiwan.

4/06 Seminar speaker. National Taiwan University, Taipei, Taiwan.

2/06 Seminar speaker. U Alabama at Birmingham, Birmingham, AL.

11/05 Seminar speaker. Northwestern Univ, Chicago IL.

11/05 Seminar speaker. U Chicago, Chicago IL.

5/05 Seminar speaker. UCSF, San Francisco, CA.

11/04 Seminar speaker. Fudan University School of Medicine, Shanghai, China.

8/04 Seminar speaker. Brain Sciences Institute, RIKEN Institute, Tokyo, Japan.

4/04 Seminar speaker. Johns Hopkins University, Mind/Brain Institute, Baltimore, MD.

11/03 Seminar speaker. Vanderbilt University, Ophthalmology, Nashville, TN.

9/03 Seminar speaker. Univ of British Columbia, Vancouver, BC, Canada.

4/03 Seminar speaker. University of Pennsylvania, Philadelphia, PA.

3/03 Seminar speaker. Rutgers University, Newark, NJ.

11/02 Seminar speaker. MIT, Cambridge, MA.

7/02 Seminar speaker. CNRS, Ctr Recherche Cerveau Cog, Toulouse, France.

7/02 Seminar speaker. Inserm, Lyon, France.

4/02 Seminar speaker. Vanderbilt University, Psychology, Nashville, TN.

4/02 Seminar speaker. Univ California at Davis, Davis, CA.

3/02 Panelist. Renaissance Weekend, Hilton Head, SC.

2/02 Seminar speaker. University of Texas, Houston, TX.

10/01 Seminar speaker. New York University, New York, NY.

6/01 Seminar speaker. Max Planck Institute, Tuebingen, Germany.

6/01 German-American Frontiers organizer on "Learning and Memory". Bad Hamborg, Germany.

5/01 Seminar speaker. Yale Univ, Bioimaging Seminar Series. New Haven, CT.

3/01 Seminar speaker. Columbia University, Biology. New York, NY.

3/01 Seminar speaker. Vanderbilt University, Psychology. Nashville, TN.

11/00 Seminar speaker. Yale Univ, Psychology. New Haven, CT.

8/00 Seminar speaker. Yale Univ School of Medicine, Neurology. New Haven, CT.

7/00 Seminar speaker. Univ. Alicante, Institute of Neuroscience, Alicante, Spain.

6/00 German-American Frontiers organizer on "Neural Prostheses". Irvine, CA.

4/00 Seminar speaker. Pierce Laboratories, Yale University, New Haven, CT.

9/99 Symposium speaker. Packard Foundation Fellows Meeting. Monterey, CA.

7/99 Symposium speaker. IBRO. Jerusalem, Israel..

6/99 Seminar speaker. Ruhr University Bochum University Medical School, Bochum, Germany.

3/99 Seminar speaker. Albert Einstein University, New York, NY.

2/99 Retreat organizer and speaker. Yale University Interdepartmental Neuroscience Retreat. Woods Hole, MA.

2/99 Symposium speaker. Symposium on Advances in Understanding the Mammalian Visual Cortex. Canberra, Australia.

1/99 Symposium speaker. Winter Conference on Current Issues in Developmental Psychobiology. Georgetown, Grenada.

12/98 Seminar speaker. Yale Univ School of Medicine, Neuroimaging. New Haven, CT.

11/98 Seminar speaker. Yale Univ School of Medicine, Neurosurgery. New Haven, CT.

5/98 Seminar speaker. Albert Einstein University, New York, NY.

2/98 Seminar speaker. Boston University, Boston, MA.

10/97 Seminar speaker, workshop organizer. 4th Military Univ, Neurosciences Inst, Xian, China.

10/97 Seminar speaker. Shanghai Medical Univ, State Key Lab. of Neuroscience, Shanghai, China.

6/97 Seminar speaker. Taiwan National University, Psychology Dept. Taipei, Taiwan.

- 6/97 Seminar speaker. Tzu Chi Medical College. Hualian, Taiwan.  
6/97 Seminar speaker. Academia Sinica, Biomedical Science Institute. Taipei, Taiwan.  
5/97 Seminar speaker. Yale University School of Medicine, Physiology. New Haven, CT.  
5/97 Seminar speaker. Univ Connecticut, Dept of Anatomy. Storrs, CT.  
4/97 Seminar speaker. Yale University, Psychology/Computer Science. New Haven, CT.  
2/97 Seminar speaker. Yale INP Retreat. Woods Hole, MA.  
8/96 Seminar speaker. Univ of Sydney, Dept of Anatomy & Histology. Sydney, Australia.  
8/96 Seminar speaker. Univ of Melbourne, Dept of Neuroscience. Melbourne, Australia.  
3/96 Seminar speaker. Univ Queensland, VisionTouch&Hearing ResCtr.Brisbane, Australia.  
6/95 Seminar speaker. Johns Hopkins Univ, Krieger Mind/Brain Institute. Baltimore, MD.  
5/95 Seminar speaker. Yale University, Section in Neurobiology. New Haven, CT.  
3/95 Seminar speaker. The Salk Institute. La Jolla, CA.  
3/95 Seminar speaker. Dept of Psychology, Vanderbilt University. Nashville, TN.  
9/94 Workshop lecturer. Neurosciences Institute Summer Atelier in Theoretical Neurobiology. The Neurosciences Institute. La Jolla, CA.  
5/94 Seminar speaker. Baylor College of Medicine, Houston, TX.  
1/94 Symposium lecturer. Salk Institute Postdoctoral Symposium. The Salk Institute, La Jolla, CA.  
1/94 Workshop organizer and speaker. Winter Conference on Brain Research, Snowbird, Utah.  
2/93 Seminar speaker. University of British Columbia, Vancouver, Canada.  
6/90 Seminar speaker. Rockefeller University, New York, NY.  
3/89 Seminar speaker. Eaton Peabody Labs, Massachusetts General Hospital, Boston, MA.

#### AWARDS and HONORS

- 2008 Vanderbilt University International Grant "Exploring potential for conducting nonhuman primate brain research in China"  
2007 Vanderbilt University College of Arts & Sciences Travel Award  
2005-2007 Vanderbilt Discovery Grant: "Optical Imaging of Short-term Working Memory in Prefrontal Cortex of the Macaque Monkey"  
2004 Vanderbilt University College of Arts & Sciences Travel Award  
1998-2003 David and Lucile Packard Foundation Fellowship  
1997-1999 Alfred P. Sloan Research Fellowship.  
1996-1999 Whitehall Foundation Research Fellowship  
1991-1994 NIH NRSA Post-doctoral Fellowship, Rockefeller Univ and Baylor College of Medicine.  
1993 Winter Conference on Brain Research Fellowship Award, Whistler, Canada.  
1992 Center for Visual Science Symposium Travel Fellowship, Rochester, NY.  
1989-1991 Whittaker Health Sciences Fellowship, M.I.T.  
1986-1989 NIGMS Graduate Traineeship, M.I.T.  
1987 Gordon Research Conference Scholarship.  
1985-1986 NIGMS Graduate Traineeship, Yale University.  
1984-1986 NIGMS Graduate Traineeship, Harvard University.

#### ACADEMIC SERVICE

- 2007 - present Editor, Frontiers in Neuroscience.  
Jun 4-5, 2007 NIH/NIMH Board of Scientific Counselors review committee (ad hoc).  
10/06 NIH/NICHHD Site visit member.  
Feb 3, 2006 NIH special review committee  
2006 Optical Soc America abstract review committee  
2005 NIH special review committee  
2003 – present Vision Sciences Society review committee  
2003 - present Assoc Editor, Neuroscience Letters  
2002 NSF Cognitive Neuroscience Study Section, ad hoc  
2000-2005 NIMH IFCN-8 (COG) Study Section, member  
1999-2001 German-American Frontiers of Science Symposia (Organizer and Participant)

9/96 – present Ad hoc reviewer for J Neuroscience, J Neurophysiology, Neuroimage, Vision Research, PNAS, Current Biology, Cerebral Cortex, NIH, NSF, American Journal of Physiology, BMC Journals

### FUNDING

Pending NIH/NEI RO1 EY11744 “Inter-areal Cooperativity During Perception of Visual Contours and Surfaces”, role: PI.

9/09-8/13 NIH/NINDS RO1 NS044375 “Optical imaging of tactile information in SI cortex”, role: PI (\$1,798,357).

9/08-8/09 NIH/NINDS R56 NS052821 “Optical imaging of SI cortex in the awake primate” (\$329,000), role: PI.

9/06-8/08 NIH/NIDA R21 DA023002 “Fast optical imaging of cortical signals in the behaving primate”(\$275,000), role: PI.

9/06-8/09 NIH/NINDS R03 NS059061 “Perceptual circuits in somatosensory cortices” (\$30,000), role: PI.

4/06-3/08 NIH/NINDS R21 NS052821 “Optical imaging of SI cortex in the awake primate” (\$275,000), role: PI.

5/05 – 6/07 Vanderbilt Discovery Grant “Optical imaging of short-term working memory in prefrontal cortex of the Macaque monkey” (\$50,000), role: PI.

9/03 – 8/08 NIH/NINDS RO1 NS044375 “Optical imaging of tactile information in SI cortex” (\$2,043,750 total; \$1,250,000 direct), role: PI.

3/02 – 2/07 NIH/NEI RO1 EY11744 “Inter-areal Cooperativity During Perception of Visual Contours and Surfaces” (\$1,274,996; \$819,823 direct), role: PI.

1997-2001 NIH RO1 EY11744 “Inter-areal Processing of Visual Contours” (\$947,894 total; \$585,941 direct), role: PI.

1998-2003 David and Lucile Packard Foundation Fellowship (\$625,000). "High Spatial Resolution Imaging of Perception and Cognition", role: PI.

1997-1999 Alfred P. Sloan Research Fellowship (\$60,000). “Modular organization of mammalian sensory neocortex”, role: PI.

1996-1999 Whitehall Foundation Research Fellowship (\$150,000). "Higher Order Visual Contour Processing in Area V2 of the Primate, role: PI.

### SOCIETIES

Society for Neuroscience  
Women in Neuroscience  
Association for Advancement of Science  
Cognitive Neuroscience Society  
American Physiological Society  
Middle Tennessee Chapter Society for Neuroscience  
Vanderbilt Kennedy Center Member  
American Psychological Society  
Optical Society of America  
Middle TN Chapter Soc for Neuroscience

### TEACHING

Spring 2009 Lecturer. Systems and Computational Neuroscience. Tsinghua University, Beijing, China.

Spring 2009 Course director and lecturer. Psychology 236: The Visual Sytem. Vanderbilt University, Nashville, TN.

Fall 2008 Guest lecturer. BME 321: Optical Diagnosis (Mahadeven-Jansen). Vanderbilt University, Nashville, TN.

Fall 2008 Guest lecturer. Psychology 300. Neuroethics (Palmeri, Levin). Vanderbilt University, Nashville, TN.

Fall 2008 Course director and sole lecturer. Psychology 274: Neuroanatomy. Vanderbilt University, Nashville, TN.

Spring 2008 Sabbatical

- Fall 2007 Course director and sole lecturer. Psychology 274: Neuroanatomy. Vanderbilt University, Nashville, TN.
- Fall 2007 Guest lecturer. Psychology 300: Neuroethics. Vanderbilt University, Nashville, TN 37212.
- Spring 2007 Guest lecturer. Psychology 232: Mind and Brain. Vanderbilt University, Nashville, TN 37212.
- Spring 2007 Course director and lecturer. Psychology 236: The Visual System. Vanderbilt University, Nashville, TN.
- Fall 2006 Roe AW (2006) Optical imaging in Awake and Anesthetized Primates. Society for Neuroscience Short Course #2: Visualizing Large Scale Patterns of Activity in the Brain: Optical and Electrical Signals. Soc Neurosci Abstract, Atlanta, GA.
- Fall 2006 Course director and sole lecturer. Psychology 274: Neuroanatomy. Vanderbilt University, Nashville, TN.
- Spring 2006 Guest lecturer. Psychology 232: Mind and Brain. Vanderbilt University, Nashville, TN 37212.
- Spring 2006 Course director and lecturer. Psychology 236: The Visual System. Vanderbilt University, Nashville, TN.
- Fall 2005 Course director and sole lecturer. Psychology 274: Neuroanatomy. Vanderbilt University, Nashville, TN.
- Fall 2005 Roe AW (2006) Optical imaging in Awake and Anesthetized Primates. Society for Neuroscience Short Course #2: Visualizing Large Scale Patterns of Activity in the Brain: Optical and Electrical Signals. Soc Neurosci Abstract, Atlanta, GA.
- Spring 2005 Course co-director and lecturer. Psychology 236: The Visual System. Vanderbilt University, Nashville, TN.
- 9/04 Guest lecturer in Neuro 340: Integrative and Systems Neuroscience. Vanderbilt University, Nashville, TN.
- 10/04 Short Course II. Visualizing Large Scale Patterns of Activity in the Brain: Optical and Electrical Signals. Soc Neurosci Meeting, San Diego, CA.
- Fall 2004 Course director and sole lecturer. Psychology 234: Laboratory in Behavioral Neuroscience. Vanderbilt University, Nashville, TN.
- 2/04 Guest lecturer in Psychology 236: The Visual System. Vanderbilt University, Nashville, TN.
- 11/03 Guest lecturer in Psychology 258: Animal behavior and evolution. Vanderbilt University, Nashville, TN.
- Spring 2003 Lecturer and lab instructor in Neurobiology 500b: Structural and functional organization of the human nervous system. Yale University School of Medicine, New Haven, CT.
- 6/02 – 6/03 Spike Processing Journal Club (with Dr. Mark Laubach)
- Spring 2002 Lecturer and lab instructor in Neurobiology 500b: Structural and functional organization of the human nervous system. Yale University School of Medicine, New Haven, CT.
- 9/96 – 1/02 Vision and Visual Development Journal Club (with Dr. Nigel Daw, Dr. Ning Tian, Dr. Maria Donoghue-Velleca)
- Fall 2001 Co-lecturer with Dr. Charles Bruce in Cellular and Network Dynamics of Sensory and Motor Functions. Yale University School of Medicine, New Haven, CT.
- Spring 2001 Lecturer and lab instructor in Neurobiology 500b: Structural and functional organization of the human nervous system. Yale University School of Medicine, New Haven, CT.
- Spring 2000 Lecturer and lab instructor in Neurobiology 500b: Structural and functional organization of the human nervous system. Yale University School of Medicine, New Haven, CT.
- Spring 2000 Lecturer in C&M Physiology 610b: Neurophysiologic Methods. Yale University School of Medicine, New Haven, CT.
- Fall 1999 Co-lecturer with Dr. David McCormick in Neurobiology 508: Vision: Cellular and Network Dynamics of the Cerebral Cortex. Yale University School of Medicine, New Haven, CT.
- 4/99 Guest lecturer in Graduate Seminar Series. Albert Einstein College of Medicine, New York, NY.
- Spring 1999 Lecturer and lab instructor in Neurobiology 500b: Structural and functional organization of the human nervous system. Yale University School of Medicine, New Haven, CT.
- Spring 1998 Lecturer and lab instructor in Neurobiology 500b: Structural and functional organization of the human nervous system. Yale University School of Medicine, New Haven, CT.
- Fall 1997 Lecturer in Cerebral Cortex and Principles of Neuroscience, Yale University School of Medicine, New Haven, CT.

Fall 1989 Teaching Assistant for Introductory Psychology (Course instructor: Dr. Jeremy Wolfe), M.I.T., Cambridge, MA.

#### ACADEMIC SUPERVISION (current)

Undergrads: Soo Ryum Yang (summer 2008 - present)  
Grads: Peter Kaskan (spring 2004 - present)  
Reuben Fan (fall 2007 - present)  
Jonathan Cayce (fall 2007 - present, with Drs. Anita Mahadevan-Jansen and Duco Jansen)  
Grad Thesis committees: Jamie Reed, Christina Cerceovich, Roan Marion, Peiyan Wong, Jejoong Kim  
Undergrad honors thesis committee: Kathryn Elise Ferguson  
Postdocs: Robert Friedman (9/02 – present)  
Gang Chen (6/05 – present)  
Hisashi Tanigawa (9/06 – present)  
Technicians: Yan Yan Chu (3/06 – present)

#### ACADEMIC SUPERVISION (past)

Undergrads: Bikram Chatterje, Yale undergrad (2002-2003)  
Alison Slanina, Vanderbilt undergrad (fall 2003, spring 2004)  
Chaula Mehta, Vanderbilt undergrad (spring, fall 2004)  
Xinyu Li, Wash Univ undergrad (summer 2004)  
Irene Kwong, Vanderbilt undergrad (spring 2004-Spring 2005)  
Jeremy Winberry (spring 2005 – summer 2007)  
Amy Ly, Vanderbilt undergrad (Spring 2005)  
Matt Baker, Vanderbilt undergrad (Spring 2005)  
Kristof Giber, Hungarian Univ undergrad (Summer 2005)  
Lillian Gu, Vanderbilt undergrad (fall 2005 - present)  
Sheng-bo Zhu, Georgia Tech undergrad (summer 2007)  
Taylor Sewell, Vanderbilt undergrad (2006-2008)  
April Carr, Vanderbilt undergrad ( spring 2009)  
Grads: **Chou P. Hung, Ph.D. Yale Neurobiology May 02 (1997 – 2002, postdoc at MIT, now Assistant Prof at YangMing University, Taipei, Taiwan)**  
Yongsheng Ma, M.A. Univ New Haven Computer Science (May 2002)  
Barbara Dillenburger (9/03 – 8/05, PhD; now Res Assoc at Vanderbilt Imaging Institute)  
Min Hui (Vanderbilt) (fall 2005 – spring 2007, MA)  
Shen Cao (Vanderbilt) (fall 2005 – spring 2007, MA)  
Peter Kaskan (Vanderbilt) (fall 2004 – spring 2008, PhD; now postdoc with Dr. Jon Kaas)  
Reuben Fan (Vanderbilt) (fall 2007 – present, PhD)  
Undergrad honors thesis:  
Meaghan Patten  
Grad committees: Matt Franowicz, prelim committee (fall 1996)  
Ashesh Mehta (Albert Einstein University), thesis committee (1996-1998)  
Joshua Atkins, rotation (summer 1997)  
Haiyan Tang, rotation, prelim committee (fall 1997, spring/fall 1999)  
Nenad Sestan, prelim committee (spring 1998)  
Emily Hsu, rotation (1999-2000)  
Matt Colonnese, thesis committee (1999 - 2001)  
Michael Kraus, rotation (fall 1999), thesis committee  
Matthew Ua Croadlhoalich, rotation (9/01 – 12/01)  
Andrea Hastentaub, prelim committee (3/02 – 8/02)  
Douglas George Walled, MD summer student (summer 2002, summer 2003)  
Xin Huang (Brown University), thesis committee (summer 2002)  
Anuraag Sarangi (Vanderbilt), rotation (spring 2005)  
Lu Li (Vanderbilt), thesis committee (graduated spring 2006)  
Jamie Reed, thesis committee

Ilya Khaytin, thesis committee  
Mark Burish, thesis committee  
Peiyan Wang, thesis committee  
Roan Marion, prelim committee (fall 2007)  
Liz Stringer, prelim committee (fall 2007)  
Christina Cerkevich, thesis committee  
Jejoong Kim, thesis committee  
Leslie Dowell, prelim committee (fall 2008)  
Laurie Lemons, prelim committee (fall 2008)  
Postdocs: **Benjamin Ramsden (8/97 – 6/02, now Assistant Prof at Univ West Virginia)**  
Norbert Vnek (1/98 – 2/99)  
**Barbara Heider (2/00 – 12/02, now Research Associate at Rutgers Univ)**  
Luoxiu Huang (7/03 – 3/04)  
Eser Ercil (6/04 – 3/05)  
**Limin Chen (9/98 – 6/06, now Assistant Prof at Vanderbilt Med Sch Dept Radiology)**  
**Barbara Dillenburger (9/05–12/07, now Res Assoc at Vanderbilt Imaging Institute)**  
**Haidong Lu (9/02-5/08, now Asst Prof at Institute of Neuroscience, Shanghai, China)**  
Technicians: Francine Healy (11/96 – 8/03)  
Mary Varghese (1/05 – 1/07)  
Programmers: Neil Guo (summer 1998)  
Yichen Xie (fall 1998)  
Kaifeng Zhou (spring/summer 2002)  
Yongsheng Ma (6/02 – 12/05)

#### COMMITTEES

**Vanderbilt Undergrad Applicant Honor Scholarship Reviewer Fall 2008**  
**Vanderbilt Institutional Animal Care and Use Committee Fall 2008-Spring 2011**  
**Vanderbilt Dept Psychology Faculty Search Committee Chair Fall 2008**  
Vanderbilt Undergrad Applicant Honor Scholarship Reviewer Spring 2007  
Vanderbilt Psychology Department promotion review committees  
Vanderbilt Neuroscience Curriculum Committee Spring 2006-2008  
Vanderbilt Kennedy Center Lecture Selection Committee Jan 2006  
**Vanderbilt Neuroscience Steering Committee 2005-present**  
Vanderbilt Vision Research Center Animal Care Module Director 2005-present  
Vanderbilt Junior Adhoc Review Committee Spring 2005  
**Vanderbilt AXLE Curriculum Implementation Committee 2004-present**  
Vanderbilt Graduate Faculty Delegate Assembly 2004 - 2006  
Yale Animal User's Committee 2002-2003  
Yale Club Neurobiology Organizer 2000-2001 (monthly evening seminar series)  
Yale Neuroscience Retreat Organizer 1998  
Yale Faculty Computing Committee 1997-99

#### EXTRA CREDIT

Wine tasting  
Organizer for American Association for Chinese Studies (AACCS) Conference October 21-23, 2005