

Curriculum Vitae – December 2011

Adam Gazzaley, M.D., Ph.D.

Contact: University of California, San Francisco
Mission Bay, Genentech Hall
600 16th Street, Room N472J
San Francisco, CA 94158-2517
(office) 415-476-2162
(lab) 415-476-2164
(fax) 415-502-1655
(mobile) 267-257-8191
(e-mail) adam.gazzaley@ucsf.edu
(website) gazzaleylab.ucsf.edu

Education: 1982-1986 Bronx High School of Science, NYC
1986-1990 BS - Biochemistry, Binghamton University, NY
1990-1998 MD, PhD - Neuroscience
Mount Sinai School of Medicine, NYC
(Dr. John H. Morrison)

Postgraduate Training: 1997 *Postdoctoral Fellow*
Mount Sinai School of Medicine, NYC
(Dr. John H. Morrison)
1998 - 1999 *Intern in Medicine*
Hospital of the University of Pennsylvania
1999 - 2002 *Resident in Neurology*
Hospital of the University of Pennsylvania
2002 - 2004 *Postdoctoral Fellow- Cognitive Neuroscience*
University of California, Berkeley
(Dr. Mark D'Esposito & Dr. Robert Knight)
2002 - 2005 *Cognitive Neurology Fellow*
University of California, San Francisco

Faculty Appointments: 2002 - 2007 *Attending Neurologist*
Northern California VA Medical Center
UCSF Medical Center
2005 - 2010 *Assistant Professor of Neurology and Physiology*
University of California, San Francisco
Assistant Adjunct Professor of Neuroscience
University of California, Berkeley
2009 - 2010 *Assistant Professor of Psychiatry, UCSF*
2005 - Present *Director of the Neuroscience Imaging Center*
University of California, San Francisco
2010 - Present *Associate Professor of Neurology, Physiology and Psychiatry*
University of California, San Francisco
• Memory and Aging Center
• Keck Center of Integrative Neuroscience
• Neuroscience Graduate Program
• Biomedical Sciences Graduate Program
• Bioengineering Graduate Program
• California Institute for Quantitative Biosciences

Medical Licensure	2002 – Present	California (A79274)
Specialty Certification	2004	American Board of Psychiatry & Neurology
Awards:	1997	Krieg Cortical Kudos- Cortical Scholar Award
	1998	Mount Sinai - Basic Science Achievement Award
	1998	Morris Bender Award in Clinical Neurology
	2004	NIH Career Development Award
	2005	Laird Cermak Award
	2005	Pfizer/AFAR Innovations in Aging Award
	2006	Ellison Foundation New Scholar Award in Aging
	2009	UCSF Postdoctoral Association Outstanding Mentorship Award
Patents:	2011	International Patent Application Serial No. US2011/060260 “Enhancing Cognition in the Presence of Distraction and/or Interruption” (Sole Inventor)
Advisory Board: /Consultant	2000 - Present	Ram Capital, NYC
	2004 - Present	Foundation Ventures, NYC
	2008 - Present	Neuroscouting LLC, CA
	2008 - Present	AFAR’s National Scientific Advisory Council
	2008 - 2010	Lifelong living, learning and Longevity (L4), CA
	2009 - Present	Neurofocus, CA
	2010 - Present	ElMindA, Israel
	2010	Pfizer
	2011 - Present	Puretech Ventures, Boston
	2011	Proctor & Gamble
	2011	Directions5
Editorial Board:	2002 - 2004	SAGE KE- <i>Science</i> online
	2010 - Present	Neuroimage
	2011 - Present	Games for Health: Research, Development, and Clinical Applications (G4H)
	2011	Ad-hoc Editor: Proceedings of the National Academy of Science
Journal Reviewer:	Nature	Neuron
	Nature Neuroscience	Journal of Neuroscience
	Proceedings of the National Academy of Science	Brain
	Neurobiology of Aging	Neuropsychologia
	Cerebral Cortex	Neuroscience
	Journal of Cognitive Neuroscience	Psychology and Aging
	Cognitive, Affective and Behavioral Neuroscience	Neurocase
	Annals of Neurology	Experimental Brain Research
	Brain Research	Behavioral Neuroscience
	European Journal of Neuroscience	Neuroimage
	Biological Psychiatry	Cortex
	Aging, Neuropsychology and Cognition	Current Biology
	Human Brain Mapping	Hippocampus
	Psychological Bulletin	Cognitive Science
	Journal of Experimental Psychology	Psychophysiology
Grant Reviewer:	National Science Foundation	UK Alzheimer’s Society
	Department of Defense	Canadian Foundation for Innovation

NIA Layton Alzheimer Disease Center Louisiana Board of Regents
American Federation of Aging Research UC Presidential Fellowship
UCSF Limited Submission Selection Committee (2011)
NIA Program Project Grant review (2011)

Professional Societies: American Academy of Neurology
Cognitive Neuroscience Society
Organization for Human Brain Mapping
Society for Behavioral and Cognitive Neurology
Society for Neuroscience
New York Academy of Science
Memory Disorders Research Society (by election)
American Neurological Association (by election)

Teaching:

Past

City College, New York City

Neuroanatomy Lab (graduate students)

Mount Sinai School of Medicine, New York City

Gross Anatomy

Neuroanatomy (medical students)

Neuroanatomy (graduate students)

University of California, Berkeley

PSY 290 Clinical Neuroscience Seminar (graduate students)

IB245L Human Neuroanatomy Lab (undergraduate students)

Current

University of California, Berkeley

PSY214 Functional MRI Methodology (graduate)

University of California, San Francisco

Guest Lecturer:

Brain, Mind and Behavior (medical students)

NS245 Behavioral Neuroscience (graduate students)

Advances in Medical Sciences (medical students)

NS 201B Core Neuroscience (graduate students)

BIOEN 245 Electromagnetic Neuroimaging (graduate students)

Renal Physiology (medical students)

MRI methods (Memory and Aging Center)

Course Director and Lecturer:

NS 246 Cognitive Neuroscience (graduate students) *New course at UCSF

Laboratory:

Current students

Omar AlHashimi, MD (graduate student)

Current postdoctoral fellows

Theodore Zanto, PhD

Jacob Bollinger, PhD

Peter Wais, PhD

Joaquin Anguera, PhD

Jyoti Mishra, PhD

Bradley Voytek, PhD

Lisa Bauer, RN, PhD

David Zeigler, PhD

Current faculty

Judy Pa, PhD (Neurology Department; assistant professor)

2009 - 2011 Robert Wood Johnson Foundation – Games for Health Research (PI: Gazzaley)

Current

2007 - 2011 Posit Science (PI: Gazzaley)
“Cognitive Training of Top-down Modulation in Normal Aging”

2008 - 2013 NIH R01 (PI: Gazzaley)
“Neural Mechanisms Underlying Cognitive Aging”

2009 - 2012 NIH R01; Administrative Supplement (PI: Gazzaley)

2009 - 2014 NIH R01 (PI: Boxer)
“Eye Movement Control in Normal Elderly and MCI”

2011 - 2016 NIH R01 (PI: Kramer)
“Cognitive and Behavioral Control in FTD”

2011 -2012 UCSF Clinical and Translational Science Institute (CTSI) T1 Catalyst Award

2011 -2013 NIH R21 (PI: Gazzaley)
“Mechanisms of self-regulation of internal distraction”

Mentored Grants

2007 UCSF School of Medicine Dean's Summer Research
- Brian Toy (MD student)

2007 - 2009 University of California Office of the President's Postdoctoral Fellowship
- Wesley Clapp (Postdoc)

2007 - 2008 Sandler Research Fellowship
- Tim Verstynen (Postdoc)

2007 - 2008 Larry L. Hillblom Center for the Biology of Aging Research Fellowship
- James Chadick (graduate student)

2008 UCSF School of Medicine Dean's Summer Research
- Arul Thangavel (medical student)

2007 - present NIH Loan Repayment Program (LRP)
- Jacob Bollinger, Jon Kalkstein, Joaquin Anguera, Judy Pa, Ted Zanto

2008 - 2011 VA Research Fellowship
- Jonathan Kalkstein (Postdoc)

2008 - 2010 NIH ROI Minority Supplement
- Joaquin Anguera (Postdoc)

2010- 2013 IRACDA Scholars in Science (ISIS) Fellowship
- Joaquin Anguera (Postdoc)

2011- 2014 IRACDA Scholars in Science (ISIS) Fellowship
- Bradley Voytek (Postdoc)

2009 - 2012 NIH Postdoctoral NRSA Fellowship
- Ted Zanto (Postdoc)

2009 - 2014 NIH K08 - Career Development Award
- Judy Pa (Junior faculty)

2010 UCSF Postdoc research award (PDRA)
- Ted Zanto, Jyoti Mishra

2010 Post-doctoral breakthrough in Biomedical Research
- Jyoti Mishra (Postdoc)

2010 – 2011 Doris Duke Fellowship

2011 - 2016 - Arul Thangavel (Med Student)
NIH K99/R00 award
- Lisa Bauer (Postdoc)

Presentations by Invitation (221 presentations):

International= (I), National= (N), Regional= (R)

- 1997 (R) Hippocampus Club, Rockefeller University, NY
(N) American Association of Anatomists, Cajal Club, New Orleans, LA
- 2003 (R) Primary Care Practitioners, San Francisco, CA
- 2004 *10 presentations*
(R) Northern California Consortium, UCSF, CA
(R) Neuropsychology Conference, VA Medical Center, Martinez, CA
(R) Neurology conference, Woodstock, NY
(R) Internal medicine physicians conference, Woodstock, NY
(R) Memory and Aging Center Grand Rounds, UCSF, CA
(R) Neurology Grand Rounds, NYU, NY
(R) Translational Neuroscience Interdepartmental Seminar, Mount Sinai, NY
(R) Cognition & Perception Seminar, NYU Psychology & Center for Neural Science, NY
(R) Frontiers in Neurology and Neuroscience, UCSF, CA
(R) Center for Cognitive Neuroscience Seminar, Duke University, NC
- 2005 *25 presentations*
(R) University of Toronto, Dept of Psychology, Ebbinghaus Empire Lecturer, Canada
(R) UCSF Dept. of Physiology, CA
(R) San Francisco Psychiatric Society, CA
(R) Posit Science Corporation, San Francisco, CA
(R) Langlely Porter Psychiatric Institute, UCSF, CA
(R) Pfizer Regional District Meeting, Berkeley, CA
(R) Magnetic Resonance Unit, San Francisco VA Medical Center, CA
(R) Memory Disorders Research Society, Cermak Award Presentation, AZ
(R) University of Miami VA Medical Center, Geriatrics Grand Rounds, FL
(R) Psychology Dept., Stanford University, CA
(R) 15 Presentations to community physicians on the aging brain
- 2006 *31 presentations*
(I) Neurobiology of Aging Brain Symposium, Tasmania, Australia
(N) New York Academy of Sciences – Imaging and the Aging Brain, New York, NY
(R) UCSF VA Medical Center, Geriatrics Dept., San Francisco, CA
(R) California Pacific Medical Center, Psychiatry Dept Grand Rounds, San Francisco, CA
(R) Gladstone Institute of Neurological Disease, San Francisco, CA
(R) Earnest Gallo Clinic and Research Center, Emeryville, CA
(R) Interdisciplinary Forum on Cognitive Neuroscience and Neuroimaging, UCSF, CA
(R) Geriatrics Interest Group, UCSF, San Francisco, CA
(R) From Molecules to Medicine, UCSF, San Francisco, CA
(R) Smith-Kettlewell Eye Research Institute, CA
(R) Ask-a-Scientist Seminar, Bazaar Café, San Francisco, CA
(R) 20 Presentations to community physicians on the aging brain
- 2007 *21 presentations*
(N) NIH Cognitive Aging Summit, Washington DC
(N) West Coast Siemens fMRI Workshop, UCSF, CA

- (R) Cognitive Neuroscience Forum, University of California, Berkeley, CA
- (R) Grand Rounds, Peninsula Medical Center, Burlingame, CA
- (R) Brain and Cognition Seminar Series, University of Illinois, Champaign-Urbana, IL
- (R) Mount Sinai MSTP Student Career Seminar, NY
- (R) UCSF Memory and Aging Center Seminar, CA
- (R) Functional Imaging Symposium, presented by Gallo center and IND, CA
- (R) 13 Presentations to community physicians on the aging brain

2008 *24 presentations*

- (I) Human Brain Mapping Workshop, Melbourne, Australia
- (N) American Federation of Aging Research Annual Meeting, Santa Barbara, CA
- (R) McKnight Seminar Series, University of Arizona, AZ
- (R) Brain Mapping Seminar Series, UCLA, CA
- (R) Medical Advances that Will Shape our Future, San Francisco, CA
- (R) Mount Sinai Neurology Grand Rounds, NYC, NY
- (R) UCSF Memory and Aging Center Grand Rounds, CA
- (R) Aging Research Seminar Series, Stanford University, Veteran's Hospital, CA
- (R) Cognitive Neuroscience Forum, University of California, Berkeley, CA
- (R) Center for Learning in Retirement, San Francisco, CA
- (R) Brain Talk, Apple Store, San Francisco, CA
- (R) Brain Talk, Apple Store, Soho, NYC
- (R) UCSF Foundation, San Francisco, CA
- (R) Memory & the Aging Brain, Science Café, Atlas Café, San Francisco, CA
- (R) UCSF Neuroscience graduate program retreat, Monterey, CA
- (R) City College's Older Adults Department, The Sequoias, San Francisco, CA
- (R) 8 Presentations to community physicians on the aging brain

2009 *27 presentations*

- (I) Hippocampal Research Conference, Verona, Italy
- (I) Congress on Anti-Aging Medicine and Biomedical Technologies, Portugal
- (N) AcademiX 2009 (Apple): Technological Innovation and Education, Salt Lake City, UT
- (N) Association for Psychological Science – Invited Address, San Francisco, CA
- (N) Medical Education Conference (Apple), Cupertino, CA
- (R) Cognitive Neuroscience Seminar Series, Veteran's Hospital, Martinez CA
- (R) Formal Seminar Series, Buck Institute for Age Research, Marin, CA
- (R) Institute of Gerontology Colloquium Series, Wayne State, Detroit MI
- (R) Theravance, Inc., San Francisco, CA
- (R) Distinguished Speaker Colloquium, San Francisco State University, CA
- (R) Center for Brain Health, UT Dallas, TX
- (R) Cognitive Neuroscience Forum, University of California, Berkeley, CA
- (R) Rossmore Retirement Community, Walnut Creek, CA
- (R) Brain Health Symposium at the Commonwealth Club, San Francisco CA
- (R) AARP Annual meeting, LV, CA
- (R) Science Salon Series Talk, Vibrant Brains, San Francisco, CA
- (R) Lifelong, Living and Learning, Wellness Lecture Series, UCSF Foundation, San Francisco, CA
- (R) City College's Older Adults Department, The Sequoias, San Francisco, CA
- (R) Marin County Commission on Aging, Marin, CA
- (R) 8 Presentations to community physicians on the aging brain

2010 *32 presentations*

- (I) SharpBrains Virtual Summit: Technology for Cognitive Health and Performance
- (I) SPIE/HVEI International Conference, CA, USA

- (I) Frontal Lobe Conference, Toronto, Canada
- (I) Neurocognitive Networks 2010, Florida, USA
- (I) The Dallas Aging and Cognition Conference, Texas, USA
- (I) Symposium Chair & Presenter, Human Brain Mapping Meeting, Barcelona, Spain
- (I) Games for Health Conference, Boston USA
- (I) Gordon Conference, Inaugural meeting on the Neurobiology of Aging, Waterville Valley, NH
- (I) Neurocritical Care Society Annual meeting, San Francisco, CA
- (N) The Dallas Aging and Cognition Conference, Dallas, TX
- (N) Neurocognitive Networks meeting, Boca Raton, FLA
- (N) Ellison Foundation Colloquium on the Biology of Aging, Woods Hole, MA
- (N) AARP annual meeting, Orlando, FLA
- (N) Applied Brilliance Conference, Ojai, CA
- (N) Meeting for Apple engineers in education division, Cupertino, CA
- (R) Department of Psychology, UC Santa Barbara, CA
- (R) QB3-CCA Symposium, UCSF, CA
- (R) Department of Psychology, Yale University, CA
- (R) Department of Psychology, Harvard University, Boston, MA
- (R) Brain Aging Neuroimaging Group, Mass General Hospital, Boston, MA
- (R) Communications Department, Stanford University, CA
- (R) Neurosurgery Grand Rounds, UCSF, CA
- (R) The San Francisco Writer's Grotto, SF, CA
- (R) Health & Wellness for older adults, Jewish Community Center, SF CA
- (R) Villa Marin Retirement Community, Marin, CA
- (R) Science Salon Series Talk, Vibrant Brains, Foster City Jewish Community Center, CA
- (R) San Francisco Public Library, SF, CA
- (R) UCSF Neuroscience graduate program retreat, Monterey, CA
- (R) Molecules to Medicine Symposium, UCSF, CA
- (R) Osher Lifelong Learning Institute, San Francisco State University, CA
- (R) fMRI Speaker Series, University of Michigan, IL
- (R) Nerd Nite, SF, CA

2011 48 presentations

- (I) Dallas Aging and Cognition Conference, Texas
- (I) SharpBrains Virtual Summit
- (I) German Science Foundation – Aging Workshop, Berlin, Germany
- (I) International Joint Conference on Neural Networks- “From Brains to Machines”, San Jose, Ca
- (I) Entertainment Software and Cognitive Neurotherapeutics Society Meeting (ESCoNS), SF, CA
- (I) International Cognitive Neuroscience Society Meeting, Cognitive Aging Symposium, Spain
- (I) International Cognitive Neuroscience Society Meeting, Working Memory and Attention Symposium, Spain
- (I) Games for Health Europe, Keynote, Amsterdam, NL
- (N) Multitasking Meeting, Stanford University, CA
- (N) Learning & the Brain Conference: Igeneration meeting, SF, CA
- (N) TEDx San Jose, CA
- (N) National Science Teacher's Association, SF, CA
- (N) KQED Lecture, SF, CA
- (N) Puretech Ventures, Boston, CA
- (N) AARP annual meeting, Los Angeles, FLA
- (N) Mind Matters – Proctor & Gamble, Cincinnati, OH
- (N) CNS Summit, FLA
- (R) Career Development meeting, University of California, Berkeley, CA

- (R) Department of Psychology, Brandeis University, MA
- (R) McGovern Institute Symposium, MIT, MA
- (R) Applied Brilliance Salon: The shape of the Future, SF, CA
- (R) Puretech Ventures, Boston, CA
- (R) SF Neurological Society Annual Meeting, Monterey, CA
- (R) Cognitive Control Conference, UC Berkeley, Berkeley, CA
- (R) UCSF Memory and Aging Center Grand Rounds, SF, CA
- (R) Alzheimer's Association Northern CA, Santa Cruz, CA
- (R) Wirehead Talkback, SF Playhouse, SF, CA
- (R) Mini-medical school, UCSF, CA
- (R) Personalized Health Project Summit, SF CA
- (R) Siemens Headquarters, Erlangen, Germany
- (R) Research Centre Jülich, Germany
- (R) German Center for Neurodegenerative Diseases (DZNE) - Bonn, Germany
- (R) Max Planck Institute for Human Development, Berlin, Germany
- (R) Postdoctoral Fellow Bootcamp, UCSF, SF, CA
- (R) Commonwealth Club, SF, CA
- (R) TechCentralSF, Gamification Panel, SF, CA
- (R) Langley Porter Neuroscience Seminar Series, UCSF, SF, CA
- (R) PACCTR Seminar, UCSF, SF, CA
- (R) Department of Psychology, University of Amsterdam, NL
- (R) Department of Neurology and Neurological Sciences, Stanford University, CA
- (R) Commonwealth Club of California, Social Networking and the Brain, SF, CA
- (R) Mini-medical school, UCSF, CA
- (R) Retraining the Brain, UCSF, CA
- (R) Neuroscience & Psychology, Florida Atlantic University, FLA
- (R) York House High School, Vancouver, Canada
- (R) Brain Research Center, University of British Columbia, Canada
- (R) Max Planck Institute for Human Development, Berlin, Germany
- (R) Grattan Elementary School, SF, CA

Published Profiles:

The Cortical Scholar Prize: Dr. Adam Gazzaley” Cerebral Cortex 7(5): 472 (1997)
 Focusing on the Big Picture. Chen, I. Science's SAGE KE (10 September 2003).
 Apple Video Profile. <http://www.apple.com/science/#gazzaley>

Media Coverage (http://gazzlab.com/site_news.html):

2005	ABC News Forbes Magazine	BBC News	webMD
2006	Wall Street Journal	ABC News	
2007	Wired Magazine		
2008	TIME Magazine PBS Science Special The Guardian UK NPR	Wall Street Journal Scientific American Mind Telegraph UK	NBC Nightly News CBC Radio Popular Photography
2009	Discover Magazine San Francisco Magazine	The Today Show User Experience Magazine	BBC World Service News
2010	New York Times (X3) KALW radio	CNN/KSRO radio NPR- Science Friday	Contra Costa Times WPR

	Globe and Mail	SELF magazine	Oprah Magazine
	PBS Science Special	Discover Magazine	
2011	KQED Radio (X3)	SF Chronicle (X4)	CNN.com (X3)
	New York Times	TIME	MSNBC
	Science Magazine	US News & World Report	Telegraph
	CNN Live National TV	LiveScience	LA Times
	Wired	CBS News Radio	WebMD
	USA Today	Miami Herald	Sun Vancouver
	New York Post	Processor Magazine	KALW public radio
	Nature neuropod	AARP Radio	Dana Foundation website
	Alzforum news	Futures in Biotech	UCSF News

Gazzaley Lab Research Program

Research in our laboratory focuses on understanding of the neural mechanisms of top-down modulation (specifically, interactions between attention, perception and memory), alterations that occur in normal aging and early dementia, and how we may intervene therapeutically when deficits exist. To accomplish this, we couple novel cognitive paradigms designed in the lab with human neurophysiologic techniques: functional magnetic resonance imaging (fMRI), electroencephalography (EEG) and transcranial magnetic stimulation (TMS).

Research Publications (<http://gazzlab.com/publications.html>):

1. **Gazzaley, A.**, Siegel, S.J., Kordower, J.H., Mufson, E.J. and Morrison, J.H. Circuit-specific alterations of N-methyl-D-aspartate receptor subunit 1 in the dentate gyrus of aged monkeys. Proceedings of the National Academy of Science USA 93(7): 3121-5 (1996)
2. **Gazzaley, A.**, Weiland, N.G., McEwen, B.S. and Morrison, J.H. Differential regulation of NMDAR1 mRNA and protein by estradiol in the rat hippocampus. Journal of Neuroscience 16(21): 6830-8 (1996)
3. **Gazzaley, A.**, Benson, D.L., Huntley, G.W. and Morrison, J.H. Differential subcellular regulation of NMDAR1 protein and mRNA in dendrites of dentate gyrus granule cells after perforant path transection. Journal of Neuroscience 17(6): 2006-17 (1997)
4. **Gazzaley, A.**, Thakker, M.M., Hof, P.R. and Morrison, J.H. Preserved number of entorhinal cortex layer II neurons in aged macaque monkeys. Neurobiology of Aging 18(5): 549-53 (1997)
5. Adams, M.M., **Gazzaley, A.** and Morrison, J.H. Attenuated lesion-induced N-methyl-D-aspartate receptor (NMDAR) plasticity in the dentate gyrus of aged rats following perforant path lesions. Experimental Neurology 172(1): 244-9 (2001)
6. Rissman, J., **Gazzaley, A.** and D'Esposito, M. Measuring functional connectivity during distinct stages of a cognitive task. Neuroimage 23(2), 752-763 (2004)
7. **Gazzaley, A.**, Rissman, J. and D'Esposito, M. Functional Connectivity during working memory maintenance. Cognitive, Affective and Behavioral Neuroscience 4(4), 580-599 (2004)
8. **Gazzaley, A.**, Cooney, J.W., McEvoy, K., Knight, R. and D'Esposito, M. Top-down enhancement and suppression of the magnitude and speed of neural activity. Journal of Cognitive Neuroscience. 17(3), 507-517 (2005)
9. **Gazzaley, A.**, Cooney, J.W., Rissman, J. and D'Esposito, M. Top-down suppression deficit underlies working memory impairment in normal aging. Nature Neuroscience 8(10), 1298-1300b(2005)

10. D'Esposito, M., Cooney, J.W., Postle, B.R., **Gazzaley, A.** and Gibbs, S.E. The role of the prefrontal cortex on component processes of working memory: Evidence from lesion and fMRI data. Journal of the International Neuropsychological Society 12(2), 248-260 (2006)
11. Huh, T., Kramer, J., **Gazzaley, A.** and Delis, D. Response bias and aging on a recognition memory task. Journal of the International Neuropsychological Society 12(1), 1-7 (2006)
12. Handwerker, D.A., **Gazzaley, A.**, Inglis, B. and D'Esposito, M. Reducing Vascular Variability of fMRI Data across Aging Populations Using a Breathholding Task. Human Brain Mapping. 28(9): 846-59 (2006)
13. Krawczyk, D.C., **Gazzaley, A.** and D'Esposito, M. Reward modulation of visual association cortex during an incentive working memory task. Brain Research 1141:168-177 (2007)
14. **Gazzaley, A.**, Sheridan, M.A., Cooney, J. and D'Esposito, M. Age-related deficits in component processes of working memory. Neuropsychology 21(5): 532-539(2007)
15. **Gazzaley, A.**, Rissman, J., Cooney, J.W., Rutman, A., Seibert, T., Clapp, W. and D'Esposito, M. Functional interactions between prefrontal and visual association cortex contribute to top-down modulation of visual processing. Cerebral Cortex 17:i125-i135 (2007)
16. Rissman, J., **Gazzaley, A.** and D'Esposito, M. Dynamic adjustments in frontal, hippocampal, and inferior temporal interactions with increasing visual working memory load. Cerebral Cortex 18(7): 1618-29 (2007)
17. **Gazzaley, A.**, Clapp, W., Kelley, J., McEvoy, K., Knight, R. and D'Esposito, M. Age-related top-down suppression deficit in the early stages of cortical visual memory processing. Proceedings of the National Academy of Science USA 105(35): 13122-13126 (2008)
18. Zanto, T. and **Gazzaley, A.** Neural suppression of irrelevant information underlies optimal working memory performance. Journal of Neuroscience 29 (10): 3059-3066 (2009)
19. Rissman, J., **Gazzaley, A.** and D'Esposito, M. The effect of non-visual working memory load on top-down modulation of visual processing. Neuropsychologia 47 (7): 1637-1646 (2009)
20. Pa, J., Boxer, A.L., Freeman, B.S., **Gazzaley, A.**, Kramer, J., Miller, B.L., Chao, L.L., Weiner, M.D., Neuhaus, J. and Johnson, J.K., Clinical and neuroimaging characteristics of dysexecutive mild cognitive impairment. Annals of Neurology 65: 414-423 (2009)
21. Morsella, E., & Lanska, M., Berger, C. C. and **Gazzaley, A.** Indirect cognitive control through top-down activation of perceptual symbols. European Journal of Social Psychology 39, 1173-1177 (2009).
22. Rutman, A.M., Clapp, W.C., Chadick, J.Z. and **Gazzaley, A.** Early top-down control of visual processing predicts working memory performance. Journal of Cognitive Neuroscience 22(6); 1224-1234 (2009)
23. Morsella, E., Wilson, L.E., Berger, C.C., Honhongva, M., **Gazzaley, A.** and Bargh, J.A. Subjective aspects of cognitive control at different stages of processing: Conscious conflict and double-blindness. Attention, Perception, & Psychophysics 71: 1807-1824 (2009)
24. Berry, A.S., Zanto, T.P., Rutman, A.M., Clapp, W.C. and **Gazzaley, A.** Practice-related improvement in working memory is modulated by changes in processing external interference. Journal of Neurophysiology 102(3): 1779-1789 (2009)
25. Clapp, W., Rubens, M.T. and **Gazzaley, A.** Mechanisms of working memory disruption by external interference. Cerebral Cortex 20(4): 859-72 (2010)
26. Zanto, T., Toy, B. and **Gazzaley, A.** Delays in neural processing during working memory encoding in normal aging. Neuropsychologia 48(1): 13-25 (2010)

27. Zanto, T., Hennigan, K., Ostberg, M., Clapp, W. and **Gazzaley, A.** Predictive knowledge of stimulus relevance does not influence top-down suppression of irrelevant information in older adults. Cortex 46 (4): 564-574 (2010)
28. Clapp, W. and **Gazzaley, A.** Distinct mechanisms for the impact of distraction and interruption on working memory in aging. Neurobiology of Aging 33: 134-148 (2010)
29. Wais, P., Rubens, M., Boccanfuso, J. and **Gazzaley, A.** Neural Mechanisms Underlying the Impact of Visual Distraction on Long-Term Memory Retrieval. Journal of Neuroscience 30(25): 8541-8550 (2010)
30. Berry, A., Zanto, P. Clapp, W., Hardy, J., Delahunt, P., Mahncke, H. and **Gazzaley, A.** The Influence of Perceptual Training on Working Memory in Older Adults PLoS ONE 5(7): e11537. doi:10.1371/journal.pone.0011537 (2010)
31. Zanto, T. Rubens, M. and **Gazzaley, A.** The inferior frontal junction and top-down modulation of visual feature processing. Neuroimage 53: 736-745 (2010)
32. Bollinger, J., Rubens, M., Zanto, T.P. and **Gazzaley, A.** Expectation-driven changes in cortical functional connectivity influence working-memory and long-term memory performance. Journal of Neuroscience 30: 14399-14410 (2010)
33. Wendelken, C., Baym, C.L., **Gazzaley, A.** and Bunge, S.A. Neural evidence of weaker attentional modulation in children relative to young adults. Developmental Cognitive Neuroscience 1: 175-186 (2011)
34. Bollinger, J., Rubens, M., Masangkay, E., Kalkstein, J. and **Gazzaley, A.** An expectation-based memory deficit in aging. Neuropsychologia 49: 1466-1475 (2011)
35. Zanto, T., Rubens, M., Thangavel, A. and **Gazzaley, A.** Causal role of the prefrontal cortex in top-down modulation of visual processing and working memory. Nature Neuroscience 14: 656-661 (2011)
36. Clapp, W., Rubens, M. and **Gazzaley, A.** Deficit in switching between functional brain networks underlies the impact of multitasking on working memory in older adults. Proceedings of the National Academy of Science USA 108: 7212–7217(2011)
37. Chadick, J.Z. and **Gazzaley, A.** Differential coupling of visual cortical areas with the default network or frontal-parietal network based on task goals. Nature Neuroscience 14: 830-2 (2011)
38. Hubbard, J., **Gazzaley, A.** and Morsella, E. Traditional response interference from anticipated action outcomes: A response-effect compatibility paradigm. Acta Psychologica 138: 106-110 (2011)
39. Wais, P., Kim, O. and **Gazzaley, A.** Distractibility during Episodic Retrieval Is Exacerbated by Perturbation of Left Ventrolateral Prefrontal Cortex Cerebral Cortex (2011)
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