

Curriculum Vitae
Asif A. Ghazanfar
Neuroscience Institute
Department of Psychology
Princeton University
(September 2009)

Contact Information

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Personal

Date of Birth: April 20, 1972
Place of Birth: Pullman, Washington, U.S.A.

Education

1994 – 1999 Doctorate, *Neurobiology*, Duke University (Advisor: Miguel Nicolelis)
1990 – 1994 Bachelor of Science, *Philosophy*, University of Idaho.

Academic Employment

2009 – present Associated Faculty, Ecology & Evolutionary Biology, Princeton University
2007 – present Assistant Professor, Neuroscience Institute, Princeton University
2005 – present Assistant Professor, Department of Psychology, Princeton University
2001 – 2005 Research Scientist, AG Logothetis, Max Planck Institute for Biological
Cybernetics, Tuebingen, Germany
1999 – 2001 Postdoctoral fellow, Department of Psychology, Harvard University (Advisor:
Marc Hauser)
2000 Teaching fellow, Department of Psychology, Harvard University

Honors and Awards

2010 – 2013	Lawrence S. Brodie preceptorship
2006 – 2011	National Science Foundation CAREER Award
2002 – 2005	Max Planck Society Fellowship
2000	Human Frontiers Science Program Fellowship
1999	McDonnell-Pew Summer Institute in Cognitive Neuroscience Fellow
1999 – 2002	National Research Service Award (Postdoctoral), NIH NIDCD
1999 – 2002	Harvard-MIT Speech & Hearing Sciences Fellowship (declined)
1995	Antonio Borsellino College on Neurophysics, Trieste, Italy
1994 – 1996	Duke University Neurobiology Graduate Fellowship
1993	Idaho Academy of Sciences, 1 st Prize, Biological Sciences section
1991 – 1994	University of Idaho Dean's Honor List
1990	University of Idaho Presidential Scholarship
1989	National Science Foundation Young Scholars Program Fellow

Research Support

Current

- 2006 – 2011 NSF BCS-0547760 CAREER Award, Principal Investigator
"The neuro-cognitive evolution of speech-reading"
- 2007 – 2012 NIH R01NS054898, Principal Investigator
"Multisensory integration of faces and voices in the primate temporal lobe"

Completed

- 2006 – 2008 Autism Speaks Research Grant, Principal Investigator
"Large-scale network operations in the primate brain underlying the sensorimotor integration of social signals"

Professional Associations

Society for Neuroscience
International Society for Neuroethology

Service

External

Associate Editor, *Frontiers in Integrative Neuroscience*

Ad-hoc reviewer: Journals

American Journal of Primatology	Journal of the Acoustical Society of America	Perception
Animal Behaviour	Journal of Cognitive Neuroscience	PLoS Biology
Animal Cognition	Journal of Comparative Neurology	PLoS Computational Biology
Behavioral Neuroscience	Journal of Comparative Physiology A	PLoS One
Brain Behavior & Evolution	Journal of Comparative Psychology	Proceedings of the National Academy of Sciences USA
Brain Topography	Journal of Neurophysiology	Proceedings of the Royal Society
Cerebral Cortex	Journal of Neuroscience	
Cognition		

Cognitive Brain Research
Current Anthropology
Current Biology
Ethology
European Journal of Neuroscience
Experimental Brain Research
Infancy

Nature
Nature Neuroscience
NeuroImage
Neuron
Neuropsychologia
Neuroscience Letters
Neuroscience

Psychological Science
Social Neuroscience
Trends in Cognitive Science
Trends in Ecology & Evolution
Trends in Neurosciences

Ad-hoc reviewer: Funding agencies

Biotechnology & Biological Sciences Research Council, United Kingdom
Deutsche Akademie der Natureforscher Leopoldina
Israel Science Foundation
Natural Sciences and Engineering Research Council (NSERC) of Canada
National Science Foundation, multiple sections

Ad-hoc reviewer: Academic Presses

Cambridge University Press
Elsevier Press

Committees:

NSF Cognitive Neuroscience Review panel, 2006
Organizing committee, 8th International Congress of Neuroethology, 2007
NIH Special Emphasis Panel, Integrative, Functional and Cognitive Neuroscience, 2008
NIH Special Emphasis Panel, Integrative, Functional and Cognitive Neuroscience, 2009
NIH Special Emphasis Panel, Methodology and Measurement for the Behavioral and Social Sciences, 2009

Outreach

2007 – Mentor, Harlem Children Society
2006 – Mentor, New Jersey Center for Life Science

Internal

Committees:

Neuroscience Institute Design Committee - Vivarium

University and Departmental Service

2006 – present: Faculty Advisor & Fellow, Mathey College
2006 – Mentor, Freshman Scholars Institute
2006 – Mentor, Mellon Fellows program

Teaching

Princeton University

F2010 NEU/PSY258 Fundamentals of Neuroscience
F2008 FRS 133 How the body shapes the way the brain works
2006-2009 PSY511 Current Issues in Neuroscience & Behavior (co-organizer with Carlos Brody; previously, with Liz Gould & Sam Wang)
S2007, S2008 PSY502 Proseminar in Neuroscience & Neuropsychology

Adam Litterman (MOL, Princeton) - “Statistical learning of social signals”	Fall 2005 – Spring 2007	University of Minnesota, PhD
Ambrose Carr (FSI, Princeton)	Spring – Summer 2006	
M. Bethani Massey (FSI, Princeton)	Spring 2006	
Aristides Arrenberg (Hamburg)	Spring, 2004	UCSF, PhD
Jonathan Leong (Harvard)	Summer, 2003	Max Planck Institute, PhD
Alex Pollen (Harvard)	Fall, 2001	Oxford, MSc
Duncan Smith-Rohrberg (Harvard)	Fall & Spring 2000	Yale, MD/PhD program
Jonathan I. Flombaum (Harvard)	Fall, 2000	Faculty, Johns Hopkins

Invited Talks

- 2001 - Vocal Communication Symposium, XXVII International Ethological Conference, *Germany*
- 2002 - Department of Psychology, Princeton University
- 2002 - Center for Neuroscience, University of California, Davis
- 2002 - Center for Systems Neuroscience, Harvard University
- 2002 - ESF Workshop on ‘Neurobiology of Communication’, Cambridge, *United Kingdom*
- 2003 - Department of Biological Anthropology & Anatomy, Duke University
- 2003 - Advances in Primate Auditory Neurophysiology Symposium, New Orleans
- 2003 - “Origins of Language” Symposium, Primate Research Institute, Kyoto, *Japan*
- 2003 - Center for Neuroengineering, Duke University
- 2003 - Department of Psychology, University of St. Andrews, Fife, *Scotland*
- 2003 - Max Planck Institute for Neurobiology, Munich, *Germany*
- 2003 - Ftan Summer Academy (Cognitive Neuroscience), *Switzerland* (4 Lectures)
- 2004 - Plenary Lecture, Lemanic Neuroscience Program, Les Diablerets, *Switzerland*
- 2004 - Department of Biological Sciences, University of Idaho
- 2004 - Symposium, 5th International Multisensory Research Forum, Barcelona, *Spain*
- 2004 - Department of Psychology, Princeton University
- 2004 - Department of Psychology, Harvard University
- 2004 - Department of Psychology/Yerkes Primate Center, Emory University
- 2004 - Department of Psychology, Vanderbilt University
- 2005 - Department of Psychology, Yale University
- 2005 - ICON9 –“Social Cognition through Faces & Voices” symposium, Havana, *Cuba*
- 2005 - Gordon Conference - “Neural Circuits & Plasticity”, Newport, RI
- 2005 - Processing of Multimodal Signals Workshop, Vannes, Brittany, *France*
- 2005 - Mini-symposium, “Primate Neuroethology”, Society for Neuroscience, Washington, D.C.
- 2005 - Keynote Lecture, Systems Neuroscience Congress, Hanover, *Germany*
- 2005 - Department of Biomedical Engineering, Johns Hopkins University
- 2006 - Department of Psychology, Queen’s University, *Canada*
- 2006 - Symposium, 7th International Multisensory Research Forum, *Ireland*.
- 2006 - Symposium, Keio University, Tokyo, *Japan*
- 2006 - Social Neuroscience Seminar Series, New York University
- 2007 - Mathey Faculty Fellow Lunch, Princeton University
- 2007 - OIST Workshop on Cognitive Neurobiology, Okinawa, *Japan*
- 2007 - IBRO African Neuroscience Workshop, Entebbe, *Uganda*
- 2007 - Center for Studies in Physics and Biology, Rockefeller University
- 2007 - Center for Neurobiology & Behavior, Columbia University

2007 - Plenary Lecture, Audiovisual Speech Processing 2007, *The Netherlands*
 2007 - Institute of Neurological Sciences, University of Pennsylvania
 2007 - Behavioral Neuroscience series, Yale University
 2007 - IBRO Cognitive Neuroscience Workshop, Havana, *Cuba* (4 lectures)
 2008 - Department of Psychology, Brandeis University
 2008 - Cosyne Workshop on “Dynamic faces”, Snowbird, Utah
 2008 - Departement d'Etudes Cognitives, Ecole Normale Supérieure de Paris, *France*
 2008 - Distinguished Lecture, Centre for Affective Science, University of Geneva, *Switzerland*
 2008 - Wellcome Trust Center for Neuroimaging, University College London, *United Kingdom*
 2008 - Department of Experimental Psychology, University of Oxford, *United Kingdom*
 2008 - Edmond & Lily Safra Institute of Neuroscience (4 lectures), Natal, *Brazil*
 2008 - Sloan-Swartz Computational Neuroscience meeting, Princeton University
 2008 - Neuroscience of Social Decision Making series, Princeton University
 2008 - Iowa Center for Developmental and Learning Sciences, University of Iowa
 2008 - Department of Biology, Bowdoin College
 2008 - Keynote Lecture, “Face-to-Face Communication” workshop, Grenoble, *France*
 2008 - Advances & Perspectives in Auditory Neurophysiology (APAN) workshop, Washington DC
 2008 - Department of Ecology & Evolutionary Biology, Princeton University
 2009 - IBRO Cognitive Neuroscience Workshop (2 lectures), New Delhi, *India*
 2009 - John B. Pierce Laboratory, Yale University
 2009 - Department of Neurobiology, Duke University
 2009 - Evolution of Language symposium, Cognitive Neuroscience Society, San Francisco
 2009 - Emergent Communication workshop, Princeton University
 2009 - Symposium, Experimental Biology Annual Meeting, New Orleans
 2009 - Summer Institute for Cognitive Neuroscience, Sage Center, UC Santa Barbara
 2009 - Symposium, “An embodied view of multisensory speech”, 10th International Multisensory Research Forum.
 2009 - Symposium, “The development of multisensory perception”, 10th International Multisensory Research Forum.
 2009 - Eunice Kennedy Shriver National Institute for Child Health & Human Development, NIH
 2009 - “Complexity & Neuroscience” workshop, Sage Center, UC Santa Barbara
 2009 - Distinguished Speaker, Brain & Mind workshop, Sapporo City, *Japan*
 2009 - Symposium, Brazilian Neuroscience Meeting, Sao Paulo, *Brazil*
 2009 - Department of Biology, Gettysburg College (Sep 25)
 2009 - Cognitive Science Program, Villanova University (Nov 13)
 2009 - Neurosciences Institute, University of Texas, San Antonio (Dec 3)
 2010 - NeuroCog Collective, Bocas del Toro, *Panama* (Jan 11-14)
 2010 - California Institute of Technology (Jan 21)
 2010 - Biopsychology/Evolutionary Biology seminar series, University of Chicago (Mar 3)
 2010 - Student-invited seminar, Neuroscience Institute, Georgia State University (Mar 19)
 2010 - Department of Physiology, University of Arizona (Mar 23)
 2010 - Santa Fe Institute (Mar 25)
 2010 - Cognitive Science Program, Indiana University-Bloomington (Apr 5)
 2010 - School of Informatics, Indiana University-Indianapolis (April 7)
 2010 - Department of Physiology, Georgetown University (Apr 21)
 2010 - York University, *Canada* (May)
 2010 - Symposium, International Congress of Neuroethology, Salamanca, *Spain* (Aug 4-7)
 2010 - Symposium, Interspeech, Chiba City, *Japan* (Sep 26-30)

2010 - "Linking neural dynamics and coding: correlations, synchrony, and information", Banff International Math Research Station, *Canada* (Oct 3-8)

Publications

Books

1. **Ghazanfar AA**, Editor (2002) *Primate Audition: Ethology and Neurobiology*. CRC Press, Boca Raton, FL.
2. Platt ML & **Ghazanfar AA**, Editors (2009, in press) *Primate Neuroethology*. Oxford University Press, Oxford, UK.

Research reports

1. **Ghazanfar AA** and Nicolelis MAL (1997) Non-linear processing of tactile information by thalamocortical ensembles. *Journal of Neurophysiology*, 78: 506-510.
2. Nicolelis MAL, **Ghazanfar AA**, Faggin B, Votaw S and Oliveria LMO (1997) Reconstructing the engram: simultaneous, multi-site, many single neuron recordings. *Neuron*, 18: 529-537.
3. Grober MS, Winterstein G, **Ghazanfar AA** and Eroschenko V (1998) The effects of estradiol on gonadotropin-releasing hormone neurons in the developing mouse brain. *General & Comparative Endocrinology*, 112:356-363.
4. Nicolelis MAL, **Ghazanfar AA**, Stambaugh, CR, Oliveira LMO, Laubach, M, Chapin JK, Nelson RJ and Kaas JH (1998) Simultaneous encoding of tactile information by three primate cortical areas. *Nature Neuroscience*, 1:621-630.
5. Krupa, DJ, **Ghazanfar AA** and Nicolelis MAL (1999) Immediate thalamic sensory plasticity depends on cortical feedback. *Proceedings of the National Academy of Sciences, USA*, 96: 8200-8205.
 - [commentary by JH Kaas, "Is most of neural plasticity in the thalamus cortical?" *PNAS* 96: 7622-7623].
6. **Ghazanfar AA** and Nicolelis MAL (1999) Spatiotemporal properties of layer V neurons in the rat primary somatosensory cortex. *Cerebral Cortex*, 9: 348-361.
7. **Ghazanfar AA**, Stambaugh CR and Nicolelis MAL (2000) Encoding of tactile stimulus location by somatosensory thalamocortical ensembles. *Journal of Neuroscience*, 20: 3761-3775.
8. **Ghazanfar AA**, Flombaum JI, Miller CT and Hauser MD (2001) Units of perception in the antiphonal calling behavior of cotton-top tamarin (*Saguinus oedipus*): playback experiments with long calls. *Journal of Comparative Physiology A*, 187: 27-35.
9. **Ghazanfar AA**, Krupa DJ and Nicolelis MAL (2001) Role of corticothalamic feedback in processing simple and complex tactile stimuli. *Experimental Brain Research*, 141: 88-100.

10. **Ghazanfar AA**, Smith-Rohrberg D and Hauser MD (2001) The role of temporal cues in conspecific vocal recognition: rhesus monkey orienting asymmetries to reversed calls. *Brain, Behavior, and Evolution*, 58: 163-172.
11. **Ghazanfar AA**, Smith-Rohrberg D, Pollen AA and Hauser MD (2002) Temporal cues in the perception of long calls by cotton-top tamarins. *Animal Behaviour*, 64: 427-438.
12. **Ghazanfar AA**, Neuhoff JG and Logothetis NK (2002) Auditory looming perception in rhesus monkeys. *Proceedings of the National Academy of Sciences, USA*, 99: 15755-15757.
 - [Commentary by DA Hall and DR Moore, “Auditory neuroscience: the salience of looming sounds” in *Current Biology* 13: R91-R93].
13. **Ghazanfar AA** and Logothetis NK (2003) Facial expressions linked to monkey calls. *Nature*, 423: 937-938.
14. Maier JX, Neuhoff JG, Logothetis NK and **Ghazanfar AA** (2004) Multisensory integration of looming signals by rhesus monkeys. *Neuron*, 43: 177-181.
15. Jordan KE, Brannon EM, Logothetis NK and **Ghazanfar AA** (2005) Monkeys match the number voices they hear to the number of faces they see. *Current Biology*, 15: 1034-1038.
 - [Commentary by LR Santos, “Primate cognition: putting two and two together”, *Current Biology* 15: 545-547]
16. **Ghazanfar AA**, Maier JX, Hoffman KL and Logothetis NK (2005) Multisensory integration of dynamic faces and voices in primate auditory cortex. *Journal of Neuroscience*, 25: 5004-5012.
17. **Ghazanfar AA**, Nielsen K and Logothetis NK (2006) Eye movements of monkeys viewing vocalizing conspecifics. *Cognition*, 101: 515-529.
18. Lewkowicz DJ and **Ghazanfar AA**. (2006) The decline of cross-species intersensory perception in human infants. *Proceedings of the National Academy of Sciences, USA*, 103: 6771-6774.
19. **Ghazanfar AA**, Turesson HK, Maier JX, van Dinther R, Patterson RD and Logothetis NK (2007) Vocal tract resonances as indexical cues in a non-human primate. *Current Biology*, 17: 425-430.
 - [Commentary by KG Munhall and SK Byrne, “Animal communication: big talkers and small talk”, *Current Biology*, 17: R247-R249]
20. Maier JX and **Ghazanfar AA** (2007) Looming biases in monkey auditory cortex. *Journal of Neuroscience*, 27: 4093-4100.
21. Hoffman KL, **Ghazanfar AA**, Gauthier I and Logothetis NK (2008) Category-specific responses to faces and objects in primate auditory cortex. *Frontiers in Systems Neuroscience*, 1:2. doi:10.3389/neuro.06/002.2007.

22. **Ghazanfar AA**, Chandrasekaran C and Logothetis NK (2008) Interactions between the superior temporal sulcus and auditory cortex mediate dynamic face/voice integration in rhesus monkeys. *Journal of Neuroscience*, 28: 4457-4469.
23. Vatakis A, **Ghazanfar AA** and Spence C (2008) Facilitation of multisensory integration by the ‘unity effect’ reveals that speech is special. *Journal of Vision*, 8: 1-11. doi:10.1167/8.9.14
24. Maier JX, Chandrasekaran C and **Ghazanfar AA** (2008) Integrating bimodal looming signals through neuronal coherence in the temporal lobe. *Current Biology*, 18: 963-968.
 - [Commentary by M Bauer, “Multisensory integration: A functional role for inter-area synchronization?” *Current Biology*, 18: 709-710]
25. Chandrasekaran C and **Ghazanfar AA** (2009) Different neural frequency bands integrate faces and voices differently in the rhesus monkey superior temporal sulcus. *Journal of Neurophysiology*, 101: 773-788.
26. Zangenehpour S, **Ghazanfar AA**, Lewkowicz DJ and Zatorre RJ (2009) Heterochrony and cross-species intersensory matching by infant vervet monkeys. *PLoS ONE*, 4: e4302.
27. Chandrasekaran C, Trubanova A, Stillitano S, Caplier A and **Ghazanfar AA** (2009) The natural statistics of audiovisual speech. *PLoS Computational Biology*, 5: e1000436.
28. **Ghazanfar AA** and Maier JX (2009) Monkeys hear rising frequency sounds as looming. *Behavioral Neuroscience*, 123: 822-827.
29. Steckenfinger SA and **Ghazanfar AA** (2009) Monkey visual behavior falls into the uncanny valley. *Proceedings of the National Academy of Sciences, USA*, *In press*.
30. Chandrasekaran C, Turesson HK, Brown CH and **Ghazanfar AA** (2009) Cortical encoding of natural scenes emerges through the interactions between scene structure and on-going network activity. *Submitted*.
31. Turesson HK and **Ghazanfar AA** (2009) Statistical learning of social signals. *Submitted*.

In preparation

1. Shepherd SV, Steckenfinger S, Hasson U and **Ghazanfar AA** (2009) The eyes of man, monkey & machine: inter-subject gaze correlations while viewing complex, dynamic scenes. *In preparation*.
2. **Ghazanfar AA**, Chandrasekaran C and Turesson HK (2009) The structure of primate vocalizations has a speech-like rhythm and is linked to the slow modulations of auditory cortical gamma band activity. *In preparation*.
3. Nelson GM, Turesson HK, Shepherd SV and **Ghazanfar AA** (2009) Action-oriented statistical learning. *In preparation*.

Reviews

1. Nicolelis MAL, Fanselow EE and **Ghazanfar AA** (1997) Hebb's dream: the resurgence of cell assemblies. *Neuron*, 19: 219-221.
2. **Ghazanfar AA** and Hauser MD (1999) The neuroethology of primate vocal communication: substrates for the evolution of speech. *Trends in Cognitive Science*, 3: 377-384.
3. **Ghazanfar AA** and Nicolelis MAL (2001) The structure and function of dynamic cortical and thalamic receptive fields. *Cerebral Cortex*, 11: 183-193.
4. **Ghazanfar AA** and Hauser MD (2001) The auditory behaviour of primates: a neuroethological perspective. *Current Opinion in Neurobiology*, 11: 712-720.
5. **Ghazanfar AA** and Santos LR (2004) Primate brains in the wild: the sensory bases for social interactions. *Nature Reviews Neuroscience*, 5: 603-616.
6. **Ghazanfar AA** and Schroeder CE (2006) Is the neocortex essentially multisensory? *Trends in Cognitive Science*, 10: 278-285.
7. **Ghazanfar AA** and Rendall D (2008) The evolution of human vocal production. *Current Biology*, 18: R457-R460.
8. **Ghazanfar AA** (2009) The multisensory roles for auditory cortex in primate vocal communication. *Hearing Research*, doi:10.1016/j.heares.2009.04.003.
9. Lewkowicz DJ and **Ghazanfar AA** (2009) The emergence of multisensory systems through perceptual narrowing. *Trends in Cognitive Science*, In press.
10. Teufel C, **Ghazanfar AA** and Fischer J (2010) A puzzle revisited: Lateralized acoustic processing and orienting asymmetries. *Trends in Cognitive Science*, In preparation
11. **Ghazanfar AA**, Krakauer DC and Flack JC (2009) The embodied, situated and strategic nature of primate communication. *Animal Behaviour*, In preparation.

Book Chapters and Proceedings

1. **Ghazanfar AA** and Nicolelis MAL (2000) The space-time continuum in mammalian sensory pathways. In *Time and the Brain*. Edited by R. Miller. Hardwood Press, Sidney, pp. 97-130.
2. Weiss DJ, **Ghazanfar AA**, Miller CT and Hauser MD (2002) Specialized processing of primate facial and vocal expressions: evidence for cerebral asymmetries. In *Comparative Vertebrate Lateralization*. Edited by L.J. Rogers & R.J. Andrew. Cambridge University Press, Cambridge, pp. 480-530.
3. Miller CT and **Ghazanfar AA** (2002) Meaningful acoustic units in nonhuman primate vocal behavior. In *The Cognitive Animal*. Edited by C. Allen, M. Bekoff & G.M. Burghardt. MIT Press, Cambridge, MA, pp. 265-273.

4. **Ghazanfar AA** and Santos LR (2002) Primates as auditory specialists. In *Primate Audition: Ethology & Neurobiology*. Edited by A.A. Ghazanfar. CRC Press, Boca Raton, FL, pp. 1-12.
5. **Ghazanfar AA** and Miller CT (2004) Communication--Auditory. In *Encyclopedia of Animal Behavior*. Edited by Marc Bekoff. Greenwood Press, Westport, CT. pp. 334-343.
6. **Ghazanfar AA**, JX Maier and Turesson HK (2007) Multisensory processes in non-human primates. In *Comparative Social Cognition*. Edited by Shigeru Watanabe, Takeo Tsujii & Julian Keenan. Keio University Press, Tokyo, Japan. Pp. 125-146.
7. **Ghazanfar AA** (2007) The evolution of speech-reading: some comparative evidence. *Proceedings of the Workshop on Audiovisual Speech Processing*, Edited by Jean Vroomen, Marc Swerts & Emiel Krahmer, pp. 1-2.
8. **Ghazanfar AA** and Lewkowicz DJ (2008) The phylogenetic and ontogenetic origins of bimodal primate vocal communication. In *The Origins of Language Revisited*. Edited by N. Masataka. Springer Press, Tokyo. Pp. 85-110.
9. **Ghazanfar AA** and Cohen YE (2008) Primate communication: evolution and neurobiology. In *The Encyclopedia of Neuroscience*. Edited by Larry Squire et al. Elsevier Press, Oxford, UK.
10. Cohen YE and **Ghazanfar AA** (2009) Primate vocal communication. In *Cambridge Encyclopedia of Language Sciences*. Edited by Patrick Hogan, Cambridge University Press. In press.
11. Turesson HK and **Ghazanfar AA** (2009) Animal vocalizations. In *Oxford Companion to Emotion and the Affective Sciences*. Edited by David Sander & Klaus R. Scherer. Oxford University Press, Oxford, UK. Pp. 36-37.
12. Romanski LM and **Ghazanfar AA** (2009) The primate frontal and temporal lobes and their role in multisensory vocal communication. In *Primate Neuroethology*. Edited by Michael L. Platt & Asif A. Ghazanfar. Oxford University Press, Oxford, UK. In press.
13. Shepherd SV and **Ghazanfar AA** (2009) Engaging neocortical networks with dynamic faces. In *Dynamic faces: insights from experiments and computation*. Edited by Martin Giese, Cristobal Curio & Heinrich Buelthoff. MIT Press, Cambridge MA. In press.
14. **Ghazanfar AA** (2009) The unity of the senses in primate vocal communication. In *Frontiers in the neural bases of multisensory processes*. Edited by Micah J. Murray & Mark Wallace. Taylor & Francis Press. In press.
15. **Ghazanfar AA** (2010) The default mode of primate vocal communication and its neural correlates. In *Multisensory object processing in the primate brain*. Edited by Marcus J. Naumer & Jochen Kaiser. Springer, Germany. In press.

16. Lewkowicz DJ and **Ghazanfar AA** (2010) Heterochrony and perceptual narrowing in primates. In *The paradoxical brain*. Edited by Narinder Kapur, Alvaro Pascual-Leone & Vilayanur Ramachandran. Cambridge University Press. In press.
17. **Ghazanfar AA** and Krubitzer L (2010) On the evolution of the multisensory brain. In *Multisensory development*. Edited by Andrew Bremmer, Charles Spence & David Lewkowicz. Oxford University Press. In preparation.
18. **Ghazanfar AA** and Chandrasekaran C (2010) Non-human primate models of audiovisual communication. In *The New Handbook of Multisensory Processes*. Edited by Barry E. Stein. MIT Press. In preparation.
19. van Wassenhove V, **Ghazanfar AA**, Munhall KG and Schroeder CE (2010) Bridging the gap between human and nonhuman studies of audiovisual integration. In *The New Handbook of Multisensory Processes*. Edited by Barry E. Stein. MIT Press. In preparation.

Book reviews and other commentaries

1. **Ghazanfar AA** and Katz DB (1998) Distributed neural substrates and the evolution of speech production. *Behavioral and Brain Sciences*, 21:516-517.
2. **Ghazanfar AA** (2001) Review of “Sound” edited by P. Kruth & H. Stobart. *The Physiologist*, 44: 50.
3. **Ghazanfar AA** (2001) Biomedical research and animal welfare—a delicate balance. Joint review of “The scalpel and the butterfly” by D. Rudacille and “The Lives of Animals” by J.M. Coetzee. *Nature Neuroscience*, 4:227-229.
4. **Ghazanfar AA** (2001) Hanging around with baboons. Review of “A primate’s memoirs” by R. M. Sapolsky. *Trends in Cognitive Science*, 5: 366-367.
5. **Ghazanfar AA** (2001) ‘Nano’-review of “A Different Nature: The Paradoxical World of Zoos and Their Uncertain Future.” by David Hancocks. *American Scientist*, 89: 552.
6. **Ghazanfar AA** (2002) Flexible apes. Review of “Tree of origin: what primate behavior can tell us about human social evolution” edited by F.B.M. De Waal. *American Scientist*, 90: 90-92.
7. **Ghazanfar AA** (2002) Review of “Animal experimentation: a guide to the issues.” by Vaughan Monamy. *Animal Behaviour*, 63: 631-632.
8. **Ghazanfar AA** (2005) Who speaks for the lab rat? Review of “What animals want: expertise and advocacy in laboratory animal welfare” by Larry Carbone. *American Scientist*, 95: 87-89.
9. Gross CG and **Ghazanfar AA** (2006) A mostly sure-footed account of the hand. Review of “The sensory hand” by Vernon Mountcastle. *Science* 312: 1314.

10. **Ghazanfar AA** (2006) Review of “Evolution of communication systems: a comparative approach” edited by D.K. Oller & U. Griebel. *Acta Biotheoretica*, 54: 147-150.
11. **Ghazanfar AA** and Miller CT (2006) Language evolution: Loquacious monkey brains? *Current Biology*, 16: R879-R881.
12. **Ghazanfar AA** and Chandrasekaran CF (2007) Paving the way forward: integrating the senses through phase-resetting of cortical oscillations. *Neuron*, 53: 162-164.
13. **Ghazanfar AA** and Pinsk MA (2007) Speech perception: linking comprehension across a cortical network. *Current Biology*, 17: R420-R422.
14. **Ghazanfar AA** (2007) Social climbing. Review of “Baboon metaphysics: the evolution of a social mind” by Dorothy Cheney & Robert Seyfarth. *Nature*, 438: 535-536.
15. **Ghazanfar AA** and Turesson HK (2008) How robots will teach us how the brain works. Review of “How the body shapes the way we think: a new view of intelligence” by Rolf Pfeifer & Josh Bongard. *Nature Neuroscience*, 11: 3.
16. **Ghazanfar AA** (2008) Language evolution: neural differences that make a difference. *Nature Neuroscience*, 11: 382-384.
17. **Ghazanfar AA** (2008) Bridging the big gap. Review of “On deep history and the brain” by Daniel Lord Smail. *Science*, 321: 914.
18. **Ghazanfar AA** and Turesson HK (2008) Speech production: how do words feel? *Current Biology*, 18: R1142-R1144.

Recent Abstracts and Conference Presentations (last 2 years only)

1. Chandrasekaran C and **Ghazanfar AA** (2009) Detection of vocalizations in noise by a monkey using an ethologically-relevant operant behavioral paradigm. *Advances & Progress in Auditory Neurophysiology (APAN) abstracts*, Chicago, IL.
2. Chandrasekaran C, Turesson HK, Brown CH and **Ghazanfar AA** (2009) Encoding of natural habitat scenes in the primary auditory cortex of monkeys. *Society for Neuroscience abstracts*, Chicago, IL.
3. Shepherd SV and **Ghazanfar AA** (2009) Spontaneous facial expressions and electromyography of monkeys viewing dynamic conspecific expressions. *Society for Neuroscience abstracts*, Chicago, IL.
4. Steckenfinger SA, Shepherd SV, Hasson U and **Ghazanfar AA** (2009) Inter-species and inter-subject scanpath correlations while viewing complex dynamic visual sequences. *Society for Neuroscience abstracts*, Chicago, IL.

5. Baker AE, Tsunada J, Davis SJ, **Ghazanfar AA** and Cohen YE (2009) Context-dependent neural representation of vocalizations in primate ventrolateral prefrontal cortex. *Society for Neuroscience abstracts*, Chicago, IL.
6. Tsunada J, Baker AE, Davis SJ, **Ghazanfar AA** and Cohen YE (2009) Vocalization-context dependent neural representation of faces in primate ventrolateral prefrontal cortex. *Society for Neuroscience abstracts*, Chicago, IL.
7. Chandrasekaran C and **Ghazanfar AA** (2009) Different neural frequency bands integrate faces and voices differently in the superior temporal sulcus. *10th International Multisensory Research Forum*, New York, NY.
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