

## CURRICULUM VITAE

NAME: Rex Eugene Jung, Ph.D.

ADDRESS: Brain and Behavioral Associates, PC  
1014 Lomas Blvd. NW  
Albuquerque, New Mexico 87102

TELEPHONE: (505) 243-0335

WEBSITES: <http://www.rexjung.com>  
<http://www.brainandbehavioral.com>

### Education

1986	B.S.	University of Colorado, Boulder, Colorado (Cum Laude)
1994 – 2001	Ph.D.	University of New Mexico, Albuquerque, NM (APA Approved) Specialization: Clinical Neuropsychology
2001	Internship	Baylor College of Medicine, Houston, Texas (APA Approved) Departments: Neurosurgery and Behavioral Medicine Specialization: Clinical Neuropsychology
2001 – 2003	Post Doc	Department of Psychiatry Research, University of New Mexico Health Sciences Center, Albuquerque, NM Specialization: Clinical Neuropsychology

### Licensure

2002	New Mexico	Clinical Psychology (#0880)
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### Patents

2004	#6708053	Brooks, Jung, et al., <i>Biochemical Markers of Brain Function</i>
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### Academic and Research Positions

2003 – 2006	Assistant Research Professor, <i>Department of Neurology</i> , University of New Mexico Health Sciences Center, Albuquerque
2006 – 2008	Research Scientist, <i>The Mental Illness and Neuroscience Discovery (MIND) Institute</i> , Domenici Hall, Albuquerque, NM
2008 – 2015	Assistant Professor, <i>Department of Neurosurgery</i> , University of New Mexico Health Sciences Center, Albuquerque
2015 – Present	Clinical Assistant Professor, <i>Department of Neurosurgery</i> University of New Mexico, Albuquerque, New Mexico

### Membership in Scientific and Professional Societies

1994 –	American Psychological Association – Division 40 (Neuropsychology)
2003 –	International Society for Intelligence Research (ISIR)
2005 –	American Academy of Neuropsychology (AAN)
2015 –	Founding Member – Society for the Neuroscience of Creativity (SNC)
2017 –	New Mexico Psychological Association
2017 –	Heterodox Academy

### Editorial Boards

2013 –	<i>Intelligence – Associate Editor</i>
2014 –	<i>Public Library of Science ONE – Academic Editor</i>
2014 –	<i>International Journal of Personality Psychology – Associate Editor</i>

### **Selected Editorial and Reviewer Positions (*Ad Hoc*)**

*American Journal of Psychiatry, Behavioral and Brain Sciences, Biological Psychiatry, BMC Neuroscience, Brain and Cognition, Brain Imaging and Behavior, Brain Research, Brain Stimulation, Brain Structure and Function, British Journal of Psychology, Cerebral Cortex, Cognition, Cognitive Affective & Behavioral Neuroscience, Cognitive and Behavioral Neurology, Cognitive Neuroscience, Cortex, Experimental Neurology, Frontiers in Neuroscience, Frontiers in Psychology, Human Brain Mapping, Journal of Cognitive Neuroscience, Journal of Creative Behavior, Journal of the International Neuropsychological Society, Journal of Experimental Psychology: General, Journal of Neuroscience, Journal of Psychiatry and Neuroscience, Journal of Psychosomatic Research, Molecular Psychiatry, Nature Protocols, Neurobiology of Aging, NeuroImage, Neuropsychologia, Neuropsychopharmacology, Neuroscience and Biobehavioral Reviews, Neuroscience Letters, Perspectives on Psychological Science, Proceedings of the National Academy of Sciences of the United States of America, Proceedings of the Royal Society of London – B: Biological Sciences, Public Library of Science ONE, Psychiatry Research: Neuroimaging, Psychology and Neuroscience, Psychonomic Bulletin & Review, Scientific Reports, Social Cognitive and Affective Neuroscience, Social Neuroscience, Trends in Cognitive Sciences*

### **Scientific Review (*Ad Hoc*)**

*Austrian Science Fund  
Israel Science Foundation  
Lupus Foundation of America  
John Templeton Foundation  
National Science Foundation  
National Endowment for the Arts*

### **Committee, Leadership, and Board Membership**

2009 – 2010 Member – Advanced Concepts Group, Sandia National Laboratory  
2009 Distinguished Senior Advisor – Positive Neuroscience Project; University of Pennsylvania & John Templeton Foundation  
2010 Member Review Group - WHO International Advisory Group for the Revision of ICD-10 Mental and Behavioral Disorders: Working Group on the Classification of Intellectual Disabilities  
2011 – 2012 Secretary – Psychiatric MR Spectroscopy and Imaging Study Group: International Society for Magnetic Resonance in Medicine  
2013 Nominations and Elections Committee – International Society for Intelligence Research  
2014 – 2017 Advisory Board Member – Imagination Institute; University of Pennsylvania and John Templeton Foundation  
2015 Co Host – International Society for Intelligence Research: 16<sup>th</sup> Annual Meeting, Albuquerque, New Mexico, Hotel Andaluz  
2017 – New Mexico Medical Board Impaired Physician Committee (IPC)

### **Grants Received – (\$3,225,024 as *Principle Investigator*)**

2007 – 2010 John Templeton Foundation #12456, *The Neuroscience of Creativity*  
Role: Principle Investigator; \$600,770  
2008 Blue Planet Software, *The Neuroscience of Tetris*  
Role: Principle Investigator; \$90,000  
2009 – 2011 DARPA/DOD, *Brain Stimulation to Accelerate Learning of Threat Detection Phase II*, (Michael Weisend: PI)  
Role: Co-Investigator; \$3,804,403

- 2009 – 2012 National Institute of Mental Health #1P20 RR021938-01A2: *Fronto-subcortical Disconnection Underlying Neurocognitive Dysfunction in Schizophrenia*  
Role: Principle Investigator; \$920,937
- 2012 Johnson O'Connor Research Support Corporation: *Neuroscience of Aptitude*  
Role: Principle Investigator; \$98,000
- 2012 – 2015 John Templeton Foundation #22156: *The Neuroscience of Scientific Creativity*  
Role: Principle Investigator; \$1,014,842
- 2014 – 2015 National Endowment for the Arts #14-3800-7003– *Transfer Effects of Music on Brain Structure and Function*  
Role: Co-Principle Investigator; \$15,000
- 2014 – 2016 Johnson O'Connor Research Support Corporation: *A Twin Study of Aptitude*  
Role: Principle Investigator; \$300,000
- 2016 – 2019 United States Army Research Institute for the Behavioral and Social Sciences (ARI): *Predicting Performance from Network Data* (David Dunson: PI)  
Role: Co-Principle Investigator; \$48,438
- 2017 – 2020 Johnson O'Connor Research Support Corporation: *Structural Neuroimaging and Neuropsychological correlates of Aptitude*  
Role: Principle Investigator, \$200,475
- 2018 – 2021 (Pending) Development of Efficient Assessment Tools for the Identification and Advancement of Innovative & Adaptive Leaders in an Agile Force  
Role: Co Investigator, \$852,365

### Peer Reviewed Publications

Citation metrics (Google Scholar): h-index = 40; 6700+ citations; <sup>1+</sup>cited 100 – 199 times; <sup>2+</sup>cited 200 – 299 times; <sup>3+</sup>cited 300 – 399 times; <sup>4+</sup>cited 400-499 times; <sup>8+</sup>cited 800+ times

#### 1994

1. Giambra LM, Wise K, Rosenberg EH, **Jung RE**. (1994). The Influence of Caffeine Arousal on the Frequency of Task-Unrelated Image and Thought Intrusions. *Imagination, Cognition, and Personality*. 13(3): 215-223.

#### 1995

2. Ciesielski KT, Waldorf AV, **Jung RE**. (1995). Anterior Brain Deficits in Chronic Alcoholism: Cause or Effect? *Journal of Nervous and Mental Disease*. 183(12):756-61.

#### 1996

3. Giambra LM, **Jung RE**, Grodsky, A. (1996). Age Changes in Dream Recall in Adulthood. *Dreaming*, 6(1):17-31.

#### 1998

4. <sup>1+</sup>Friedman SD, Brooks WM, **Jung RE**, Hart BL, & Yeo RA. (1998) Proton MR Spectroscopic Findings Correspond to Neuropsychological Function in Traumatic Brain Injury. *American Journal of Neuroradiology*. 19(10):1879-1885.

#### 1999

5. Brooks WM, **Jung RE**, Ford CC, Greinel EJ, & Sibbitt WL. (1999). Relationship Between Neurometabolite Derangement & Neurocognitive Dysfunction in Systemic Lupus Erythematosus. *Journal of Rheumatology*. 26(1):81-85.
6. Sibbitt WL Jr., **Jung RE**, Brooks WM. (1999) Neuropsychiatric Systemic Lupus Erythematosus. *Comprehensive Therapy*. 25(4):198-208.
7. <sup>2+</sup>Friedman SD, Brooks WM, **Jung RE**, Chiulli SJ, Sloan JH, Montoya BT, Stidley CA, Hart BL, Yeo RA. (1999). Quantitative 1H-MRS Predicts Outcome Following Traumatic Brain Injury. *Neurology*. 52(7): 1384-1391.

8. <sup>1+</sup>**Jung RE**, Brooks WM, Yeo RA, Chiulli SJ, Weers D, & Sibbitt WL. (1999). Biochemical Markers of Intelligence: A Proton MR Spectroscopy Study of Normal Human Brain. *Proceedings of the Royal Society of London - Biological Sciences*. 266(1426): 1375-1379.
9. **Jung RE**, Yeo RA, Chiulli SJ, Sibbitt WL, Weers DC, Hart BL, & Brooks WM. (1999). Biochemical Markers of Cognition: A Proton MR Spectroscopy Study of Normal Human Brain. *Neuroreport*. 10(6): 3327-3331.

#### 2000

10. **Jung RE**, Yeo RA, Chiulli SJ, Sibbitt WL, & Brooks WM. (2000). Myths of Neuropsychology: Intelligence, Neurometabolism and Cognitive Ability. *The Clinical Neuropsychologist*. 14(4): 535-545.
11. **Jung RE**, Yeo RA, Gangestad S. (2000). Developmental Instability Predicts Individual Variation in Verbal Memory Skill After Caffeine Ingestion. *Neuropsychiatry, Neuropsychology, and Behavioral Neurology*. 13(3):195-198.
12. <sup>1+</sup>Brooks WM, Stidley CA, Petropoulos H, **Jung RE**, Weers DC, Friedman SD, Barlow MA, Sibbitt WL, & Yeo RA. (2000). Metabolic and cognitive response to human traumatic brain injury: a quantitative proton magnetic resonance study. *Journal of Neurotrauma*. 17(8): 629-640.

#### 2001

13. **Jung RE**, Yeo RA, Sibbitt Jr. WL, Ford CC, Hart BL, & Brooks WM. (2001). Gerstmann Syndrome in Systemic Lupus Erythematosus: Neuropsychological, Neuroimaging and Spectroscopic Findings. *Neurocase*. 7(6): 101-107.
14. Bustillo JR, Lauriello J, Rowland L, **Jung RE**, Petropoulos H, Hart B, Blanchard J, Keith S, Brooks WM. (2001). Effects of Chronic Haloperidol and Clozapine Treatments on Frontal and Caudate Neurochemistry in Schizophrenia. *Psychiatry Research: Neuroimaging*. 107(3): 135-149.

#### 2002

15. **Jung RE**, Yeo RA, Love TM, Petropoulos H, Sibbitt WL, & Brooks WM. (2002). Biochemical Markers of Mood: A Proton MR Spectroscopy Study of Normal Human Brain. *Biological Psychiatry*. 51(3): 224-229.

#### 2004

16. Hill DE, Ciesielski KT, Hart BL, & **Jung RE**. (2004). MRI Morphometric and Neuropsychological Correlates of Long-term Memory in Survivors of Childhood Leukemia. *Pediatric Blood & Cancer*. 42(7): 611-7.
17. <sup>4+</sup>Haier RJ, **Jung RE**, Yeo RA, Head K, & Alkire MT. (2004). Structural Brain Variation and General Intelligence. *NeuroImage*. 23(1):425-433.

#### 2005

18. <sup>2+</sup>Rowland LM, Bustillo JR, Mullins PG, **Jung RE**, Lenroot R, Landgraf E, Barrow R, Yeo RA, Lauriello J, & Brooks WM (2005). Effects of Ketamine on Anterior Cingulate Glutamatergic Activity in Healthy Humans: A 4.0T Proton MRS Study. *American Journal of Psychiatry*. 162(2):394-396.
19. <sup>3+</sup>Haier RJ, **Jung RE**, Yeo RA, Head K, & Alkire MT. (2005). The neuroanatomy of general intelligence: sex matters. *NeuroImage*. 25(1): 320-327.
20. <sup>1+</sup>Rowland LM, Astur RS, **Jung RE**, Bustillo JR, Lauriello J, & Yeo RA. (2005). Selective Cognitive Impairments Associated with NMDA Receptor Blockade in Humans. *Neuropsychopharmacology*. 30(3): 633-639.
21. Mullins PG, Rowland LM, **Jung RE**, & Sibbitt WL. (2005). A novel technique to study the brain's response to pain: Proton MRS. *NeuroImage*. 26(2):642-646.
22. Haier RJ, **Jung RE**, Yeo RA, Head K, & Alkire MT. (2005). Structural brain variation, age, and response time. *Cognitive, Affective, and Behavioral Neuroscience*. 5(2):246-251.
23. <sup>1+</sup>**Jung RE**, Haier RJ, Yeo RA, Rowland LM, Petropoulos H, Levine AS, Sibbitt WL, & Brooks WM. (2005). Sex Differences in N-acetylaspartate Correlates of General Intelligence: A 1H-MRS Study of Normal Human Brain. *NeuroImage*. 26(3):965-972.

## 2006

24. Yeo RA, Brooks WM, **Jung RE**. (2006). NAA and Higher Cognitive Function in Humans. In Moffett J, Tieman S, Weinberger DR, Coyle JT, & Namboodiri AMA (Eds.). *N-acetylaspartate: A Unique Neuronal Molecule in the Central Nervous System*. Springer: New York.
25. Yeo RA, Phillips JP, **Jung RE**, Brown AJ, Campbell RC, & Brooks WM. (2006). Magnetic resonance spectroscopy detects brain injury and predicts cognitive functioning in children with brain injuries. *Journal of Neurotrauma*, 23(10):1427-35.
26. Yeo RA, **Jung RE**, Brooks WM. (2006). NAA and Higher Cognitive Function in Humans. *Advances in Experimental Medicine and Biology* 576: 215-226.
27. Colom R, **Jung RE**, Haier RJ. (2006). Finding the General Factor of Intelligence (g) in the Brain. *Intelligence*, 34(6): 561-570.
28. <sup>1+</sup>Gasparovic C, Song T, Devier D, Bockholt J, Caprihan A, Mullins PG, Posse S, **Jung RE**, & Morrison L. (2006). The use of tissue water as a concentration reference for proton spectroscopic imaging. *Magnetic Resonance in Medicine*. 55(6):1219-26.
29. <sup>1+</sup>Colom R, **Jung RE**, Haier RJ. (2006). Distributed Brain Sites for the g-factor of Intelligence. *NeuroImage*. 31(3):1359-65.

## 2007

30. <sup>8+</sup>**Jung RE**, & Haier RJ. (2007). The Parieto-Frontal Integration Theory (P-FIT) of Intelligence: Converging Neuroimaging Evidence. *Behavioral and Brain Sciences*, 30(2): 135-154. [Altmetric = 26](#)
31. Haier RJ, & **Jung RE** (2007). Beautiful Minds (i.e. Brains) and the Neural Basis of Intelligence: Response to Commentaries. *Behavioral and Brain Sciences*, 30(2): 174-178.
32. <sup>1+</sup>Colom R, **Jung RE**, Haier RJ. (2007). General Intelligence and memory span: Evidence for a common neuro-anatomic framework. *Cognitive Neuropsychology*, 24(8): 867-878.
33. Johnson W, **Jung RE**, & Haier RJ. (2007). Psychometric dimensions of cognition other than general intelligence correlate to regional brain structure. *Intelligence*. 36(1): 18-28.

## 2008

34. Haier RJ & **Jung RE**. (2008). Brain Imaging Studies of Intelligence and Creativity: What is the Picture for Education? *Roeper Review*, 30(3): 171-180.
35. Bustillo JR, Rowland LM, **Jung RE**, Brooks WM, Qualls C, Hammond R, Hart B, & Lauriello J. (2008) Proton magnetic resonance spectroscopy during the first year of antipsychotic treatment in schizophrenia. *Neuropsychopharmacology*, 33(10): 2456-66.
36. Franco AR, Ling J, Caprihan A, Calhoun VC, **Jung RE**, Heilman G, & Mayer AR, (2008). Multimodal and Multi-tissue Measures of Connectivity Revealed by Joint Independent Component Analysis. *IEEE Journal of Selected Topics in Signal Processing*, 2(6): 986-997.

## 2009

37. Segall JM, Turner JA, van Erp GM, White T, Bockholt HJ, Gollub RL, Ho BC, Magnotta V, **Jung RE**, McCarley RW, Schulz SC, Lauriello J, Clark VP, Voyvodic JT, Diaz MT, & Calhoun VD. (2009). Voxel-based Morphometric Multi-site Collaborative Study on Schizophrenia, *Schizophrenia Bulletin*, 35(1): 82-95.
38. <sup>1+</sup>Haier RJ, Karama S, Leyba L, **Jung RE**. (2009). MRI assessment of cortical thickness and functional activity changes in adolescent girls following three months of practice on a visual-spatial task, *BMC Research Notes*, 2:174. [Altmetric = 88](#)
39. **Jung RE**, Gasparovic C, Chavez RS, Caprihan A, Barrow R, & Yeo RA. (2009). Imaging Intelligence with Proton Magnetic Resonance Spectroscopy. *Intelligence*, 37(2): 192-198.
40. <sup>1+</sup>Colom R, Haier RJ, Head K, Alvarez-Linera J, Quiroga MA, Shih PC, & **Jung RE**, (2009). Gray Matter Correlates of Fluid, Crystallized, and Spatial Intelligence: Testing the P-FIT Model. *Intelligence*, 37(2): 124-135.
41. **Jung RE**, Gasparovic C, Chavez RS, Flores RA, Smith SM, Caprihan A, Yeo RA, (2009), Biochemical Support for the "Threshold" Theory of Creativity: A Magnetic Resonance Spectroscopy Study, *Journal of Neuroscience*, 29(16):5319-5325. [Altmetric = 16](#)

## 2010

42. Michael AM, Baum SA, Demerci O, Segall J, **Jung RE**, Clark VP, Bockholt HJ, Gollub RL, Roffman JL, Ho B, Andreasen NC, Lim KO, White T, Schulz SC, Calhoun VD. (2010). Does Function Follow Form?: Methods to Fuse Structural and Functional Brain Images Show Decreased Linkage in Schizophrenia, *NeuroImage*, 49(3):2626-37.
43. <sup>2+</sup>**Jung RE**, Segall JM, Bockholt HJ, Chavez RS, Flores R, & Haier RJ. (2010). Neuroanatomy of Creativity, *Human Brain Mapping*, 31(3):398-409. [Altmetric = 12](#)
44. **Jung RE**, Grazioplene R, Caprihan A, Chavez RS, & Haier RJ. (2010). White matter integrity, creativity, and psychopathology: Disentangling constructs with diffusion tensor imaging, *Public Library of Science ONE*, 5(3): e9818. doi:10.1371/journal.pone.0009818. [Altmetric = 38](#)
45. **Jung RE**, Segall JM, Grazioplene RG, Qualls C, Sibbitt WL, Roldan CA. (2010). Cortical Thickness and Subcortical Gray Matter Reductions in Neuropsychiatric Systemic Lupus Erythematosus, *Public Library of Science ONE*, 5(3): e9302. doi:10.1371/journal.pone.0009302
46. Sponheim SR, **Jung RE**, Seidman LJ, Mesholam-Gateley R, Manoach DS, O'Leary DS, Ho BC, Andreasen NC, Lauriello J, Schulz SC. (2010). Cognitive Deficits in First-Episode and Chronic Schizophrenia. *Journal of Psychiatric Research*, 44(7): 421-8.
47. <sup>1+</sup>Bustillo JR, Rowland LM, Mullins PG, **Jung RE**, Chen H, Qualls C, Hammond R, Brooks WM, & Lauriello J. (2010). 1H-MRS at 4 Tesla in Minimally Treated Early Schizophrenia. *Molecular Psychiatry*, 15(6): 629-36.
48. Brooks WM, Sibbitt WL, Kornfeld M, **Jung RE**, Bankhurst AD, & Roldan CA (2010). The Histopathologic Associates of Neurometabolite Abnormalities in Fatal Neuropsychiatric Systemic Lupus Erythematosus, *Arthritis and Rheumatism*, 62(7): 2055-2063.
49. **Jung RE**, Caprihan A, Chavez RS, Flores RA, Sharrar J, Qualls C, Sibbitt WJ, Roldan CA. (2010). Diffusion Tensor Imaging in Neuropsychiatric Systemic Lupus Erythematosus, *BMC Neurology*, 10(65):65.
50. <sup>1+</sup>Arden R, Chavez RC, Grazioplene R, & **Jung RE**. (2010). Neuroimaging Creativity: a psychometric view. *Behavioural Brain Review*. 214(2):143-156. [Altmetric = 10](#)

## 2011

51. Colom R, Karama S, **Jung RE**, Haier RJ. (2011). Human Intelligence and Brain Networks. *Dialogues in Clinical Neuroscience*, 12(3): 489-501.
52. White T, Magnotta V, Bockholt HJ, Williams S, Gollub RL, Mueller B, Ho BC, **Jung RE**, Clark VC, Lauriello J, Bustillo JR, Schulz SC, Andreasen NC, Calhoun VC, & Lim KO. (2011). Global White Matter Abnormalities in Schizophrenia: A Multicenter Diffusion Tensor Imaging Study. *Schizophrenia Bulletin*, 37(1): 222-32.
53. Yeo RA, Arden R, & **Jung RE**. (2011). Intelligence in Alzheimer's Disease. *Current Alzheimer's Research*, 8(4): 345-53.
54. Bullard L.M., Browning E.S., Clark V.P., Coffman B.A., Garcia C.M., **Jung R.E.**, van der Merwe A.J., Paulson K.M., Vakhtin A.A, Wootton C.L., Weisend M.P. (2011). Transcranial Direct Current Stimulation's Effect on Novice versus Experienced Learning, *Experimental Brain Research*, 213(1): 9-14.
55. Gasparovic C, Bedrick E, Mayer AR, Yeo RA, Calhoun VD, & **Jung RE**. (2011). Test-Retest Reliability of Short-Echo-Time Spectroscopic Imaging Data from Human Brain at 3T. *Magnetic Resonance in Medicine*, 66(2):324-332.
56. <sup>4+</sup>Allen E, Erhardt E, Damaraju E, Gruner W, Segall J, Silva R, Havlicek M, Rachakonda S, Fries J, Kalyanam R, Michael A, Turner J, Eichele T, Adelsheim S, Bryan A, Bustillo J, Clark V, Feldstein S, Filbey F, Ford C, Hutchison K, **Jung RE**, Kiehl K, Kodituwakku P, Komesu Y, Mayer A, Pearlson G, Phillips J, Sadek J, Stevens M, Teuscher U, Thoma RJ, Calhoun VD. (2011). A Baseline for the Multivariate Comparison of Resting State Networks. *Frontiers in Systems Neuroscience*, 5(2):1-23.

57. Karama S, Colom R, Johnson W, Deary I, van der Maas H, Haier RJ, **Jung RE**, Lepage C, Ganjavi H, & Evans A (2011) Cortical Thickness Correlates of Cognitive Performance after Controlling for the General Factor of Intelligence. *NeuroImage*, 55(4):1443-53. [Altmetric = 14](#)
58. Ryman SG, Gasparovic C, Bedrick EJ, Flores RA, Marshall AN, **Jung RE**. (2011) Brain Biochemistry and Personality: A Magnetic Resonance Spectroscopy Study. *PLoS ONE*, 6(11):e26758. [Altmetric = 5](#)

## 2012

59. **Jung RE**, Chaves RS, Flores RA, Qualls C, Sibbitt WJ, Roldan CA (2012). White Matter Correlates of Neuropsychological Dysfunction in Systemic Lupus Erythematosus. *PLoS ONE*, 7(1):e28373. [Altmetric = 2](#)
60. Lou L, Xu L, **Jung RE**, Pearlson G, Adali T, Calhoun V. (2012). Constrained Source Based Morphometry Identifies Structural Networks Associated with Default Mode Network, *Brain Connectivity*, 2(1):33-43.
61. Segall J, Allen EA, **Jung RE**, Erhardt E, Arja S, Kiehl KA, and Calhoun VD, (2012). Correspondence between Structure and Function in the Human Brain at Rest, *Frontiers in Neuroinformatics*, 6(10):1-17.
62. Mayer AR, Teshiba TM, Franco AR, Shane M, Mannell MV, Stephen JM & **Jung RE** (2012). Modeling conflict and error in the medial frontal cortex, *Human Brain Mapping*, 33(12):2843-55.

## 2013

63. **Jung RE** & Haier RJ (2013). "Creativity and Intelligence: Brain networks that link and differentiate the expression of genius." In O. Vartanian, A.S. Bristol, & J.C. Kaufman (Eds). *The Neuroscience of Creativity*. Cambridge University Press.
64. **Jung RE** & Ryman SG (2013) "Imaging Creativity." In K.H. Kim, J.C. Kaufman, & J. Baer (Eds.), *Creatively Gifted Students Are Not Like Other Gifted Students: Research, Theory, and Practice*. Cambridge University Press.
65. Kulkarni V, Pudipeddi JS, Akoglu L, Vogelstein JT, Vogelstein J, Ryman S, **Jung RE**. (2013) Sex differences in the human connectome. In Imamura et al., (Eds.): *Brain and Health Informatics 2013, Lecture Notes in Artificial Intelligence*, 8211:82-91
66. <sup>1+</sup>**Jung RE**, Mead BS, Carrasco J, Flores RA. (2013). The structure of creative cognition in the human brain. *Frontiers in Human Neuroscience*, 7: doi: 10.3389/fnhum.2013.00330. [Altmetric = 130](#)
67. Roldan C, Sibbitt Jr. WL, Qualls C, **Jung RE**, Greene ER, Gasparovic CM, Hayek R, Charlton GA, & Crookston K. (2013). Libman-Sacks Endocarditis and Embolic Cerebrovascular Disease. *Cardiovascular Imaging*, 6(9): 973-983.
68. Vakhtin AA, Calhoun VC, **Jung RE**, Ford CC. (2013). Changes in Intrinsic Functional Brain Networks Following Blast-Induced Mild Traumatic Brain Injury. *Brain Injury*, 27(11): 1304-10.
69. Stephen JM, Coffman BA, **Jung RE**, Bustillo JR, Aine CJ, Calhoun VD (2013). Using joint ICA to link MEG and DTI data applied to schizophrenia. *NeuroImage*, 83, 418-30.
70. Roncal WG, Koterba ZH, Mhembere D, Kleissas DM, Vogelstein JT, Burns R, Bowles AR, Donavos DK, Ryman S, **Jung RE**, Wu L, Calhoun V, Vogelstein RJ. (2013). MIGRAINE: MRI graph reliability analysis and inference for connectomics. *GlobalSIP 2013 – Proceedings*, 313-316 DOI: 10.1109/GlobalSIP.2013.6736878
71. Mhembere D, Roncal W, Sussman D, Priebe CE, **Jung RE**, Ryman SG, Vogelstein RJ, Vogelstein JT, Burns R, (2013) Computing scalable multivariate local invariants of large (brain-) graphs," *Global Conference on Signal and Information Processing (GlobalSIP), 2013 IEEE*, 12(3), 297-300. doi: 10.1109/GlobalSIP.2013.6736874

## 2014

72. Bertelli M, Salvador-Carulla L, Scuticchio D, Varruciu N, Martinez-Leal R, Cooper SA, Simeonsson RJ, Deb S, Weber G, **Jung R**, et al., (2014). Moving Beyond Intelligence in the

Revision of IDC-10: Specific Cognitive Functions in Intellectual Development Disorders. *World Psychiatry*, 13(1): 93-4.

73. **Jung RE**, Ryman SG, Vakhtin AA, Carrasco J, Wertz C, Flores RA. (2014). Subcortical Correlates of Individual Differences in Aptitude. *PLoS ONE*, DOI: 10.1371/journal.pone.0089425 [Altmetric = 12](#)
74. **Jung RE**, (2014). Evolution, Creativity, Intelligence, and Madness: “Here be Dragons” *Frontiers in Psychology*, 5:784, DOI: 10.3389/fpsyg.2014.00784 [Altmetric = 61](#)
75. Haier RJ, Karama S, Colom R, **Jung RE**, Johnson W. (2014). A Comment on “Fractionating Intelligence” and the peer review process, *Intelligence*, 46:323-332. [Altmetric = 54](#)
76. Haier RJ, Karama S, Colom R, **Jung RE**, Johnson W. (2014). Yes, but flaws remain. *Intelligence*, 46:341-344.
77. Ryman SG, van den Heuvel M, Yeo RA, Caprihan A, Carrasco J, Vakhtin A, Flores RA, Wertz C, **Jung RE**. (2014). Sex differences in the relationship between white matter connectivity and creativity, *NeuroImage*, 101:380-389. [Altmetric = 16](#)
78. Weiland, BJ, Sabbineni A, Calhoun VD, Welsh RC, Bryan AD, **Jung RE**, Mayer AR, Hutchison KE. (2014). Reduced Left Executive Control Network Functional Connectivity Is Associated with Alcohol Use Disorders. *Alcoholism: Clinical and Experimental Research*, 38(9):2445-2453. doi: 10.1111/acer.12505
79. Vakhtin A, Ryman SG, Flores RA, **Jung RE**. (2014). Functional brain networks contributing to the Parieto-Frontal Integration Theory of intelligence, *NeuroImage*, 103:349-354. [Altmetric = 11](#)

## 2015

80. Grazioplene R, Ryman SG, Grey J, Aldo R, **Jung RE**, & DeYoung C. (2015). Subcortical intelligence: Caudate volume predicts IQ in healthy adults. *Human Brain Mapping*, 36(4): 1407-16. [Altmetric = 24](#)
81. Gupta CN, Calhoun VD, Rachkonda S, Chen J, Liu J, Segall J, Franke B, Zwiers MP, Arias-Vasquez A, Buitelaar J, Fischer SE, Fernandez G, van Erp TGM, Potkin S, Ford J, Mathalon D, McEwen S, Lee HJ, Mueller MA, Greve DN, Andreassen O, Agartz I, Gollub RL, Sponheim SR, Ehrlich S, Wang L, Pearlson G, Glahn DC, Sprooten E, Mayer AR, Stephen J, **Jung RE**, Canive J, Bustillo J, Turner JA. (2015). Patterns of gray matter abnormalities in schizophrenia based on an international mega-analysis, *Schizophrenia Bulletin*, 41(5):1133-42.
82. Euler MJ, Weisend MP, **Jung RE**, Thoma RJ, & Yeo RA. (2015). Reliable Activation to Novel Stimuli Predicts Higher Fluid Intelligence. *NeuroImage*, 114(1):311-319. [Altmetric = 5](#)
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90. **Jung RE**, Flores RA, Hunter D. (2016). A new measure of imagination ability: Anatomical brain imaging correlates. *Frontiers in Psychology*, doi: 10.3389/fpsyg.2016.00496. [Altmetric = 7](#)
91. Haier RJ & **Jung RE**. (2016). The Psychometric Brain. *Psychological Inquiry*, 27(3):218-19.
92. Yeo RA, Ryman SG, van den Heuvel MP, de Reus MA, Pommy J, Seaman B, & **Jung RE**. (2016). Cognitive specialization for verbal versus spatial ability: Neural and behavioral correlates. *Personality and Individual Differences*, 102:60-67.
93. Ryman SG, Yeo RA, Witkiewitz K, Vakhtin AA, van den Heuvel MP, de Reus M, Flores RA, Wertz CJ, Meadows CA, **Jung RE**. (2016). Fronto-parietal gray matter and white matter efficiency differentially predict intelligence in males and females. *Human Brain Mapping*, 37(11): 4006-16. [Altmetric = 4](#)

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94. **Jung RE**, & Meadows C. (2017). Sweet dreams are made of this: The role of openness in creativity and brain networks. *Frontiers in Personality and Creativity*, Gregory Feist & Roni Reiter-Palmon, & James Kaufman Eds.
95. Beatty RE, & **Jung RE**, (In Press). Interacting brain networks underlying creative cognition and artistic performance, *Oxford Handbook on Spontaneous Thought*, Kieran Fox & Kalina Christoff Eds.
96. Wang L, Durante D, **Jung RE**, Dunson DB. (In Press). Bayesian Network-Response Regression. *Bioinformatics*,
97. **Jung RE** & Vartanian O. Editors (In Press). *The Cambridge Handbook of the Neuroscience of Creativity*. New York: Cambridge University Press.
98. Bustillo JR, Patel V, Jones T, **Jung RE**, Payanait N, Qualls C, Canive J, Liu J, Bizozerro N, Calhoun V, Turner J, Gasparovic C. (In Press). Risk-conferring glutamatergic genes and brain glutamate in schizophrenia.

## Under Review

99. Aine CJ, Bockholt HJ, Bustillo JR, Canive JM, Caprihan A, Gasparovic C, Hanlon FM, **Jung RE**, Lauriello J, Mayer AR, Perrone-Bizzozero N, Posse S, Stephen JM, Turner JA, Clark VP, Calhoun VD. (In Review). Multimodal imaging of schizophrenia with MEG and MRI: Data release from a successful NIH COBRE.
100. Vartanian O, Wertz CJ, Flores RA, Beatty EL, Smith I, Blackler K, Lam Q, and **Jung RE**. (In Review). Structural and functional correlates of Openness and Intellect: Implications for the contribution of personality and creativity.
101. Genc E, Fraenz C, Schluter C, Friedrich P, Hossiep, Rudiger, Ling JM, Gunturkun O, & **Jung RE**. Diffusion markers of dendritic density and arborization in gray matter predict differences in intelligence.
102. Chen J, Calhoun VD, Lin D, Perrone-Bizzozero NI, Bustillo JR, Pearlson GD, Potkin SG, van Erp TGM, Macciardi F, Ehrlich S, Ho BC, Sponheim SR, Wang L, Stephen JM, Mayer AR, Hanlon FM, **Jung RE**, Clementz BA, Keshavan MS, Gershon ES, Sweeney JA, Tamminga CA, Andreassen OA, Agartz I, Westlye LT, Sui J, Du Y, Turner JA, Liu J. Shared genetic risk of schizophrenia and gray matter reduction in 6p22.1.
103. Roldan P, **Jung RE**, Sibbitt W, Qualls CR, Roldan RA. Correlation of neurocognitive function and brain lesion load on MRI in patients with Systemic Lupus Erythematosus: A cross-sectional controlled study.

## Select Invited External Lectures

### 2009

1. Jung RE, “[The Creative Brain: From Neuromythology to Neuroscience](#)” Information Science and Technology Center, Los Alamos National Laboratory, February 25, 2009.

2. Jung RE, *Keynote Address*: “[Neuroscience of Creativity and Intelligence: Implications for Education.](#)” Learning and the Brain Society Conference on the Creative Brain: Using Brain Research on Creativity and the Arts to Improve Learning, Washington, DC, 6-9 May, 2009.
3. Jung RE, “[Creativity and the brain.](#)” New Voices in Creativity and Intelligence Symposium, University of Kansas, Lawrence, KS, 1-3 November, 2009.

#### 2010

4. Jung RE. The Neuroscience of Creativity. Presented at The Brain: Learning and Applications Conference, Frankfurt, Germany 8 – 9 April, 2010.
5. Jung RE, “[Creativity and the Brain.](#)” TEDxABQ, September 18, Albuquerque, NM.

#### 2011

6. Jung RE, (2011). Biochemistry of Intelligence and Creativity. International Society for Neurochemistry Special Symposium on Neurochemistry and Australian Neuroscience Society January 31 - February 3, 2011 - Auckland, New Zealand.
7. Jung RE, (2011). *Keynote Address*: Creativity and the Brain. National Art Education Association Convention. 17 – 20 March, Seattle, Washington.
8. Jung RE, (2011). Creativity Neuroscience. Keynote Address. NEURIZONS – From Molecules to Mind: Making Sense of the Brain, 4<sup>th</sup> Biennial Neuroscience Conference, Max Planck Research School for Neuroscience May 25 - May 28, 2011 - Gottingen, Germany
9. Jung RE, “[Beautiful Minds: The Enigma of Genius.](#)” World Science Festival, Skirball Center, June 4, New York City, New York.
10. Jung RE, *Keynote Address*: “[Teaching through the prism: The power of integrating arts into K-12 education.](#)” The Phillips Collection, June 24, Washington, D.C.

#### 2012

11. Jung RE, *Keynote Address*: “[The Eureka Moment.](#)” C2-MTL. May 22-24<sup>th</sup>, Montreal, Canada.

#### 2013

12. Jung RE, *Keynote Address*: “The importance of personality variables in the manifestation of creativity: neuroimaging findings”, 1<sup>st</sup> World Conference on Personality. March 19-23, Stellenbosch, South Africa.
13. Jung RE, “[Networks of Creativity.](#)” State of Creativity Forum 2013 – Building Bridges, November 18<sup>th</sup> – 19<sup>th</sup>, Oklahoma City, Oklahoma.
14. Jung RE, *Keynote Address*: “[Creativity and intelligence are different but important for success.](#)” 1<sup>st</sup> Festival of Imagination, Creativity, and Innovation, November 21<sup>st</sup> – 22<sup>nd</sup>, Barrancabermeja, Colombia.

#### 2014

15. Jung RE, *Keynote Address*: “[The Structure of Creative Cognition in the Human Brain](#)”, Key Research: Universidad Sergio Arboleda, January 30<sup>th</sup> – 31<sup>st</sup>, Bogota, Colombia.
16. Jung RE, “[Network\(s\) of Creativity](#)”, The Default Mode Network in Aesthetics and Creativity, The Italian Academy for Advanced Studies in America, Columbia University, New York, New York, February 7, 2014.
17. Jung RE, “[Mapping Creativity in the Brain](#)” Georgetown University, Washington, D.C., February 28, 2014.
18. Jung RE, “[The Genius Debate: Identifying the Origins of Genius.](#)” 92Y, New York, New York, March 6, 2014.
19. Jung RE, *Focus Talk*: “[The Neuroscience of Creativity.](#)” 6<sup>th</sup> Annual California Cognitive Science Conference, Berkeley, CA. May 3, 2014.
20. Jung RE, Kaufman SB, Beeman M. “[What is Creative Genius?](#)” Aspen Ideas Festival, Aspen, CO. June 28, 2014.
21. Jung RE, *President’s Symposium*: “[The Reason Behind Creative Cognition.](#)” International Society for Intelligence Research Annual Conference, Graz, Austria. December 12-14, 2014.

#### 2015

22. Jung RE, "[White matter integrity, creativity, and psychopathology: disentangling constructs with diffusion tensor imaging.](#)" 105<sup>th</sup> Annual Meeting of the American Psychopathological Association, New York, New York. March 5-7, 2015.
23. Hsu S, Jung RE, McMahon D, Simonton DK, "[Understanding Genius: An Unhurried Search for Wisdom.](#)" The Helix Center, New York, New York, October 3, 2015.

## 2016

24. Jung RE, "[Interacting Brain Networks Underlying Creative Cognition.](#)" CogNovo Workshop: The Neural Basis for Creativity, Plymouth, United Kingdom, April, 29, 2016.

## News Items in Other Journals

1. Nature: Linda Geddes "[Human Brain Mapped in Unprecedented Detail](#)", 07/20/16.

## Select National/International Print Media

1. New York Times: "[Charting Creativity: Signposts of a Hazy Territory](#)" Patricia Cohen, 04/07/10.
2. Newsweek: "[The Creativity Crisis](#)", Po Bronson & Ashley Merryman, 07/10/10.
3. The Washington Post: "[Creativity can last well into old age, as long as creators stay open to new ideas](#)", Tara Bahrapour, 11/21/13
4. Chicago Tribune: "[7 Big Ideas from the Aspen Ideas Festival](#)" Lara Weber, 07/03/14
5. The Atlantic: "[Scientists are more creative than you might imagine](#)" Alexandra Ossola, 11/12/14
6. New York Times: "[Therapy borne on electrical currents](#)" Kira Peikoff, 05/04/2015
7. Fortune: "[Can electric 'brain training' devices make you smarter?](#)" Jennifer Alsever, 11/17/15
8. Fast Company: "[How you record ideas may impact creativity.](#)" Anna Kenoff, 11/30/15
9. National Geographic: "[What makes a genius?](#)" Claudia Kalb, May 2017.

## National/International Television

1. BBC 4: Armand Leroi "What Makes us Human" (UK); 08/12/06
2. CNN: "Genius – Quest for Extreme Brain Power", (USA); 09/17/06, 10 p.m. ET.
3. BBC 2: "Horizon – Battle of the Brains" (UK); 04/17/07. Discovery Channel (USA).
4. NOVA: "How Smart Can we Get?" (USA); 10/24/12. PBS.
5. BBC2: "Horizon – The Creative Brain: How Insight Works" (UK); 03/14/13

## Podcasts/Webcasts

1. On Being, Krista Tippett, American Public Media, "[Creativity and the Everyday Brain](#)" 03/22/12.
2. To The Best of Our Knowledge, "[The Neuroscience of Creativity](#)" 11/25/12.
3. American Psychological Association – Speaking of Psychology: "[The Neuroscience of Creativity](#)" 05/04/14.
4. The Guardian, "[What is the nature of creativity?](#)" 07/31/15