## UNIVERSITY OF PENNSYLVANIA - SCHOOL OF MEDICINE Curriculum Vitae

Date: March 30, 2022

## Geoffrey K Aguirre, M.D., Ph.D.

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## Narrative description:

I am a Professor of Neurology at the University of Pennsylvania. My area of clinical specialty is Behavioral Neurology, which encompasses disorders of higher-level cognitive function. My scientific work is in the area of translational vision science. I relate human visual perception to quantitative measurements of the structure and function of the visual pathway. Magnetic resonance imaging (MRI) is an important technique in my studies, often coupled with retinal imaging and psychophysics. In many cases, projects in my lab begin with a methodological advance, which is used to understand normative visual function, and then applied to patients with neurological or ophthalmologic disease. I am additionally the Associate Director of the Center for Neuroscience and Society at the University of Pennsylvania, with a focus upon the use and misuse of brain imaging data. I am active in career development for physician-scientist trainees, and serve as the Associate Director of the Neurology Residency program at the Hospital of the University of Pennsylvania.

Office Address: 3 West Gates

Hospital of the University of Pennsylvania

Philadelphia, PA 19104-4283

Education:

1988-92 B.A. Princeton University (Politics)

Thesis: Congressional control of NIH funding priorities during the AIDS

crisis

1992-00 M.D. University of Pennsylvania

1993-98 Ph.D. University of Pennsylvania (Neuroscience)

Thesis: Neural components of topographical orientation

Postgraduate Training and Fellowship Appointments:

2000-01 Intern in Medicine, Pennsylvania Hospital, Philadelphia

2001-04 Resident in Neurology, Hosp. of the Univ of Pennsylvania, Philadelphia

#### Faculty Appointments:

2004-2013 Assistant Professor of Neurology, Department of Neurology

University of Pennsylvania School of Medicine

2013-2021 Associate Professor of Neurology, Department of Neurology

University of Pennsylvania School of Medicine

2021-present Professor of Neurology, Department of Neurology

University of Pennsylvania School of Medicine

#### **University Committee Appointments:**

2016-2019 Social Responsibility Advisory Committee (SRAC) which advises the

University Trustees and Trustee Subcommittee on Proxy Voting

2020-Present Member, Senate Committee on Academic Freedom and Responsibility

(SCAFR)

#### **Specialty Certification**:

2005-present American Board of Neurology

Licensure: Pennsylvania

## Awards, Honors and Membership in Honorary and National Societies:

2020	Recipient of the Research to Prevent Blindness / Lions Clubs International Foundation
	Low Vision Research Award

- Elected as a Fellow of the Optical Society of America
- 2018 Resident's Award for Excellence in Teaching
- 2013 Elected as a Fellow of the Philadelphia College of Physicians
- Elected as a Fellow of the the American Neurological Association
- Appointed Senior Consultant to the MacArthur Foundation Research Network on Law and Neuroscience
- 2008 Member of the Neuroimaging Steering Committee of the Hastings Center for Bioethics (2008-2014)
- Samuel Zeritsky award for excellence in research (Univ. of Penn)
- Penn Pearls award for excellence in medical student education (Univ. of Penn)
- 2001 Intern of the Year (Pennsylvania Hospital)
- Thomas Bond Prize for the best research by a house officer (Pennsylvania Hospital)
- 2000 Eric Corey Raps Memorial Prize for excellence in clinical neurology (Univ. of Penn)
- 1999 World Technology Award Finalist in Health and Medicine
- Louis B. Flexner prize for the best dissertation research in the neurosciences (Univ. of Penn)
- 1998 G. Milton Shy Award for the best essay in clinical neurology (American Academy of Neurology)

#### Memberships in Professional and Scientific Societies:

National Societies and Organizations (active):

American Neurological Association American Academy of Neurology

Vision Sciences Society — Young Investigator Award committee and presentation review committee (on hiatus for sabbatic leave 2021-2022)

Optical Society of America — Former vice-Chair of the vision technical group and current organizer of the Fall Vision Meeting

Optical Society of America —Member of the Edgar D. Tillyer Award Committee , 2019 - 2021

## National Societies and Organizations (inactive):

Senior Consultant, MacArthur Foundation Research Network on Law and Neuroscience

Organization for Human Brain Mapping

Cognitive Neuroscience Society

Society for Neuroscience

#### Editorial / Board / Review Positions:

2004-2009	Associate Editor, Neuroscience Letters
2009-2012	Editorial Board, NeuroImage
2018-Present	Editorial Board, Journal of Vision
2018-2022	Member, Neuroscience of Basic Visual Processes (NBVP; formerly SPC)
	NIH study section
2022-2024	Chair, Neuroscience of Basic Visual Processes NIH Study Section (July 1,
	2022 - June 30, 2024)
2020	Ad hoc member of the NIMH Board of Scientific Counselors
2020-Present	Member advisory committee, Burroughs Wellcome Fund, Career Awards
	for Medical Scientists

# Major Teaching and Clinical Responsibilities at the University of Pennsylvania and Affiliated Hospitals:

- 1. Attending rounds at the Hospital of the University of Pennsylvania 4-6 weeks/year
- 2. Residents clinic attending 20 sessions / year

## Additional Teaching and Administrative Roles at the University of Pennsylvania:

- 1. Member Neuroscience Graduate Group
- 2. Member Psychology Graduate Group
- 3. Associate Director of the Center for Neuroscience and Society
- 4. Associate Director of the Neurology Residency Program

- 5. Vision Research Center Executive Committee and director of the Scientific Transparency Core
- 6. Lecturer in the annual Neurology Board review course (R. Price, organizer)
- 7. Lecturer in the Brain and Behavior medical school course

Pennsylvania.

8. Member of the Department of Neurology Committee on Appointments and Promotions

## <u>Lectures by Invitation</u>: (Please list only those in the past 5 years. \*upcoming)

<ul> <li>Jan, 2022 "Human melanopsin function", Grand Rounds, University of Illinois Chicago.</li> <li>May, 2021 "What to expect when you are expecting an experiment", Symposium on Open Science, Vision Sciences Society Annual, Virtual Meeting.</li> <li>May, 2021 "Retinotopic mapping as a methodological engine of vision science fMRI", Vision Sciences Society Annual, Virtual Meeting.</li> <li>January, 2021 "Research in Residency", American Physician Scientist Association, Virtual conference</li> <li>July, 2020 "Vision research on the Flywheel platform", Digital Workflow in Imaging Research Symposium, School of Medicine and Munich School of Bioengineering, Munich, Germany (canceled due to Covid-19)</li> <li>June, 2020 "Perceptual, pupil, and visual cortex responses to melanopsin stimulation in humans", Virtual Neurology Grand Rounds, New York University School of Medicine, NY, NY</li> <li>April, 2020 "Perceptual, pupil, and visual cortex responses to melanopsin stimulation in humans", University of Helsinki, Biomedicum Helsinki Seminars, Helsinki, Finland (cancelled due to Covid-19)</li> <li>March, 2020 "Individual differences in visual pathway structure and function". Medical</li> </ul>
<ul> <li>"What to expect when you are expecting an experiment", Symposium on Open Science, Vision Sciences Society Annual, Virtual Meeting.</li> <li>"Retinotopic mapping as a methodological engine of vision science fMRI", Vision Sciences Society Annual, Virtual Meeting.</li> <li>January, 2021 "Research in Residency", American Physician Scientist Association, Virtual conference</li> <li>"Vision research on the Flywheel platform", Digital Workflow in Imaging Research Symposium, School of Medicine and Munich School of Bioengineering, Munich, Germany (canceled due to Covid-19)</li> <li>"Perceptual, pupil, and visual cortex responses to melanopsin stimulation in humans", Virtual Neurology Grand Rounds, New York University School of Medicine, NY, NY</li> <li>"Perceptual, pupil, and visual cortex responses to melanopsin stimulation in humans", University of Helsinki, Biomedicum Helsinki Seminars, Helsinki, Finland (cancelled due to Covid-19)</li> <li>March, 2020 "Individual differences in visual pathway structure and function". Medical</li> </ul>
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Vision Sciences Society Annual, Virtual Meeting.  "Research in Residency", American Physician Scientist Association, Virtual conference  "Vision research on the Flywheel platform", Digital Workflow in Imaging Research Symposium, School of Medicine and Munich School of Bioengineering, Munich, Germany (canceled due to Covid-19)  "Perceptual, pupil, and visual cortex responses to melanopsin stimulation in humans", Virtual Neurology Grand Rounds, New York University School of Medicine, NY, NY  "Perceptual, pupil, and visual cortex responses to melanopsin stimulation in humans", University of Helsinki, Biomedicum Helsinki Seminars, Helsinki, Finland (cancelled due to Covid-19)  March, 2020 "Individual differences in visual pathway structure and function". Medical
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College of Wisconsin's Distinguished Lecture Series, Milwaukee (cancelled
due to Covid-19)
February, 2020 "Perceptual, pupil, and visual cortex responses to melanopsin stimulation in
humans", University of Iowa, Iowa City, Iowa
January, 2020 Invited participant, National Eye Institute Audacious Goals Initiative for
Regenerative Medicine Understanding Human Retina Biology and
Perception Workshop, Bethesda, Maryland
February, 2019 "Perceptual, pupil, and visual cortex responses to melanopsin stimulation in
humans", Emory University, Atlanta.
December, 2018 "Post-retinal structure and function in human blindness", Visual Function
Acquisition and Restoration Workshop, Hebrew University, Jerusalem, Israel.
May, 2018 "Variation in Temporal Stimulus Integration Across Visual Cortex", Invited
Symposium, Vision Sciences Society Annual Meeting, St. Petersburg Florida.
April, 2018 "Neuroscience in the Courtroom", Haverford College, Haverford,

February, 2018 "Scientific aspects of afferent visual dysfunction in neuro-degenerative			
	disease", North American Neuo-Ophthalmologic Society (NANOS) annual meeting, Kailua, Hawaii.		
October 2017	Served as a commentator on the topic of "Protecting Autonomy in the Era of Neural Control" at the Law and STEM Young Scholars Forum, University of		
August, 2017	Pennsylvania "Perceptual, pupil, and visual cortex responses to melanopsin stimulation in		
August, 2017	humans", Institute for Ophthalmic Research, University of Tübingen Medical Centre, Tübingen, Germany		
August, 2017	"Temporal integration of visual information across visual cortex", European		
May, 2017	Conference on Visual Perception (ECVP), Berlin, Germany "Post-retinal structure and function in human blindness", VSS@ARVO		
	invited symposium, The Association for Research in Vision and		
Ai1 2017	Ophthalmology Annual Meeting, Baltimore, MD		
April, 2017	"Scientific aspects of afferent visual dysfunction in neuro-degenerative disease", American Academy of Neurology annual meeting, Boston, MA		
Feb, 2017	"Measuring human melanopsin function", Neurology Grand Rounds, Johns		
100, 2017	Hopkins University, Baltimore, MD		
Feb, 2017	"Measuring human melanopsin function", Neurology Grand Rounds,		
	University of Maryland, Baltimore, MD		
Dec, 2016	"Measuring human melanopsin function", Ophthalmology Grand Rounds,		
	University of Pennsylvania, Philadelphia		
Dec, 2016	"Melanopsin: From the dawn of vision to the fear of light", Philadelphia		
31 2016	Neurological Society, Philadelphia		
Nov, 2016	"Measuring human melanopsin function", Neuroscience Seminar Series, NYU, New York		
Sept, 2016	"Measuring human melanopsin function", NextGenVis Course on		
	Computational Neuroimaging, York University, York UK		
Sept, 2016	"Measuring human melanopsin function", Visual Brain Core seminar series, University of Alabama at Birmingham		
Sept, 2016	"Pre-register, please. Measure with care. Model with math. Replicate, share",		
1 /	Keynote Address, Neuroscience Graduate Group Student Retreat, University		
	of Pennsylvania, Philadelphia		
Feb, 2016	"Measuring human melanopsin function", Department of Ophthalmology		
	and Visual Sciences, University of Illinois at Chicago		
Jan, 2016	"An introduction to fMRI and functional correlation", Doctoral College		
Nov. 2015	"Imaging the Mind" Winter-School, University of Salzburg, Austria		
Nov, 2015	"Measuring human melanopsin function", Ophthalmology Dept., McGill University, Montreal, Canada		
Sept, 2015	"Neuroimaging of the visual system without vision", American Society of		
50pt, 2015	Neurophysiological Monitoring, Fall Meeting, Philadelphia, PA		
June, 2015	Faculty-at-large member for the NINDS/AUPN/ANA/CNS Symposium on		
,	Combining Clinical and Research Careers, Washington, DC		

June, 2015	"Neuroscience for legal decision makers", Illinois Advanced Judicial Academy, <i>Science in the Courtroom</i> , Champaign, IL
May, 2015	"The elusive neuroimaging marker of mild traumatic brain injury", Traumatic Brain Injury Interdisciplinary Symposium, Franklin Institute, Philadelphia, PA
March, 2014	"Neuroimaging 2.0", Hall Center for Law and Health Event/Indiana Health Law Review Symposium: Neuroscience and Law: Injury, Capacity and Illness, Indianapolis, IN
Feb, 2014	"Melanopsin and S-cone responses in the human pupil and brain", Vision Center Annual Retreat, University of Pennsylvania, Philadelphia PA
Feb, 2014	"Neurons to Neuroimaging", MacArthur Foundation Colloquium on Law, Neuroscience and Criminal Justice, Nashville, TN
Nov, 2013	"Measuring Visual Cortex without Vision", Oxford University, Oxford, UK
June, 2013	"Measuring Visual Cortex without Vision", Optical Society of America Fall Vision Meeting, Houston TX
June, 2013	"Inferring neuronal tuning from fMRI: adaptation and pattern information", Advanced fMRI Course, Organization for Human Brain Mapping Annual Meeting, Seattle, Washington
April, 2013	"Measuring Visual Cortex without Vision", Princeton University Neuroimaging Group, Princeton NJ
April, 2013	"Primer of Behavioral Neurology", American Academy of Neurology, New Orleans, LA

<u>Bibliography</u>: (Include only relevant publication categories. While the precise format can be individualized, each entry should contain all authors and inclusive page numbers.)

#### Research Publications, peer reviewed (print or other media):

- 1. JA Detre, DC Alsop, **GK Aguirre**, MR Sperling: Coupling of cortical and thalamic ictal activity in human partial epilepsy: demonstration by functional magnetic resonance imaging. <u>Epilepsia</u> 37(7): 657-61, Jul 1996.
- 2. **GK Aguirre**, JA Detre, DC Alsop, M D'Esposito. (1996). The parahippocampus subserves topographical learning in man. Cerebral Cortex, 6, 823-829.
- 3. LT Zorrilla, **GK Aguirre**, E Zarahn, TD Cannon, M D'Esposito. (1996). Activation of the prefrontal cortex during judgments of recency: a functional MRI study. Neuroreport, 7, 2803-2806.
- 4. **GK Aguirre**, M D'Esposito. (1997). Environmental knowledge is subserved by separable dorsal/ventral neural areas. Journal of Neuroscience, 17, 2512-2518. PMCID: PMC6573507.
- 5. E Zarahn, **GK Aguirre**, M D'Esposito. (1997). Empirical analyses of BOLD fMRI statistics. I. Spatially unsmoothed data collected under null-hypothesis conditions. Neuroimage, 5, 179-197.

- 6. **GK Aguirre**, E Zarahn, M D'Esposito. (1997). Empirical analyses of BOLD fMRI statistics. II. Spatially smoothed data collected under null-hypothesis and experimental conditions. Neuroimage, 5, 199-212.
- 7. M D'Esposito, JA Detre, **GK Aguirre**, M Stallcup, DC Alsop, LJ Tippet, MJ Farah. (1997). A functional MRI study of mental image generation. Neuropsychologia, 35, 725-730.
- 8. M D'Esposito, E Zarahn, **GK Aguirre**, RK Shin, P Auerbach, JA Detre. (1997). The effect of pacing of experimental stimuli on observed functional MRI activity. Neuroimage, 6, 113-121.
- SL Thompson-Schill, M D'Esposito, GK Aguirre, MJ Farah. (1997). Role of left inferior prefrontal cortex in retrieval of semantic knowledge: a reevaluation. Proceedings of the National Academy of Sciences of the United States of America, 94, 14792-14797. PMCID: PMC25116.
- 10. E Zarahn, **GK Aguirre**, M D'Esposito. (1997). A trial-based experimental design for fMRI. Neuroimage, 6, 122-138.
- 11. **GK Aguirre**, E Zarahn, M D'Esposito. (1998). An area within human ventral cortex sensitive to "building" stimuli: evidence and implications. Neuron, 21, 373-383.
- 12. **GK Aguirre**, E Zarahn, M D'Esposito. (1998). The variability of human BOLD hemodynamic responses. NeuroImage, 8, 360-369.
- 13. **GK Aguirre**, E Zarahn, M D'Esposito. (1998). The inferential impact of global signal covariates in functional neuroimaging analyses. NeuroImage, 8, 302-306.
- 14. **GK Aguirre**, E Zarahn, M D'Esposito. (1998). A critique of the use of the Kolmogorov-Smirnov (KS) statistic for the analysis of BOLD fMRI data. Magnetic Resonance in Medicine, 39, 500-505.
- 15. M D'Esposito, **GK Aguirre**, E Zarahn, D Ballard, RK Shin, J Lease. (1998). Functional MRI studies of spatial and nonspatial working memory. Cogn Brain Res, 7, 1-13.
- 16. M D'Esposito, D Ballard, **GK Aguirre**, E Zarahn. (1998). Human prefrontal cortex is not specific for working memory. NeuroImage, 8, 274-282.
- 17. **GK Aguirre**, E Zarahn, M D'Esposito. (1998). Neural components of topographical representation. PNAS USA, 95, 839-846. PMCID: PMC33806.
- 18. JA Detre, L Maccotta, D King, DC Alsop, G Glosser, M D'Esposito, E Zarahn, **GK Aguirre**, JA French. (1998). Functional MRI lateralization of memory in temporal lobe epilepsy. Neurology, 50, 926-932.
- 19. MJ Farah, **GK Aguirre**. (1999). Imaging visual recognition: PET and fMRI studies of the functional anatomy of human visual recognition. Trends in Cognitive Sciences, 3, 179-186.

- 20. SL Thompson-Schill, **GK Aguirre**, M D'Esposito, MJ Farah. (1999). A neural basis for category and modality specificity of semantic knowledge. Neuropsychologia, 37, 671-676.
- 21. **GK Aguirre**, R Singh, M D'Esposito. (1999). Stimulus inversion and the responses of face and object-sensitive cortical areas. NeuroReport, 10, 189-194.
- 22. E Zarahn, **GK Aguirre**, M D'Esposito. (1999). Temporal isolation of the neural substrates of spatial mnemonic processing with fMRI. Cognitive Brain Research, 7, 255-268.
- 23. M D'Esposito, E Zarahn, **GK Aguirre**, B Rypma. (1999). The effect of normal aging on coupling of neural activity to the BOLD hemodynamic response. NeuroImage, 10, 6-14.
- 24. **GK Aguirre**, M D'Esposito. (1999). Topographical disorientation: a synthesis and taxonomy. Brain, 122, 1613-1628.
- 25. E Zarahn, **GK Aguirre**, M D'Esposito. (2000). Replication and further studies of neural mechanisms of spatial mnemonic processing in humans. Cogn Brain Res, 9, 1-17.
- 26. M D'Esposito, D Ballard, E Zarahn, **GK Aguirre**. (2000). The Role of Prefrontal Cortex in Sensory Memory and Motor Preparation: An Event-Related fMRI Study. NeuroImage, 11, 400-408.
- 27. DY Kimberg, **GK Aguirre**, M D'Esposito. (2000). Modulation of task-related neural activity in task-switching: an fMRI study. Cognitive Brain Research, 10, 189-196.
- 28. DY Kimberg, **GK Aguirre**, J Lease, M D'Esposito. (2001). Cortical effects of bromocriptine, a D-2 dopamine receptor agonist, in human subjects, revealed by fMRI. Human Brain Mapping, 12, 246-257. PMCID: PMC6871975.
- 29. **GK Aguirre**, JA Detre, E Zarahn, D C Alsop. (2002). Experimental design and the relative sensitivity of BOLD and perfusion fMRI. NeuroImage, 15, 488-500.
- 30. TA Polk, M Stallcup, **GK Aguirre**, DC Alsop, M D'Esposito, JA Detre,MJ Farah. (2002). Neural specialization for letter recognition. Journal of Cognitive Neuroscience, 14, 145-159.
- 31. SM Schaefer, DC Jackson, RJ Davidson, **GK Aguirre**, DY Kimberg, SL Thompson-Schill. (2002). Modulation of amygdala activity by conscious maintenance of negative emotion. Journal of Cognitive Neuroscience. 14, 913-921.
- 32. **GK Aguirre**, JM Ellenbogen, J Pollard, ED Stolzenberg, SL Galetta. (2002). Amyloid angiopathy. Neurology, 59, 1656
- 33. J-J Wang, **GK Aguirre**, DY Kimberg, AC Roc, L Li, MD Schnall, JA Detre. (2003). Arterial Spin Labeling Perfusion fMRI with Very Low Task Frequency. Magn Reson Med 49, 796-802.

- 34. J-J Wang, **GK Aguirre**, DY Kimberg, JA Detre. (2003). Empirical Analyses of Null-Hypothesis Perfusion fMRI Data at 1.5 and 4T. NeuroImage 19, 1449-62.
- 35. AP Jha, SA Fabian, **GK Aguirre** (2004). The role of prefrontal cortex in resolving distractor interference. Cogn Affect Behav Neurosci 4, 517-27.
- 36. J-J Wang, Z Wang, **GK Aguirre**, JA Detre (2005). To smooth or not to smooth? ROC analysis of perfusion fMRI data. Magn Reson Imaging 23, 75-81.
- 37. RA Epstein, JS Higgins, W Parker, **GK Aguirre**, S Cooperman (2006) Cortical correlates of face and scene inversion: A comparison. Neuropsychologia 44(7): 1145-1158.
- 38. IR Olson, H Rao, KS Moore, J Wang, JA Detre, **GK Aguirre** (2006) Using perfusion fMRI to measure continuous changes in neural activity with learning. Brain Cogn 60, 262-71.
- 39. M Bedny, **GK Aguirre**, SL Thompson-Schill (2007) Item analysis in functional magnetic resonance imaging. Neuroimage. 35, 1093-1102.
- 40. **GK Aguirre** (2007) Continuous carry-over designs for fMRI. Neuroimage. 35, 1480-1494. PMCID: PMC2147064.
- 41. **GK Aguirre**, AM Komaromy, AV Cideciyan, DH Brainard, TS Aleman, AJ Roman, BB Avants, JC Gee, M Korczykowski, WW Hauswirth, GM Acland, GD Aguirre, SG Jacobson (2007) Canine and Human Visual Cortex Intact and Responsive Despite Early Retinal Blindness from RPE65 Mutation. PLoS Med, 4(6), 230. PMCID: PMC1896221.
- 42. AV Cideciyan, TS Aleman, SG Jacobson, H Khanna, A Sumaroka, **GK Aguirre**, et al. (2007). Centrosomal-ciliary gene cep290/nphp6 mutations result in blindness with unexpected sparing of photoreceptors and visual brain: Implications for therapy of leber congenital amaurosis. Hum Mutat, 28(11), 1074-1083.
- 43. DJ Libon, L Massimo, P Moore, HB Coslett, A Chatterjee, **GK Aguirre**, A Rice, L Vesely, M Grossman (2007). Screening for Frontotemporal Dementias and Alzheimer's Disease with the Philadelphia Brief Assessment of Cognition: A Preliminary Analysis. Dement Geriatr Cogn Disord. 24(6):441-447
- 44. GA Stefanatos, WQ Joe, **GK Aguirre**, JA Detre, G Wetmore (2008). Activation of human auditory cortex during speech perception: Effects of monaural, binaural, and dichotic presentation. Neuropsychologia. 46(1): 301-15
- 45. Z Wang, **GK Aguirre**, H Rao, J Wang, MA Fernandez-Seara, AR Childress, et al. (2008). Empirical optimization of ASL data analysis using an ASL data processing toolbox: Asltbx. Magn Reson Imaging. PMCID: PMC2268990.
- 46. A Thomas, K Lawler, IR Olson, **GK Aguirre** (2008). The Philadelphia face perception battery. Archives of Clinical Neuropsychology. 23(2): 175-187. PMCID: PMC2366210.
- 47. A Harris, **GK Aguirre** (2008). The representation of parts and wholes in face-selective cortex. Journal of Cognitive Neuroscience. 20(5): 863-878

- 48. PD Radoeva, S Prasad, DH Brainard, **GK Aguirre**. (2008) Neural activity within area V1 reflects unconscious visual performance in a case of Blindsight. Journal of Cognitive Neuroscience. 20(11), 1-13. PMCID: PMC2773243.
- 49. A Harris, **GK Aguirre** (2008). The Effects of Parts, Wholes, and Familiarity on Face-Selective Responses in MEG. Journal of Vision. 8(10): 1-12
- 50. A Chatterjee, A Thomas, S Smith, **GK Aguirre**. (2009) The Neural Response to Facial Attractiveness. Neuropsychology. 23(2): 135-43
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