

# Katherine H. Karlsgodt

## Curriculum Vitae

**Date Prepared:** February 5, 2020

**Birthplace:** San Diego, California USA

**Institution:** University of California, Los Angeles  
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### Positions:

2019- present Associate Professor (with tenure) Department of Psychology  
University of California, Los Angeles

2017-present Brain Research Institute (BRI), University of California, Los Angeles

2016-2019 Assistant Professor, Department of Psychiatry and Biobehavioral Sciences  
University of California, Los Angeles

2016- 2019 Assistant Professor, Department of Psychology  
University of California, Los Angeles

2013-2016 Assistant Professor, Department of Psychiatry  
Zucker School of Medicine at Hofstra/Northwell

2012- 2016 Assistant Investigator, Division of Psychiatry Research  
Feinstein Institute for Medical Research  
Zucker Hillside Hospital, Northwell Health System

2009-2012 Assistant Research Scientist  
Center for Cognitive Neuroscience  
Department of Psychiatry and Biobehavioral Sciences, UCLA

1999-2001 Research Assistant  
Massachusetts General Hospital, Department of Psychiatry

### Education and Training:

2007-2009 Postdoctoral Fellow, Neurogenetics Affinity Group, Semel Institute, UCLA

2001-2007 Ph.D., Cognitive Neuroscience Area, Department of Psychology, UCLA

2001-2003 M.A., Cognitive Neuroscience Area, Department of Psychology, UCLA

1995-1999 B.A., Psychology, Trinity College, Hartford, CT

### Awards and Honors:

2019 American College of Neuropsychopharmacology (ACNP) Full Membership

2013 American College of Neuropsychopharmacology (ACNP) Associate Membership

2013 NIMH BRAINS Award and R01, Biobehavioral Research Awards for Innovative  
New Scientists

2013 NIH Early Career Reviewer Program

2012 Feinstein Institute for Medical Research Competitive Faculty Award

2011 International Congress on Schizophrenia Research, Young Investigator Award

2010 American College of Neuropsychopharmacology Travel Award

2010 Friends of Semel Institute Travel Award

2008 New York Academy of Sciences James McKeen Cattell Dissertation Award

2007 Department of Psychology Gengerelli Distinguished Dissertation Award

2006 American Psychological Foundation (APF/COGDOP) Scholarship

2005 Will Rogers Memorial Fellowship

2004 UCLA Graduate Division Travel Award

2003 UCLA Graduate Division Travel Award

2001 Travel Award, Women Gender and Drug Abuse, CPDD, NIDA

1999 Partners in Excellence Award, Mass. General Hospital, Partners Healthcare System  
1999 Psychology Award, Trinity College Psychology Department  
1998-99 Deans List, Trinity College  
1995-1997 Guided Studies, Humanities Honors Program, Trinity College

### Previous Funding:

UCLA Academic Senate Faculty Research Grant 7/1/2017-12/31/2018  
UCLA Faculty Career Development Award 7/1/2018-6/30/2019  
NIMH 1R01MH101506-S1 Supplement 8/1/15- 5/31/16  
Feinstein Institute for Medical Research Competitive Faculty Award 12/30/12-12/29/13  
Consortium for Neuropsychiatric Phenomics (CNP) 7/1/09-6/30/11  
Pilot Project, "Translational Assessment of Complex Phenotypes: Bridging the Gap  
Between Behavior and Brain Function"  
NIH Loan Repayment Program for Clinical Researchers 7/1/08-6/30/12  
Postdoctoral Traineeship in Neurobehavioral Genetics T32, UCLA 7/1/07-6/30/08  
NIMH, National Research Service Award 7/1/05-6/30/07  
"Properties of Verbal Working Memory in Schizophrenia" 1F31MH068111-01A2  
Traineeship, T32 Training Program in Neuroimaging, UCLA 7/1/03-6/30/05  
Traineeship, T32 Behavioral Neuroscience Training Grant, UCLA 7/1/01-6/30/02

### Current Funding:

NIMH R21  
Microstructural neuroimaging of synaptic pruning and myelination in adolescent psychosis  
PI: Katherine Karlsgodt  
  
NIMH, R01MH101506 8/16/13-5/31/20  
Multimodal Imaging of Executive and Reward Networks across the Psychosis Spectrum  
PI: Katherine Karlsgodt  
  
NIMH R01MH110544  
Enhancing Cognitive Training Through Exercise Following a First Schizophrenia Episode 9/2/16-6/30/21  
PI: Keith Nuechterlein, Cindy Yee Bradbury, Greg Miller  
Role: Co-Investigator

### Teaching Experience:

UCLA Department of Psychology  
2016, 2018 Fall, 2018 Winter: Abnormal Psychology: Biological Bases, Psych 127B  
2017, 2018, 2019: Clinical Psychology Lab, Psych 126  
2017 Special Problems in Psychology: Biological Aspects of Behavior Psych 298  
  
Northwell Health System  
2013-16 R-2 Zucker Hillside Hospital Resident Research Mentorship Program  
2016-17 Hofstra Northwell School of Medicine Lecturer  
  
University of Southern California  
2012 Spring Semester Course Instructor, Psych 326: Behavioral Neuroscience

### Service Activities:

2018-present American College of Neuropsychopharmacology (ACNP) Women's Task Force  
2017-present UCLA Psychology Department Strategic Planning Committee (SPC)  
2017-2018 UCLA Psychology Merit Review Committee (Alternate)  
2016-present UCLA Clinical Area Admissions Committee  
2016-present UCLA Clinical Psychology Academic Committee  
2016-present UCLA Clinical Area Committee  
2016-2017 Goldstein Memorial Lecture Committee  
2015-2017 American College of Neuropsychopharmacology (ACNP) Program Committee

2015-2016 Hofstra-Northwell School of Med., Psychiatry & Neurology Curriculum Committee  
2014-2016 Faculty Council, Psychiatry Representative, Hofstra Northwell School of Medicine  
2012-2016 Protocol Review Committee, Zucker Hillside Hospital Psychiatry Res. Division  
2009-10 Co-organizer, Behavioral Neuroscience Weekly Seminar  
2005 Psychology Undergraduate Research Conference session moderator  
2004 Graduate Research Conference Assistant: Psychology Undergrad Research Conference (PURC)  
2003-7 Content Advisor, UCLA Undergraduate Psychology Journal

### **Professional Development Activities:**

2018 Collegiate Recovery Program, Recovery Ally Training  
2016 Faculty Research Mentoring Practices Workshop  
2016 LGBTQ Ally Training Certification  
2013 The Connectome- Educational Course at Human Brain Mapping  
2008 Cold Spring Harbor, Schiz. and Related Disorders Summer Lecture Course  
2005 RIKEN Brain Science Institute, Summer Lecture Course, Japan  
2004 IPAM Graduate Summer School: Mathematics in Brain Imaging, UCLA  
2003 FMRI Software Library (FSL) Course, Los Angeles, CA

### **Community Service Activities:**

2017-present Westwood Charter Science Slam Volunteer "Journey Into the Brain" (annual)  
2014-2016 Judge, Long Island Science and Engineering Fair (LISEF)  
2010-2012 Site Manager, Iridescent Learning, Family Science Night

### **Professional Review Activities:**

Ad-Hoc Reviewer: Acta Psychiatrica Scandinavica, American Journal of Psychiatry, Australian and New Zealand Journal of Psychiatry, Behavioral Brain Research, Biological Psychiatry, Biological Psychiatry: CCNI, BMC Psychiatry, Brain Imaging and Behavior, Brain Research Bulletin, Brain Structure and Function, British Journal of Psychiatry, Developmental Science, Frontiers in Neuroscience, Frontiers in Human Neuroscience, Human Brain Mapping, JAMA Psychiatry, Journal of Cognitive Neuroscience, Journal of American Academy of Child and Adolescent Psychiatry, Journal of Psychiatry and Neuroscience, Molecular Psychiatry, Neuroimage, Neurobiology of Aging, Neurobiology of Disease, Neuroscience and Biobehavioral Reviews, Neurotoxicity Research, Molecular Psychiatry; Progress in Neuropsychopharmacology and Biological Psychiatry, Psychiatry Research, Psychiatry Research: Neuroimaging, Schizophrenia Bulletin, Schizophrenia Research

Federal Funding Agencies: National Science Foundation, NIMH Special Interest Panel, NIMH APDA Study section (ad hoc)

Other Funding Agencies: Swiss National Science Foundation, The Wellcome Trust (U.K), Leading Fellows Panel (LFP; Netherlands)

### **Publications:**

\* denotes corresponding authorship

#### In Press or Epub

1. Mennigen E, Jolles DD, Hegarty CE, Gupta M, Jalbrzikowski M, Olde Loohuis LM, Ophoff RA, **Karlsgodt** KH, Bearden CE: State-dependent functional dysconnectivity in youth with psychosis spectrum symptoms, *Schizophrenia Bulletin*, in press
2. Jalbrzikowski M, Freedman D, Hegarty CE, Mennigen E, **Karlsgodt** KH, Olde Loohuis LM, Ophoff RA, Gur RE, Bearden CE.: Structural brain alterations in youth with psychosis and bipolar spectrum symptoms, *J Am Acad Child Adolesc Psychiatry*, in press

#### Peer-Reviewed Journal Articles (reverse chronological order)

2019

1. **Karlsgodt, KH:** Using advanced diffusion metrics to probe white matter microstructure in individuals at clinical high risk for psychosis, *American Journal of Psychiatry*, 176(10)777-779, 2019

2. Barber AD, Sarpal DK, John M, Fales CL, Malhotra AK, Mostofsky SH, **Karlsgodt KH**, Lencz T: Age-Normative Pathways of Striatal Connectivity Relate to Clinical Symptoms in the General Population, *Biological Psychiatry*, 85(11):966-975, 2019
3. Smelror RE, Jørgensen KN, Lonning V, Kelleher I, DeRosse P, **Karlsgodt KH**, Andreassen OA, Lundberg M, Edbom T, Cleland N, Myhre AM, Rund BR, Ueland T Agartz I: Healthy adolescent performance with standardized scoring tables for the MATRICS Consensus Cognitive Battery: A Multisite Study, *Schizophrenia Bulletin*, 45(4):773-783, 2019
4. Hegarty CE, Jolles DD, Mennigen E, Jalbrzikowski M, Bearden CE, **Karlsgodt KH**.: Disruptions in white matter maturation and mediation of cognitive development in youths on the psychosis spectrum, *Biological Psychiatry:CCNI*, 4(5):423-433, 2019

2018

5. Ikuta T, Del Arco A, **Karlsgodt KH**: White matter integrity in the fronto-striatal accumbocortical tract predicts impulsivity, *Brain Imaging and Behavior*, 12(5):1524-1528
6. Barber AD, Lindquist MA, DeRosse P, **Karlsgodt KH**: Dynamic neural states reflecting sub-clinical psychotic experiences, *Biological Psychiatry: CCNI*, 3(5): 443-453, 2018\*
7. Uddin LQ, **Karlsgodt KH**: Future directions for examination of brain networks in neurodevelopmental disorders, *Journal of Clinical Child and Adolescent Psychology*, 10:1-15, 2018 (invited review)
8. Lyall AE, Pasternak O, Robinson DGT, Newell D, Trampush JW, Gallego JA, Fava M, Malhotra AK, **Karlsgodt KH**, Kubicki M, Szeszko PR: Greater extracellular free-water in first-episode psychosis predicts better neurocognitive functioning. *Molecular Psychiatry*, 23(3):701-707, 2018
9. **Karlsgodt KH**, Bato AA, Ikuta T, Peters BD, DeRosse P, Szeszko PR, Malhotra AK: Functional activation during a cognitive control task in youth specific to externalizing or internalizing behavior, *Biological Psychiatry:CCNI*, 3(2):133-140\*, 2018
10. Blair MA, Moyett A, Bato AA, DeRosse P, **Karlsgodt KH**: The role of executive function in adaptive risk taking on the Balloon Analogue Risk Task, *Developmental Neuropsychology*, 43(7):566-580, 2018
11. Prendergast DM, **Karlsgodt KH**, Fales CL, Ardekani BA, Szeszko PR: Corpus callosum shape and morphology in youth across the psychosis spectrum, *Schizophrenia Research*, 199:266-273, 2018
12. Blair MA, Nitzburg G, DeRosse P, **Karlsgodt KH**: Relationship between executive function, attachment style, and psychotic like experiences in typically developing youth, *Schizophrenia Research*, 197:428-433, 2018

2017

13. Sarpal DK, Robinson DG, Fales C, Lencz T, Argyelan M, **Karlsgodt KH**, Gallego JA, John M, Kane JM, Szeszko PR, Malhotra AK: Relationship between duration of untreated psychosis and intrinsic cortico-striatal connectivity in patients with early phase schizophrenia. *Neuropsychopharmacology*, 42(11):2214-2221, 2017
14. Ibrahim AFA, Montojo C, Haut K, **Karlsgodt KH**, Hansen L, Congdon E, Rosser T, Bilder RM, Silva AJ, Bearden CE: Spatial working memory in Neurofibromatosis-1: Altered neural activity and functional connectivity, *Neuroimage: Clinical*, 15: 801-811, 2017
15. Eckfield AS, **Karlsgodt KH**, Haut K, Bachman P, Jalbrzikowski M, Zinberg J, van Erp TGM, Cannon TD, Bearden CE: Disrupted working memory circuitry in early onset psychosis, *Frontiers in Human Neuroscience* 11:394, 2017,
16. Schreiner M, Forsyth JK, **Karlsgodt KH**, Anderson AE, Hirsh N, Kushan L, Uddin LQ, Mattiaccio L, Coman IL, Kates WR, Bearden CE. Intrinsic Connectivity Network-Based Classification and Detection of Psychotic Symptoms in Youth With 22q11.2 Deletions. *Cereb Cortex*. 27(6):3294-3306, 2017
17. DeRosse P, Ikuta T, **Karlsgodt KH**, Peters BD, Gopin CB, Szeszko PR, Malhotra AK. White Matter Abnormalities Associated With Subsyndromal Psychotic-Like Symptoms Predict Later Social Competence in Children and Adolescents. *Schizophr Bull*. 43(1):152-159, 2017

2016

18. Chang EH, Argyelan M, Aggarwal M, Chandon TS, **Karls godt KH**, Mori S, Malhotra AK. Diffusion tensor imaging measures of white matter compared to myelin basic protein immunofluorescence in tissue cleared intact brains. *Data Brief* 10:438-443, 2016
19. Chang EH, Argyelan M, Aggarwal M, Chandon TS, **Karls godt KH**, Mori S, Malhotra AK. The role of myelination in measures of white matter integrity: Combination of diffusion tensor imaging and two-photon microscopy of CLARITY intact brains. *Neuroimage*. 147:253-261, 2016.
20. Poldrack RA, Congdon E, Triplett W, Gorgolewski KJ, **Karls godt KH**, Mumford JA, Sabb FW, Freimer NB, London ED, Cannon TD, Bilder RM. A phenome-wide examination of neural and cognitive function. *Sci Data*. 3:160110, 2016
21. **Karls godt KH**: Diffusion Tensor Imaging in Schizophrenia: Progress and Future Directions, *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 1(3):209-217, 2016 (invited review)\*
22. Schwehm A, Robinson DG, Gallego JA, **Karls godt KH**, Ikuta T, Peters BD, Malhotra AK, Szeszko PR: Age and sex effects on white matter tracts in psychosis from adolescence through middle adulthood, *Neuropsychopharmacology* 41(10): 2473-80, 2016
23. Nitzburg GC, Gopin CB, Peters BD, **Karls godt KH**, Malhotra AK, DeRosse P: The relationship between temperament and character and psychotic-like experiences in healthy children and adolescents, *European Psychiatry*, 31:60-5, 2016
24. Sarpal DK, Argyelan M, Robinson D, Szeszko PR, **Karls godt KH**, John M, Weissman N, Gallego JA, Kane JM, Lencz T, Malhotra AK: Baseline Striatal Functional Connectivity as a Predictor of Response to Antipsychotic Drug Treatment, *American Journal of Psychiatry*, 173(1): 69-77, 2016

2015

25. **Karls godt KH**, John M, Ikuta T, Rigoard P, Peters BD, DeRosse P, Malhotra AK, Szeszko PR: The accumbens-frontal tract: Diffusion tensor imaging characterization and developmental changes from childhood to adulthood, *Human Brain Mapping*, 36(12): 4954-63, 2015\*
26. Ikuta T, DeRosse P, Argyelan M, **Karls godt KH**, Kingsley PB, Szeszko PR, Malhotra AK: Subcortical Modulation in Auditory Processing and Auditory Hallucinations, *Behavioral Brain Research*, 295: 78-81, 2015
27. **Karls godt KH**, Bato AA, Blair AA, DeRosse P, Szeszko PR, Malhotra AK: White matter microstructure in the executive network associated with aggression in healthy adolescents and young adults, *Social Cognitive and Affective Neuroscience*, 10(9):1251-6, 2015\*
28. Haut KM, **Karls godt KH**, Bilder RM, Congdon E, Freimer N, London ED, Sabb FW, Ventura J, Cannon TD: Memory systems in schizophrenia: Modularity is preserved but deficits are generalized, *Schizophrenia Research*, 168(1-2):223-30, 2015
29. DeRosse P, **Karls godt KH**: Examining the Psychosis Continuum, *Curr Behav Neuroscience Reports*, 2(2):80-89, 2015 (invited review)
30. Spiegel S, Chiu A, James AS, Jentsch JD, **Karls godt KH**: Similar recognition memory deficits in mice caused by null mutation of genes coding for BLOC-1 complex subunits pallidin and dysbindin, *Genes Brains and Behavior*, 14 (8): 618-24, 2015\*
31. Sarpal D, Robinson D, Lencz T, Argyelan M, Ikuta T, **Karls godt KH**, Kane JM, Szeszko PR, Malhotra AK: Antipsychotic treatment and functional connectivity of the striatum: A prospective, controlled study in first-episode schizophrenia, *JAMA Psychiatry*, 72(1):5-13, 2015
32. Montojo CA, Jarbrzikowski M, Congdon E, Domicoli S, Chow C, Dawson C, **Karls godt KH**, Bilder RM, Bearden CE: Neural substrates of inhibitory control deficits in 22q11.2 deletion syndrome, *Cereb Cortex*, 25(4):1069-79, 2015
33. Peters BD, **Karls godt KH**: White matter development in the early stages of psychosis, *Schizophrenia Research*, 161(1):61-9, 2015 (invited review)\*

2014

34. DeRosse P, Ikuta T, Peters BD, **Karls godt KH**, Szeszko PR, Malhotra AK: Adding insult to injury: Childhood and adolescent risk factors for psychosis predict lower fractional anisotropy in the superior longitudinal fasciculus in healthy adults, *Psychiatry Research*, 224(3):296-302, 2014
35. **Karls godt KH**, van Erp TGM, Bearden CE, Cannon TD: Altered age-related trajectories in functional brain activation in healthy adolescents and those at risk for psychosis, *Psychiatry Research: Neuroimaging*,

221(1):21-9, 2014\*

36. Jalbrzikowski M, Villalon-Reina JE, **Karlsgodt KH**, Senturk D, Chow C, Thompson PM, Bearden CE: Altered white matter microstructure is associated with social cognition and psychotic symptoms in 22q11.2 microdeletion syndrome, *Frontiers in Behavioral Neuroscience*, 8, 393, 2014
37. Congdon E, Altshuler LL, Mumford JA, **Karlsgodt KH**, Sabb FW, Ventura J, McGough JJ, London ED, Cannon TD, Bilder RM, Poldrack RA: Neural activation during response inhibition in adult attention-deficit/hyperactivity disorder: Preliminary findings on the effects of medication and symptom severity, *Psychiatry Research*, 222(1-2): 17-28, 2014
38. Ikuta T, Peters BD, Guha S, John M, **Karlsgodt KH**, Lencz T, Szeszko PR, Malhotra AK: A schizophrenia risk gene, ZNF804A, is associated with brain white matter microstructure, *Schizophrenia Research*, 155(1-3):15-20, 2014
39. Peters BD, Voineskos AN, Szeszko PR, Lett TA, DeRosse P, Guha S, **Karlsgodt KH**, Ikuta T, Felsky D, John M, Kennedy JL, Lencz T, Malhotra AM: Brain white matter development is associated with a human-specific haplotype increasing the synthesis of long chain fatty acids, *Journal of Neuroscience*, 34(18):6367-76, 2014
40. White CN, Congdon E, Mumford JA, **Karlsgodt KH**, Sabb FW, Freimer NB, London ED, Cannon TD, Bilder RM, Poldrack RA: Decomposing decision components in the stop-signal task: A model-based approach to individual differences in inhibitory control, *Journal of Cognitive Neuroscience*, 26(8):1601-44, 2014
41. Montojo, CA, Ibrahim A, **Karlsgodt KH**, Chow C, Hilton AE, Jonas RK, Vesagas TK, Bearden CE: Disrupted working memory circuitry and psychotic symptoms in 22q11.2 deletion syndrome, *Neuroimage: Clinical* 4:392-402, 2014
42. Helfinstein SM, Schonberg T, Congdon E, **Karlsgodt KH**, Mumford JA, Sabb FW, Cannon TD, London ED, Bilder RM, Poldrack RA: Predicting risky choices from brain activity patterns, *Proceedings of the National Academy of Sciences*:111(7):2470-5, 2014

2013

43. Congdon E, Bato AA, Schonberg T, Mumford JA, **Karlsgodt KH**, Sabb FW, London ED, Cannon TD, Bilder RM, Poldrack RA: Differences in Neural Activation as a Function of Risk-taking Task Parameters, *Frontiers in Decision Neuroscience*, 7:173. doi: 10.3389/fnins.2013.00173, 2013
44. Schreiner MJ, **Karlsgodt KH**, Uddin LQ, Chow C, Congdon E, Jalbrzikowski M, Bearden CE: Default mode network connectivity and reciprocal social behavior in 22q11.2 deletion syndrome, *Social Cognitive and Affective Neuroscience*, 9(9): 1261-7, 2013

2012

45. **Karlsgodt KH**, Rosser T, Lutkenhoff ES, Cannon TD, Silva AC, Bearden CE: Alterations in white matter microstructure in Neurofibromatosis-1, *PLoS-One*, 7(10), 2012 \*
46. Lutkenhoff E\*, **Karlsgodt KH\***, Stein J, Thompson P, Cannon TD, Jentsch JD, Structural and functional neuroimaging phenotypes in dysbindin mutant mice, *Neuroimage* 62(1):120-9, 2012\*
47. **Karlsgodt KH**, Jacobson SC, Seal M, Fusar-Poli, P: The Relationship of Developmental Changes in White Matter to the Onset of Psychosis. *Current Pharmaceutical Design*, 18(4):422-32, 2012 (invited review)\*
48. Bearden CE, **Karlsgodt KH**, Bachman P, van Erp TG, Winkler AM, Glahn DC: Genetic Architecture of Declarative Memory: Implications for Complex Illnesses. *Neuroscientist*, 18(5)516-32, 2012 (invited review)
49. Gee DG, **Karlsgodt KH**, van Erp TG, Bearden CE, Lieberman MD, Belger A, Perkins DO, Olvet DM, Cornblatt BA, Constable T, Woods SW, Addington J, Cadenhead KS, McGlashan TH, Seidman LJ, Tsuang MT, Walker EF, Cannon TD; on behalf of the NAPLS Consortium. Altered age-related trajectories of amygdala-prefrontal circuitry in adolescents at clinical high risk for psychosis: A preliminary study, *Schizophrenia Research*, 134(1):1-9, 2012

2011

50. Kochunov P, Glahn DC, Lancaster J, Winkler A, **Karlsgodt KH**, Olvera RL, Curran JE, Carless MA, Dyer TD, Almasy L, Duggirala R, Fox PT, Blangero J, Blood Pressure and Cerebral White Matter Share Common Genetic Factors in Mexican Americans, *Hypertension*, 57(2): 330-5, 2011
51. **Karlsgodt KH\***, Robleto K\*, Trantham-Davidson H\*, Jailr C, Cannon TD, Lavin A\*\*, Jentsch JD\*\*: Reduced dysbindin expression mediates NMDA receptor hypofunction and impaired working memory

performance, *Biological Psychiatry*, 69: 28-34, 2011

**52. Karlsgodt KH**, Bachman P, Winkler AM, Bearden CE, Glahn DC: Genetic influence on the working memory circuitry: Behavior, structure, function, and extension to illness. *Behavioural Brain Research*, 225(2):610-22, 2011 (invited review)\*

2010

**53. Mittal VA, Karlsgodt KH**, Zinberg J, Cannon TD, Bearden CE: Identification and treatment of a pineal region tumor in an adolescent with prodromal psychotic symptoms, *American Journal of Psychiatry*, 167(9):1033-7, 2010

**54. Karlsgodt KH**, Kochunov P, Winkler AM, Almasy L, Duggirala R, Olvera RL, Fox PT, Blangero J, Glahn DC: A multimodal assessment of the genetic control over working memory, *Journal of Neuroscience*, 30(24) 8197-202, 2010\*

**55. Shilyansky C, Karlsgodt KH**, Cummings D, Sidiropoulou K, Hardt M, James AS, Ehninger D, Bearden CE, Poirazi P, Jentsch JD, Cannon TD, Levine MS, Silva AJ: Neurofibromin regulates corticostriatal inhibitory networks during working memory performance, *Proceedings of the National Science Academy*, 107(29):13141-6, 2010

**56. Karlsgodt KH**, Sun D, Cannon TD: Structural and Functional Brain Abnormalities in Schizophrenia, *Current Directions in Psychological Science*, 19(4) 226-231, 2010 (invited review)

2009

**57. Karlsgodt KH**, Niendam TA, Bearden CE, Cannon TD: White Matter Integrity and Prediction of Social and Role Functioning in Subjects at Ultra-High Risk for Psychosis, *Biological Psychiatry*, 66(6):562-9, 2009.\*

**58. Sanz JH, Karlsgodt KH**, Bearden CE, van Erp TGM, Nandy RR, Ventura J, Nuechterlein KH, Cannon TD: Symptomatic and Functional Correlates of Regional Brain Physiology During Working Memory Processing in Patients with Recent Onset Schizophrenia, *Psychiatry Research*, 173(3):177-82, 2009

**59. Karlsgodt KH**, Sanz J, van Erp TGM, Bearden CE, Nuechterlein KH, Cannon TD: Re-Evaluating dorsolateral prefrontal cortex activation during working memory in schizophrenia, *Schiz Research*, 108(1-3):143-150, 2009\*

2008

**60. van Erp TGM**, Lesh TA, Knowlton BJ, Bearden CE, Hardt M, **Karlsgodt KH**, Shirinyan D, Rao V, Green MF, Subotnik KL, Nuechterlein K, Cannon TD: Remember and know judgments during recognition in chronic schizophrenia, *Schizophrenia Research*, 100(1-3): 181-190, 2008.

**61. Karlsgodt KH**, Sun D, Jiminez AM, Lutkenhoff ES, Willhite R, van Erp TGM, Cannon TD: Developmental disruptions in neural connectivity in the pathophysiology of schizophrenia, *Development and Psychopathology*, 20(4): 1297-327, 2008 (invited review)

**62. Karlsgodt KH**, van Erp TGM, Poldrack RA, Bearden CE, Nuechterlein KH, Cannon TD: Diffusion Tensor Imaging of the Superior Longitudinal Fasciculus and Working Memory in Patients with Recent-Onset Schizophrenia, *Biological Psychiatry*, 63(5): 512-8, 2008.

2007

**63. Yamamoto RT, Karlsgodt KH**, Rott D, Lukas SE, Elman I: Effects of perceived cocaine availability on subjective and objective responses to the drug, *Substance Abuse Treatment Prevention Policy*, 2(30), 2007

**64. Karlsgodt KH**, Glahn DC, van Erp TG, Therman S, Huttunen M, Manninen M, Kaprio J, Cohen MS, Lonnqvist J, Cannon TD.: The relationship between performance and fMRI signal during working memory in patients with schizophrenia, unaffected co-twins, and control subjects, *Schizophrenia Research*, 89(1-3): 191-7, 2007.\*

2005

**65. Cannon TD**, Glahn DC, Kim J, Van Erp TGM, **Karlsgodt KH**, Cohen MS, Nuechterlein KH, Bava S, Shirinyan D.: Dorsolateral Prefrontal Cortex Activity During Maintenance and Manipulation Of Information in Working Memory in Patients with Schizophrenia, *Archives of General Psychiatry*, 62(10): 1071-80, 2005

**66. Karlsgodt KH**, Shirinyan D, van Erp TGM, Cohen MS, Cannon TD: Hippocampal involvement in working memory encoding and retrieval, *Neuroimage* 25(4): 1224-31, 2005.\*

2004

67. Hopper JW, **Karlsgodt KH**, Adler CM, Macklin EA, Lukas SE, Elman I: Effects of acute cortisol administration on attention, recall, and recognition task performance in individuals with cocaine dependence, *Human Psychopharmacology* 19(7): 511-6, 2004.

2003

68. Elman I, Lucas SE, **Karlsgodt KH**, Gasic GP, Breiter HC: Acute cortisol administration triggers craving in individuals with cocaine dependence, *Psychopharmacology Bulletin*, 37(3): 84-9, 2003

69. **Karlsgodt KH**, Lukas SE, Elman I: Psychosocial Stress and the Duration of Cocaine Use in Non-Treatment Seeking Individuals with Cocaine Dependence, *American Journal of Drug and Alcohol Abuse*, 29(3): 539-51, 2003

2002

70. Elman I, **Karlsgodt KH**, Gastfriend DR, Chabris CF, Breiter HC: Cocaine-Primed Craving and its Relationship to Depressive Symptomatology in Individuals with Cocaine Dependence. *J Psychopharmacology* 16(2):163-167, 2002

2001

71. Elman I, Krause S, **Karlsgodt KH**, Schoenfeld DA, Gollub RL, Breiter HC, Gastfriend DR.: Clinical outcomes following cocaine infusion in non treatment-seeking individuals with cocaine dependence. *Biological Psychiatry*. 49(6):553-5, 2001

72. Elman, I., **Karlsgodt, KH**, Gastfriend, DR.: Gender differences in cocaine craving among non-treatment-seeking individuals with cocaine dependence. *Am J Drug Alcohol Abuse* 27(2):193-202, 2001

#### Book Chapters:

1. **Karlsgodt, KH**: Working Memory, in *Brain Mapping: An Encyclopedic Reference*, Ed, Arthur Toga, Ph.D. Elsevier, 2015

2. **Karlsgodt KH**, Ellman LM, Sun D, Mittal V, Cannon TD: The Neurodevelopmental Hypothesis of Schizophrenia, in *Schizophrenia: The Final Frontier- Festschrift for Robin M. Murray*, Eds A.S David , P McGuffin, S Kapur, Psychology Press, 2011

3. Bearden CE, **Karlsgodt KH**, Bilder RM: Cognitive phenotypes and endophenotypes: Concepts and Criteria, in *Neurophenotypes* Eds, Susan Santangelo and Vinoth Jagaroo, Springer, 2017

#### **Oral Presentations (selected)**

1. Diffusion Imaging: Applications to Behavior and Neuropsychiatric Illness, University of Southern California, Laboratory of Neuroimaging (LONI) 2018

2. Multimodal Evaluation of the Executive Network in Youth with Psychotic Disorders, American College of Neuropsychopharmacology (ACNP), Palm Springs 2017

3. Structural and Functional Connectivity in Adolescent Psychosis, Society for Biological Psychiatry (SOBP), San Diego 2017

4. Diffusion Weighted Imaging: Techniques and applications to patient populations, UCLA Neuroimaging Journal Club, 2017

5. Behavioral and Imaging Investigations of Executive and Reward Networks in Psychosis, West LA, VA Medical Center, 2017

6. Executive and Reward Networks Across the Psychosis Spectrum, UCLA Brain Mapping Seminar, 2017

7. Neuroimaging of Developmental Changes in Decision Making: Implications for Neuropsychiatric Disorders, Department of Psychology, University of Miami, FL, 2015

8. Neuroimaging of Adolescent Development: Implications for Psychiatric Research, Mt Sinai Hospital, New York, NY, 2014

9. Multimodal Imaging of Adolescent Development: Implications for Psychiatric Research, Institute of Living, Hartford CT, 2014

10. Schizophrenia and the Changing Brain, NAMI NorthShore, Family to Family. 2014

11. Diffusion Tensor Imaging Investigations of White Matter Development in Schizophrenia, symposium,



*Schizophrenia International Research Conference*, Florence, Italy 2010

**12.** Neuroimaging of Neurodevelopmental Phenotypes in Schizophrenia, panel presentation, *Winter Conference on Brain Research*, Colorado 2009

**13.** Diffusion Tensor Imaging of Fronto-parietal Connections in Patients at Ultra-high Risk for Schizophrenia, *International Congress on Schizophrenia Research*, Colorado, 2007

**14.** The Relationship Between Behavior and fMRI Signal During a Working Memory Task in Patients with Schizophrenia, Unaffected Co-Twins, and Control Subjects, *SFN*, Washington, D.C., November 2005

**15.** Diffusion Tensor Imaging of Frontal Lobe White Matter in Patients with Schizophrenia, their Healthy Twins, and Control Subjects, *International Congress on Schiz. Research*, 2005