

CURRICULUM VITAE
3/14/08

NAME: James K. Rilling, Ph.D.

BIRTH DATE: August 3, 1970

CURRENT TITLES AND AFFILIATIONS:

Assistant Professor of Anthropology
Assistant Professor of Psychiatry and Behavioral Sciences
Emory University, 2003 – present

Affiliate Scientist, Division of Psychobiology
Yerkes Regional Primate Research Center, Emory University, 2003 - present

Faculty member, Center for Behavioral Neuroscience
Emory University, 2003 – present

CITIZENSHIP: U.S.A.

PHONE: Office (404)-727-3062

OFFICE ADDRESS: Department of Anthropology
Emory University
Geosciences Building
1557 Pierce Drive
Atlanta, GA 30322

E-MAIL ADDRESS: jrillin@emory.edu

EDUCATION:

1992, B.S., Zoology, University of Wisconsin-Madison
1996, M.A., Anthropology, Emory University, Atlanta, GA
1998, Ph.D., Anthropology, Emory University, Atlanta, GA

PREVIOUS ACADEMIC POSITIONS:

Research Fellow, Department of Psychiatry and Behavioral Sciences
Emory University, 1998-2001
Research Fellow, Center for the Study of Brain, Mind and Behavior
Princeton University, 2001 - 2003

HONORS AND AWARDS:

Phi Beta Kappa, University of Wisconsin-Madison, 1992
Emory University Graduate School Fellowship, 1992-1997
Fellowship to attend the German and American Young Scholars Institute, “The Evolution of Intelligence: The Comparative Analysis of Cognition”, 1998-1999
Markey Center for Neurological Sciences Fellowship for Post-Doctoral Research, 1998 - 2000
National Institutes of Mental Health National Research Service Award for Individual Post-doctoral Research (MH12736 F32), 2000 – 2002
Young Investigator Award, International College of Neuropharmacology, 2004

SOCIETY MEMBERSHIPS:

Society for Neuroscience
American Association of Physical Anthropologists
Corresponding member, UCSD Project for Explaining the Origin of Humans

RESEARCH FOCUS:

I am interested in 1) using functional neuroimaging techniques to explore the neurobiological basis of human and non-human primate social cognition and 2) comparison of human and non-human primate brain anatomy and function in order to identify human brain specializations and shed light on human brain evolution.

GRANT SUPPORT:

L.S.B. Leakey Foundation, “Organization of the Human Brain in Comparative Perspective Using Magnetic Resonance Imaging” (Rilling, PI), \$7,500, 1/1/97-1/1/99

NIMH NRSA, “Neural correlates of aggression in rhesus monkeys” (Rilling, PI MH12736 F32), 2000 – 2002

Center for Behavioral Neuroscience, “Comparative Diffusion Tensor Imaging and Magnetic Resonance Spectroscopy in monkeys, apes and humans”, (Rilling, PI), \$22,000, 1/1/04 - 12/31/05.

University Research Committee, “Comparative Diffusion Tensor Imaging in monkeys, apes and humans”, (Rilling, PI), \$30,000, 1/01/06 – 12/31/06.

National Science Foundation, “Mapping the Social Brain with fMRI and interactive games”, (Rilling, PI), \$294,025, 07/01/05 - 06/30/08.

National Institute on Aging/National Institutes of Health, “Evolution of aging and dementia in female primates”, (Herndon, PI), \$10,985,099, 4/15/07 – 3/31/12.

FORMAL TEACHING:

Anthropology 101: Introduction to Anthropology, Teaching Assistant, Fall 1993
Anthropology 210: Human Biology: A Life Cycle Approach, Teaching Assistant, Fall 1994
Anthropology 210: Human Biology: A Life Cycle Approach, Co-instructor, Fall 1995
Anthropology 210: Human Biology: A Life Cycle Approach, Instructor, Spring, 2004, Spring, 2005, Spring, 2007
Anthropology 385: Evolution of Human Brain and Mind, Instructor, Fall, 2003, Fall, 2004
Anthropology 385: Human Social Neuroscience, Instructor, Fall, 2006
Interdisciplinary Biological Sciences (IBS 703R): Human Social Neuroscience, Co-Instructor, Spring, 2005
Psychology 730R: fMRI Research Group, Co-instructor, Spring, 2004, Fall, 2004, Spring, 2005, Fall 2005, Spring 2006, Fall 2006, Spring 2007
Neuroscience and Behavioral Biology 201: Foundations of Behavior, Co-Instructor, Spring 2006, Spring 2008.

PUBLICATIONS:

- In press **James K. Rilling**, Matthew F. Glasser, Todd M. Preuss, Xiangyang Ma, Tiejun Zhao, Xiaoping Hu and Timothy E.J. Behrens. The Evolution of the Arcuate Fasciculus Revealed with Comparative DTI. *Nature Neuroscience*.
- In press **James K. Rilling**, Agnes Lacreuse, Sarah K. Barks, Hanie Elfenbein, Giuseppe Pagnoni, John R. Votaw and James G. Herndon. Effect of menstrual cycle on resting brain metabolism in female rhesus monkeys. *NeuroReport*.
- In press **James K. Rilling** and Alan G. Sanfey. Decision-making and neuroeconomics: Social interaction. In: Larry Squire (Ed) *The New Encyclopedia of Neuroscience*. Academic Press, Oxford.
- In press **James K. Rilling**. The Social Brain in Interactive Games. In Todorov, A., Fiske, S. T., & Prentice, D. (Eds.). *Social Neuroscience: Toward Understanding the Underpinnings of the Social Mind/*. Oxford University Press.
- In press C.C. Sherwood, **J.K. Rilling**, R.L. Holloway, and P.R. Hof. Evolution, of the brain: in humans – specializations in a comparative perspective. In: *Encyclopedia of Neuroscience*, M.D. Binder, N. Hirokawa, U. Windhorst, M.C. Hirsch (eds), Springer-Verlag.
- In press R.L. Holloway, C.C. Sherwood, **J.K. Rilling**, and P.R. Hof. Evolution, of the brain: in humans – paleoneurology. In:

- Encyclopedia of Neuroscience, M.D. Binder, N. Hirokawa, U. Windhorst, M.C. Hirsch (eds), Springer-Verlag.
- 2008 Matthew F. Glasser, **James K. Rilling**. DTI Tractography of the Human Brain's Language Pathways. *Cereb Cortex*. Epub ahead of print.
- 2007 **James K. Rilling**, David R. Goldsmith, Andrea L. Glenn, Meeta R. Jairam, Hanie A. Elfenbein, Julien E. Dagenais, Christina D. Murdock and Giuseppe Pagnoni. The Neural Correlates of the Affective Response to Unreciprocated Cooperation. *Neuropsychologia*. Epub ahead of print.
- 2007 **James K. Rilling**, Sarah K. Barks, Lisa A. Parr, Todd M. Preuss, Tracy L. Faber, Giuseppe Pagnoni, J. Douglas Bremner, John R. Votaw. A comparison of resting state brain activity in humans and chimpanzees. *Proceedings of the National Academy of Sciences*. 104(43): 17146-51.
- 2007 **James K. Rilling**, Andrea L. Glenn, Meeta R. Jairam, Giuseppe Pagnoni, David R. Goldsmith, Hanie A. Elfenbein and Scott O. Lilienfeld. Neural correlates of social cooperation and non-cooperation as a function of psychopathy. *Biological Psychiatry* 61(11):1260-71.
- 2007 Erin B. McClure, Jessica M. Parrish, Eric E. Nelson, Joshua Easter, John F. Thorne, **James K. Rilling**, Monique Ernst and Daniel S. Pine. Responses to Conflict and Cooperation in Adolescents with Anxiety and Mood Disorders. *Journal of Abnormal Child Psychology* 35(4):567-77.
- 2007 **James K. Rilling**. Evolution of the Cerebellum in Anthropoid Primates. In John Kaas and T.M. Preuss (eds.) Evolution of Nervous Systems. Elsevier Press. Oxford. pp 149-156.
- 2006 **James K. Rilling**. Human and non-human primate brains: are they allometrically scaled versions of the same design? *Evolutionary Anthropology* 15(2): 65-77.
- 2006 Patel RS, Bowman FD, **J.K. Rilling**. Determining hierarchical functional networks from auditory stimuli fMRI. *Human Brain Mapping* 27(5):462-470.
- 2006 Richard M Wood, **James K Rilling**, Alan G Sanfey, Zubin Bhagwagar, and Robert D Rogers. The effects of tryptophan

- depletion on the performance of an iterated Prisoner's Dilemma game in healthy adults. *Neuropsychopharmacology* 31(5):1075-84
- 2006 Patel, R.S., F.D. Bowman, and **J.K. Rilling**, A Bayesian approach to determining connectivity of the human brain. *Human Brain Mapping* 27:267-276.
- 2006 **James K. Rilling**. Noninvasive neuroimaging techniques for the study of primate brain development. In: Gene P. Sackett, Gerald Ruppenthal, and Kate Elias (eds) *Nursery Rearing of Nonhuman Primates in the 21st Century*. Springer. New York. pp. 485-511.
- 2004 **James K. Rilling**, Alan G. Sanfey, Jessica A. Aronson, Leigh E. Nystrom and Jonathan D. Cohen. Opposing BOLD responses to reciprocated and unreciprocated altruism in putative reward pathways. *NeuroReport* 15(16): 2539-2543.
- 2004 **James K. Rilling**, James T. Winslow, and Clinton D. Kilts. The neural correlates of mate competition in dominant male rhesus macaques. *Biological Psychiatry* 56:364-375.
- 2004 **James K. Rilling**, Alan G. Sanfey, Jessica A. Aronson, Leigh E. Nystrom and Jonathan D. Cohen. The neural correlates of theory of mind within interpersonal interactions. *NeuroImage* 22(4): 1693-1702.
- 2004 Tor D. Wager, **James K. Rilling**, Edward E. Smith, Alex Sokolik, Kenneth L. Casey, Richard J. Davidson, Stephen M. Kosslyn, Robert M. Rose, and Jonathan D. Cohen. Placebo-induced changes in fMRI in the anticipation and experience of pain. *Science* 303: 1162-1167.
- 2003 Alan G. Sanfey*, **James K. Rilling***, Jessica A. Aronson, Leigh E, Nystrom, and Jonathan D. Cohen. The neural basis of economic decision-making in the Ultimatum Game. *Science* 300(5626):1755-1758.
* these two authors contributed equally to this manuscript
- 2003 CE. MacLeod, K. Zilles, A. Schleicher, **J. Rilling**, and KR. Gibson. Expansion of the neocerebellum in Hominoidea. *Journal of Human Evolution*. 44(4):401-29.
- 2002 **James K. Rilling**, David A. Gutman, Thorsten R. Zeh, Giuseppe Pagnoni, Gregory S. Berns and Clinton D. Kilts. A neural basis for social cooperation. *Neuron* 35:395-405.

- 2002 **James K. Rilling** and Rebecca A. Seligman. A quantitative morphometric comparative analysis of the primate temporal lobe. *Journal of Human Evolution* 42:505-533.
- 2001 **James K. Rilling**. Allometric departures for the human brain provide insights into hominid brain evolution. *Behavioural and Brain Sciences* 24:292-293.
- 2001 L. Marino, K. Sudheimer, T. Murphy, K. Davis, D. Ann Pabst, W. McLellan, **J. Rilling** and J. Johnson. Anatomy and three-dimensional reconstruction of the brain of a bottlenose dolphin (*Tursiops truncatus*) from Magnetic Resonance Images (MRI). *The Anatomical Record*. 264(4):397-414.
- 2001 **James K. Rilling**, James T. Winslow, Derek J. O'Brien, David A. Gutman, John M. Hoffman and Clinton D. Kilts. Neural correlates of maternal separation in rhesus monkeys. *Biological Psychiatry* 49:146-157
- 2000 Lori Marino, **James K. Rilling**, Shinko K. Lin, and Sam H. Ridgway. Relative volume of the cerebellum in dolphins and comparison with anthropoid primates. *Brain, Behavior and Evolution* 56:204-211.
- 2000 William D. Hopkins and **James K. Rilling**. A comparative MRI study of the relationship between neuroanatomical asymmetry and interhemispheric connectivity in primates: implication for the evolution of functional asymmetries. *Behavioral Neuroscience* 114 (4): 739-748.
- 1999 **James K. Rilling** and Thomas R. Insel. The Human Neocortex in Comparative Perspective Using Magnetic Resonance Imaging. *Journal of Human Evolution* 37:191-223.
- 1999 **James K. Rilling** and Thomas R. Insel. Differential expansion of neural projection systems in primate brain evolution. *NeuroReport* 10: 1453-1459.
- 1998 **James K. Rilling** and Thomas R. Insel. Evolution of the Primate Cerebellum: differences in relative volume among monkeys, apes and humans. *Brain, Behavior and Evolution* 52: 308-314.
- 1998 Mar M. Sanchez, Elizabeth F. Hearn, Dung Do, **James K. Rilling**, James G. Herndon, and Thomas R. Insel. Differential rearing affects corpus callosum size and cognitive function of rhesus monkeys. *Brain Research* 812:38-49.

- 1998 William H. Hopkins, Lori Marino, **James K. Rilling**, and L. MacGregor. Planum temporale asymmetries in Great apes but not in lesser apes. *Neuroreport* 9:2913-2918.
- 1996 **James K. Rilling**, Carol M. Worthman, Benjamin C. Campbell, Joy F. Stallings, Michael Mbizvi. Ratios of plasma and salivary testosterone throughout puberty: production vs. bioavailability. *Steroids* 61:374-378.
- 1992 Thaddeus G. Golos, Richard R. Handrow, Maureen Durning, Jennifer M. Fischer, and **James K. Rilling**. Regulation of Chorionic Gonadotropin-alpha and Chorionic Somatomammotropin Messenger Ribonucleic Acid Expression by 8-Bromo-Adenosin 3', 5'-Monophosphate and Dexamethasone in Cultured Rhesus Monkey Syncytiotrophoblasts. *Endocrinology* 131 (1): 89-100.

ABSTRACTS:

- 2007 **J.K. RILLING**, M.F. GLASSER, T.M. PREUSS, X. MA, X. ZHANG, T. ZHAO, X. HU AND T.E.J. BEHRENS. A comparative diffusion tensor imaging (DTI) study of the arcuate fasciculus language pathway in humans, chimpanzees and rhesus macaques. Annual meeting of the American Association of Physical Anthropologists, Philadelphia, PA.
- 2006 **J. K. RILLING**, M. F. GLASSER, T. M. PREUSS, X. MA, X. ZHANG, T. ZHAO, X. HU, T. BEHRENS. A comparative diffusion tensor imaging (DTI) study of the arcuate fasciculus language pathway in humans, chimpanzees, and rhesus macaques. Annual Meeting of the Society for Neuroscience, Atlanta, GA.
- 2006 M. F. GLASSER, **J. RILLING**. Diffusion tensor imaging tractography of the human language pathways. Annual Meeting of the Society for Neuroscience, Atlanta, GA.
- 2006 J. S. MASCARO, A. MIURA, M. F. GLASSER, T. M. PREUSS, **J. K. RILLING**. A comparison of cerebellar connectivity in humans, chimpanzees, and rhesus macaques using diffusion tensor imaging (DTI) and probabilistic tractography Annual Meeting of the Society for Neuroscience, Atlanta, GA.
- 2006 **James K Rilling**, Sarah K Barks, Lisa A. Parr, Todd M. Preuss, Tracy L Faber, J. Douglas Bremner, John R Votaw. Comparing

- resting brain activity in monkeys, apes and humans. Organization for Human Brain Mapping. 12th annual meeting, Florence, Italy, June 11-15, 2006.
- 2006 Timothy E.J. Behrens, Mark William Woolrich, Heidi Johansen-Berg, Mark Pinsk, Wolfgang Richter, Marlene Richter, Charles Gross, Sabine Kastner, Matthew D. Robson, **James K. Rilling**. Relative contribution of motor and association fibres to the white matter underlying motor cortex in human and macaque. International Society for Magnetic Resonance and Medicine (ISMRM) 14th Scientific Meeting & Exhibition. Seattle, WA. May 6-12, 2006.
- 2006 Exploring the social brain with fMRI and interactive games. **James K. Rilling**. Annual meeting of the American Association for the Advancement of Science. St. Louis, MO. February 19, 2006.
- 2005 Neuroimaging Social Cognitive Function in Higher Primates Using Ecologically Relevant Tasks. **J.K. Rilling**, Program No. 236. *2005 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2005. Online.
- 2005 Comparing resting brain activity in monkeys, apes and humans. Sarah K. Barks, **James K. Rilling**, Lisa A. Parr, Todd M. Preuss, Tracey L. Faber, J. Douglas Bremner, and John R. Votaw. Program No. 770.20. *2005 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2005. Online.
- 2005 Comparing white matter fiber tracts in monkeys, apes and humans with Diffusion Tensor Imaging (DTI). **James K. Rilling**, Todd M. Preuss, Xiangyang Ma, Danli Wang, Leonard Howell, Helen Mayberg, Xiaoping Hu. Organization for Human Brain Mapping. 11th annual meeting, Toronto, Ontario, Canada, June 12-16, 2005.
- 2005 Exploring the neural correlates of social cooperation and non-cooperation: the effect of sex and group membership. **James K. Rilling**, Andrea L. Glenn, Meeta R. Jairam, Giuseppe Pagnoni, Scott O. Lilienfeld. Organization for Human Brain Mapping. 11th annual meeting, Toronto, Ontario, Canada, June 12-16, 2005.
- 2005 Comparing white matter fiber tracts in monkeys, apes and humans with Diffusion Tensor Imaging (DTI). **J.K. Rilling**, T.M. Preuss, X. Ma, D. Wang, L. Howell, H. Mayberg and X. Hu. *American Journal of Physical Anthropology Supplement 40*: 176.

- 2005 Comparing resting brain activity in monkeys, apes and humans. S.K. Barks, **J.K. Rilling**, T.M. Preuss, T.L. Faber, J.D. Bremner, and J.R. Votaw. American Journal of Physical Anthropology Supplement 40: 69.
- 2004 Imaging the social brain with fMRI and interactive games. **J.K. Rilling**, A.G. Sanfey, J.A. Aronson, L.E. Nystrom and J.D. Cohen, D. Gutman, T. Zeh, G. Pagnoni, G. Berns and C. Kilts. International College of Neuropharmacology 2004 Congress. Paris, France, June 20-24, 2004.
- 2004 **J.K. Rilling**, A.G. Sanfey, J.A. Aronson, L.E. Nystrom and J.D. Cohen. Neural correlates of theory of mind within interpersonal interactions. Organization for Human Brain Mapping. 10th annual meeting, Budapest, Hungary, June 13-17, 2004.
- 2003 **J.K. Rilling**. A potential neural mechanism for reciprocal altruism. For an invited session entitled, "Mechanisms for maintaining peace in primate societies". American Anthropological Association. 102nd annual meeting, Chicago, November 19-23, 2003.
- 2003 **J.K. Rilling**, T. D. Wager, R.J. Davidson, S.M. Kosslyn, R.M. Rose, E.E. Smith, J.D. Cohen. An fMRI investigation of the neural mechanisms of placebo analgesia. Organization for Human Brain Mapping. 9th annual meeting, June 18-22, 2003.
- 2003 **J.K. Rilling** and C.D. Kilts. Imaging the neural correlates of mate competition in dominant male rhesus monkeys. American Journal of Physical Anthropology Supplement 36: 179.
- 2002 **J.K. Rilling**. Linking culture and mind through neurodevelopment. For an invited session entitled, "Becoming human: anthropology and human development". American Anthropological Association. 101st annual meeting, New Orleans, November 20-24, 2002.
- 2002 **J. K. Rilling** Imaging the neural correlates of mating competition in dominant male rhesus monkeys. Human Behavior and Evolution Society. 14th annual meeting, Rutgers University, New Brunswick, NJ, June 19-23, 2002.
- 2002 **J.K. Rilling**, A.G. Sanfey, J.A. Aronson, L.E. Nystrom and J.D. Cohen. Mapping the brain's response to reciprocated and unreciprocated social cooperation. Society for Neuroscience abstracts.

- 2002 A.G. Sanfey, **J.K. Rilling**, J.A. Aronson, L.E. Nystrom and J.D. Cohen. An investigation of the neural dynamics of fairness and unfairness. Society for Neuroscience abstracts.
- 2002 **J.K. Rilling**. Allometric departures of the human brain: some methodological considerations. American Journal of Physical Anthropology Supplement 34:131-132.
- 2001 **J.K. Rilling** and C.D. Kilts. Imaging the neural correlates of naturalistic aggression in rhesus monkeys. Society for Neuroscience abstracts.
- 2001 J.I. Johnson, L. Marino, K.D. Sudheimer, **J.K. Rilling**, K.K. Davis, T.L. Murphy and A.J. Fobbs. A 3-D atlas of the brain of a bottle-nose dolphin in magnetic resonance images. Society for Neuroscience abstracts.
- 2001 **J.K. Rilling**. Imaging the neural correlates of social cooperation and non-cooperation in the Prisoner's Dilemma Game. Human Behavior and Evolution Society. 13th annual meeting, University College, London, June 13-17, 2001.
- 2001 **J. Rilling**, D. Gutman, T. Zeh, G. Pagnoni, G. Berns and C. Kilts. Imaging the neural correlates of social cooperation and non-cooperation in the Prisoner's Dilemma Game. NeuroImage 13(6): xli. 7th annual meeting of the Organization for Human Brain Mapping, Brighton, UK, June 10-14, 2001.
- 2001 **J.K. Rilling** and R.A. Seligman. A quantitative morphometric comparative analysis of the primate temporal lobe. American Journal of Physical Anthropology Supplement 32:126.
- 2000 **J.K. Rilling** and R.A. Seligman. A quantitative morphometric comparative analysis of the primate temporal lobe. Society for Neuroscience Abstracts 26(1):190.
- 2000 **J. Rilling**, C. Kilts, S. Williams, M. Beran, M. Giroux, JM Hoffman, S. Rapoport, S. Savage-Rumbaugh and D. Rumbaugh. A comparative PET study of linguistic processing in humans and language-competent chimpanzees. American Journal of Physical Anthropology Supplement 30:263.
- 2000 **J.K. Rilling**, D. Rumbaugh, M. Beran, C. Elder, S. Williams, J. Kelly, M. Giroux, J. Hofman, and C. Kilts. Functional Neuroimaging of Language Skills in Chimpanzees. Society for the Study of Philosophy and Psychology, April 21, 2000, Atlanta, GA.

- 2000 L.L. Howell, J.M. Hoffman, J.R. Votaw, C.D. Kilts, A.J. Kitchens, and **J.K. Rilling**. PET imaging in awake rhesus monkeys during cocaine self-administration: Drug-induced changes in regional cerebral blood flow (rCBF). NIDA Research Monograph Series 180: 67.
- 1999 D. O'Brien, **J.K. Rilling**, J. Fergusson, J.M. Hoffman, C. Kilts and J. Winslow. Effect of maternal separation stress on regional cerebral glucose metabolism in juvenile rhesus monkeys. Society for Neuroscience Abstracts 25(1):617.
- 1999 L. Marino and **J.K. Rilling**. Cetacean (dolphin, whale and porpoise) neuroanatomy as revealed by magnetic resonance imaging. Society for Neuroscience Abstracts 25(1):106.
- 1999 **J.K. Rilling**, C. Kilts, S. Williams, J. Kelley, M. Beran, M. Giroux, J.M. Hoffman, S. Savage-Rumbaugh and D. Rumbaugh. Functional neuroimaging of linguistic processing in chimpanzees. Society for Neuroscience Abstracts 25(2):2170.
- 1999 **J.K. Rilling** and Thomas R. Insel. Evolution of neocortical size and gyrification in hominids: evidence from comparative neuroanatomy. American Journal of Physical Anthropology Supplement 28:233.
- 1998 **J.K. Rilling** and Thomas R. Insel. Differential expansion of neural projection systems in primate evolution. Society for Neuroscience Abstracts 24(1):159.
- 1997 **J. K. Rilling**. Aggressive Behavior Among Men: Biological Underpinnings. Paper presented at the annual meeting of the American Anthropological Association, Washington D.C.
- 1997 Mar M. Sanchez, Elizabeth F. Hearn, **James K. Rilling**, Thomas R. Insel, Paul M. Plotsky. The hypothalamo-pituitary-adrenal function and behaviour in infant rhesus monkeys: effects of differential rearing. Psychoneuroendocrinology 22 (Suppl :2) :S198.
- 1997 M.M. Sanchez, E. Hearn, **J.K. Rilling**, D. Do, J.G. Herndon and T.R. Insel. Rearing condition alters cognitive function and corpus callosum size in infant rhesus monkeys. Society for Neuroscience Abstracts 23(1): 902.
- 1997 **J.K. Rilling**, K. Semendeferi, H. Damasio, and T.R. Insel. The Human neocortex in comparative perspective using magnetic

resonance imaging. American Journal of Physical Anthropology Suppl. 24:197.

- 1997 K. Semendeferi, H. Damasio, **J.K. Rilling**, and T. Insel. The volume of the cerebral hemispheres , frontal lobes, and cerebellum in living humans and apes using in vivo magnetic resonance morphometry. American Journal of Physical Anthropology Suppl. 24: 208.
- 1996 **J.K. Rilling**. Migration Stress, pathogen pressure and illness. American Journal of Physical Anthropology Suppl. 22: 198.
- 1996 Thomas W. McDade, Carol M. Worthman, **James K. Rilling**, Joy F. Stallings, and Adrian Angold. Stress, depression, and immune function in American adolescents American Journal of Physical Anthropology Suppl. 22:162.
- 1994 **J.K. Rilling**, B.C. Campbell, J.F. Stallings, and C. M. Worthman. Ratios of plasma and salivary testosterone throughout puberty: production vs. bioavailability. American Journal of Physical Anthropology Suppl. 18:170.

MANUSCRIPT REVIEWER

Comparative Biochemistry and Physiology
American Journal of Physical Anthropology
Behavioral and Brain Sciences
American Journal of Primatology
Journal of Theoretical Biology
Journal of Neuroscience
Journal of Human Evolution
NeuroImage
Neuron
Evolutionary Anthropology
Behavioral Neuroscience
Science
Proceedings of the National Academy of Sciences
Ethos
Journal of Cognitive Neuroscience

RESEARCH EXPERIENCE:

- 2005 Training in analysis of Diffusion Tensor Imaging data at the Oxford Centre for Functional Magnetic Resonance Imaging of the Brain using the package FSL.
- 2001-2002 Training in fMRI image acquisition (Siemens Allegra 3T magnet) and analysis (Brain Voyager software) at the Center for the Study of Brain, Mind and Behavior, Princeton University
- 2000-2001 Training from personnel in Emory University Departments of Psychiatry and Radiology in fMRI data collection (Philips Integra 1.5 T) and analysis (SPM 99). Served as Principle Investigator for three fMRI experiments where responsibilities included study design, data collection and data analysis.
- 1998-2000 Training from personnel in the Emory Center for PET in Automated Image Registration (AIR) software for analysis of Positron Emission Tomography brain imaging data. Served as PI in one non-human primate PET imaging experiment, and analyzed two other non-human primate PET data sets.
- 1998-1999 Training from the veterinary staff at the Yerkes Regional Primate Research Center in transport, handling, sedation and blood collection of rhesus monkeys
- 1997-1998 Performed more than 50 whole-brain structural MRI scans on anesthetized non-human primate subjects from the Yerkes Regional Primate Research Center.
- 1996 Training from staff at Emory University Hospital in the operation of the Philips NT 1.5 T Magnetic Resonance scanner, and in use of the accompanying software program for image analysis (“Easyvision”).
- 1993-1995 Training and independent research at the Laboratory for Comparative Human Biology, Emory University which involved experience with radioimmunoassays, fluorometric assays, and enzyme-linked immunosorbent assays used to measure analytes in serum, whole blood spots and saliva samples. Assisted in several ongoing studies aimed at explaining variation in endocrine function both among and with human populations.
- 1991-1992 Training and independent research at the Wisconsin Regional Primate Research Center which involved experience with immunocytochemistry and in situ hybridization to localize placental hormones and their mRNA transcripts to specific cells within the primate placenta.

