

Curriculum Vitae  
**ASSAWIN GONGVATANA, PH.D.**

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EDUCATION

Undergraduate     B.Eng. Industrial Engineering, 1998  
                          Thammasat University, Bangkok, Thailand

Graduate            M.A., Psychology, 2000  
                          New York University  
                          Ph.D., Clinical Neuropsychology, 2008  
                          Joint Doctoral Program in Clinical Psychology  
                          San Diego State University / University of California, San Diego

Internship          Clinical Neuropsychology, 2008  
                          Center for Rehabilitation Medicine, Emory University School of Medicine

POSTGRADUATE TRAINING

Fellowship          Clinical Neuropsychology, 2010  
                          Department of Psychiatry and Human Behavior, Brown University

POSTGRADUATE HONORS AND AWARDS

2011                 Young Investigator Award  
                          Conference on Retroviruses and Opportunistic Infections

ACADEMIC APPOINTMENTS

2011-                Assistant Professor of Psychiatry and Human Behavior  
                          Alpert Medical School of Brown University

HOSPITAL APPOINTMENTS

2010-                Research Associate  
                          Center for Preventive and Behavioral Medicine, The Miriam Hospital

MEMBERSHIP IN SOCIETIES

International Neuropsychological Society

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Taylor MJ, Letendre SL, Schweinsburg BC, Alhassoon OM, Brown GG, **Gongvatana A**, Grant I; HNRC. Hepatitis C virus infection is associated with reduced white matter N-acetylaspartate in abstinent methamphetamine users. J Int Neuropsychol Soc. 2004 Jan;10(1):110-3. PubMed PMID: 14751013.
2. Woods SP, Rippeth JD, Conover E, **Gongvatana A**, Gonzalez R, Carey CL, Cherner M, Heaton RK, Grant I; HIV Neurobehavioral Research Center Group. Deficient strategic control of verbal encoding

- and retrieval in individuals with methamphetamine dependence. *Neuropsychology*. 2005 Jan;19(1):35-43. PubMed PMID: 15656761.
3. Delis DC, Wetter SR, Jacobson MW, Peavy G, Hamilton J, **Gongvatana A**, Kramer JH, Bondi MW, Corey-Bloom J, Salmon DP. Recall discriminability: utility of a new CVLT-II measure in the differential diagnosis of dementia. *J Int Neuropsychol Soc*. 2005 Oct;11(6):708-15. PubMed PMID: 16248906.
  4. **Gongvatana A**, Woods SP, Taylor MJ, Vigil O, Grant I; HNRC Group. Semantic clustering inefficiency in HIV-associated dementia. *J Neuropsychiatry Clin Neurosci*. 2007 Winter;19(1):36-42. PubMed PMID: 17308225.
  5. Taylor MJ, Schweinsburg BC, Alhassoon OM, **Gongvatana A**, Brown GG, Young-Casey C, Letendre SL, Grant I; HNRC Group. Effects of human immunodeficiency virus and methamphetamine on cerebral metabolites measured with magnetic resonance spectroscopy. *J Neurovirol*. 2007 Apr;13(2):150-9. PubMed PMID: 17505983.
  6. **Gongvatana A**, Schweinsburg BC, Taylor MJ, Theilmann RJ, Letendre SL, Alhassoon OM, Jacobus J, Woods SP, Jernigan TL, Ellis RJ, Frank LR, Grant I; Charter Group. White matter tract injury and cognitive impairment in human immunodeficiency virus-infected individuals. *J Neurovirol*. 2009 Apr;15(2):187-95. PubMed PMID: 19306228; PubMed Central PMCID: PMC3066173.
  7. Cohen RA, **Gongvatana A**. HIV-associated brain dysfunction in the era of HAART: reasons for hope, but continued concern. *Neurology*. 2009 Aug 4;73(5):338-9. Epub 2009 Jun 24. PubMed PMID: 19553591.
  8. Ott BR, Cohen RA, **Gongvatana A**, Okonkwo OC, Johanson CE, Stopa EG, Donahue JE, Silverberg GD, Alzheimer's Disease Neuroimaging Initiative. Brain ventricular volume and cerebrospinal fluid biomarkers of Alzheimer's disease. *J Alzheimers Dis*. 2010;20(2):647-57. PubMed PMID: 20182051; PubMed Central PMCID: PMC3078034.
  9. Cohen RA, Harezlak J, Schifitto G, Hana G, Clark U, **Gongvatana A**, Paul R, Taylor M, Thompson P, Alger J, Brown M, Zhong J, Campbell T, Singer E, Daar E, McMahon D, Tso Y, Yiannoutsos CT, Navia B. Effects of nadir CD4 count and duration of human immunodeficiency virus infection on brain volumes in the highly active antiretroviral therapy era. *J Neurovirol*. 2010 Feb;16(1):25-32. PubMed PMID: 20113183; PubMed Central PMCID: PMC2995252.
  10. Cohen RA, Harezlak J, **Gongvatana A**, Buchthal S, Schifitto G, Clark U, Paul R, Taylor M, Thompson P, Tate D, Alger J, Brown M, Zhong J, Campbell T, Singer E, Daar E, McMahon D, Tso Y, Yiannoutsos CT, Navia B; HIV Neuroimaging Consortium. Cerebral metabolite abnormalities in human immunodeficiency virus are associated with cortical and subcortical volumes. *J Neurovirol*. 2010 Nov;16(6):435-44. Epub 2010 Oct 20. PubMed PMID: 20961212.
  11. Cohen RA, **Gongvatana A**. The persistence of HIV-associated neurocognitive dysfunction and the effects of comorbidities. *Neurology*. 2010 Dec 7;75(23):2052-3. PubMed PMID: 21135377.
  12. Cohen RA, de la Monte S, **Gongvatana A**, Ombao H, Gonzalez B, Devlin KN, Navia B, Tashima KT. Plasma cytokine concentrations associated with HIV/hepatitis C coinfection are related to attention, executive and psychomotor functioning. *J Neuroimmunol*. 2011 Apr;233(1-2):204-10. Epub 2010 Dec 10. PubMed PMID: 21146232; PubMed Central PMCID: PMC3074016.
  13. Bunea F, She Y, Ombao H, **Gongvatana A**, Devlin K, Cohen R. Penalized least squares regression methods and applications to neuroimaging. *Neuroimage*. 2011 Apr 15;55(4):1519-27. Epub 2010 Dec 15. Review. PubMed PMID: 21167288.
  14. Liu J, Cohen RA, **Gongvatana A**, Sheinkopf SJ, Lester BM. Impact of Prenatal Exposure to Cocaine and Tobacco on Diffusion Tensor Imaging and Sensation Seeking in Adolescents. *J Pediatr*. 2011 Jul 1. [Epub ahead of print] PubMed PMID: 21723565.
  15. **Gongvatana A**, Cohen RA, Correia S, Devlin KN, Miles J, Kang H, Ombao H, Navia B, Laidlaw DH, Tashima KT. Clinical contributors to cerebral white matter integrity in HIV-infected individuals. *J Neurovirol*. In Press.

16. Devlin KN, **Gongvatana A**, Clark US, Chasman JD, Westbrook ML, Tashima KT, Navia B, Cohen RA. Neurocognitive effects of HIV, Hepatitis C, and substance use history. *J Int Neuropsychol Soc*. In Press.
17. Sorg SF, Taylor MJ, Alhassoon OM, **Gongvatana A**, Theilmann RJ, Frank LR, Grant I. Frontal White Matter Integrity Predictors of Adult Alcohol Treatment Outcome. *Biol Psychiatry*. In Press.

#### BOOKS AND BOOK CHAPTERS

1. **Gongvatana A**. Signal Detection Theory. In: Kreutzer J, DeLuca J, Caplan B, editors. *Encyclopedia of Clinical Neuropsychology*. New York: Springer; 2010.
2. Correia S, **Gongvatana A**. Diffusion Tensor Imaging. In: Cohen RA, Sweet LH, editors. *Brain Imaging in Behavioral Medicine and Neuropsychology*. New York: Springer; 2010.
3. Cohen RA, **Gongvatana A**, Ott BR. In: Ashford JW, Rosen A, Adamson M, Bayley P, Sabri O, Furst A, Black SE, Weiner M, editors. *Handbook of Imaging the Alzheimer Brain*. In Press.

#### ABSTRACTS

1. Scarano, A., Dorfman, D., **Gongvatana, A.**, & Di Rocco, A. (2000). Cognitive impairment in patients with HIV-associated myelopathy. American Academy of Neurology Meeting, Washington, D.C.
2. Obuchowski, M., Chan, T.C., Pappadopoulos, E., Lencz, T., Coscia, D., Smith, C., **Gongvatana, A.**, Shah, M., Becker, J., Sweeney, J., & Cornblatt, B. (2000). Eye movement dysfunction in adolescents at clinical risk for schizophrenia. Conference of Neuroplasticity and Schizophrenia, Zinal, Switzerland.
3. **Gongvatana, A.**, Dorfman, D., Naseer M., & Morgello, S. (2000). Cognitive processes underlying memory loss in HIV-associated cognitive disorders. Eastern Psychological Association Meeting, Washington, D.C.
4. **Gongvatana, A.**, Smith, C.W., Coscia, D., Chan, T.C., Bowie C., Cornblatt, B., & Obuchowski, M. (2001). The nature of verbal memory impairment in adolescent patients with schizophrenia. American Psychological Society Convention, Toronto, Canada.
5. Moore, D.J., Cherner, M., Masliah, E., Gonzalez, R., Carey, C., **Gongvatana, A.**, Marcotte, T.D., Heaton, R.K., Grant, I., & The HNRC Group. (2003). Neuropsychological impairment predicts multi-region HIV-related neurodegeneration. International Neuropsychological Society Meeting, Honolulu, Hawaii.
6. **Gongvatana, A.**, Marcotte, T., Taylor, M.J., Gonzalez, R., Moore, D.J., Carey, C., Miller, W., Grant, I., Heaton, R., & The HNRC Group (2003). Use of ethnicity-corrected norms in assessing African American and White HIV-infected men. International Neuropsychological Society Meeting, Honolulu, Hawaii.
7. Carey, C., Rippeth, J., Heaton, R.K., Gonzalez, R., Moore, D. J., **Gongvatana, A.**, Marquie Beck, J., Grant, I., & The HNRC Group. (2003). Effects of methamphetamine dependence and HIV disease stage on neuropsychological performance. International Neuropsychological Society Meeting, Honolulu, Hawaii.
8. Woods SP, Rippeth JD, Conover E, **Gongvatana A**, Heaton RK, Grant I, and the HNRC Group. (2004). Deficits in executive control of verbal list learning among individuals with methamphetamine dependence. *J Int Neuropsychol Soc*, 10 (Suppl S1), 199.
9. Schweinsburg B.C., Schweinsburg A.D., Taylor M.J., Tapert S.F., Alhassoon O.M., **Gongvatana A.**, and Grant I. (2004). Frontal and parietal cortex spectroscopy in short and long-term abstinent alcoholics. Research Society on Alcoholism Annual Scientific Meeting, Vancouver, Canada.
10. Alhassoon, O.M., Schweinsburg, B.C., Taylor, M.J., Patterson, T.L., Brown, G.G., **Gongvatana, A.**, Grant, I. (2004) Frontal lobe neurochemical & neuropsychological differences between alcoholic

- subtypes identified through MMPI scale-4: A magnetic resonance spectroscopy study. International Society for Biomedical Research on Alcoholism Meeting, Heidelberg, Germany.
11. Taylor, M.J., Alhassoon, O.M., Schweinsburg, B.C., **Gongvatana, A.**, Theilman, R., & Grant, I. (2006). Relation of microstructural to metabolic markers of cerebral white matter integrity in recently detoxified alcoholics: a diffusion tensor imaging and proton MR spectroscopy study. International Society for Biomedical Research on Alcoholism Meeting, Sydney, Australia.
  12. Taylor, M.J., Schweinsburg, B.C., **Gongvatana, A.**, Alhassoon, O.M., Theilman, R., & Grant I. (2006). Microstructural disruption of white matter integrity in recently-detoxified alcoholics measured with diffusion tensor imaging. International Neuropsychological Society Meeting, Boston, MA.
  13. **Gongvatana A.**, Woods, S.P., Taylor, M.J., Grant, I., & The HNRC Group (2006). Semantic clustering inefficiency in HIV-associated dementia. International Neuropsychological Society Meeting, Boston, MA.
  14. Jacobus J, Schweinsburg BC, Theilmann RJ, Taylor MJ, Woods SP, Harrison TB, **Gongvatana A**, Franklin DR, Letendre SL, Ellis RJ, Heaton RK, Frank LR, Grant I, Jernigan TL. (2008). Neurocognitive performance predicts altered white matter fractional anisotropy in HIV-infected individuals. International Neuropsychological Society Meeting, Portland, OR.
  15. Harrison TB, Schweinsburg BC, Jacobus J, Theilmann RJ, Taylor MJ, Woods SP, **Gongvatana A**, Franklin DR, Ellis RJ, Letendre SL, Heaton R, Frank L, Grant I, Jernigan T. (2008). Abnormal white matter signal and lower CD4 nadir independently predict lower white matter fractional anisotropy in HIV-infected individuals. International Neuropsychological Society Meeting, Portland, OR.
  16. **Gongvatana, A.**, Schweinsburg, B.C., Taylor, M.J., Theilmann, R.J., Letendre, S.L., Alhassoon, O.M., Jacobus, J., Woods, S.P., Jernigan, T.L., Ellis, R.J., Frank, L.R., Grant, I. (2008). White matter tract injury and cognitive impairment in HIV-infected individuals. International Neuropsychological Society Meeting, Waikoloa, Hawaii.
  17. Sorg, S., Taylor, M.J., Schweinsburg, B.C., Alhassoon, O.M., **Gongvatana, A.**, Theilmann, R., Grant, I. (2009). Reduced White Matter Integrity in the Genu of Alcoholics and its Relationship to Processing Speed and Age. International Neuropsychological Society Meeting, Atlanta, GA.
  18. Devlin, K.N., **Gongvatana, A.**, Clark, U.S., Westbrook, M.L., Tashima, K.T., & Cohen, R.A. (2010). Gender Differences in HIV-Associated Cognitive Impairment. Center for AIDS Research Joint Symposium on HIV Research in Women, Chicago, IL.
  19. Clark, U.S., Cohen, R.A., **Gongvatana, A.**, White, T.L., Westbrook, M., Devlin, K.N., Tashima, K.T. (2011). Relation of HIV-Associated Brain Volume Abnormalities to Facial Emotion Recognition Impairments in Individuals with HIV. International Neuropsychological Society Meeting, Boston, MA.
  20. Clark, U.S., Cohen, R.A., **Gongvatana, A.**, Jerskey, B.A., Sweet, L.H., Mulligan, R.C., White, T.L., Tashima, K.T. (2010). Combined effects of HIV and early life stressors on brain structure and neuropsychological function. International Neuropsychological Society Meeting, Krakow, Poland.
  21. **Gongvatana, A.**, Cohen, R.A., Correia, S., Devlin, K.N., Miles, J., Clark, U.S., Westbrook, M., Hana, G., Kang, H., Ombao, H., Navia, B., Laidlaw, D.H., Tashima, K.T. (2011). Impact of Hepatitis C and HIV Coinfection on Cerebral White Matter Integrity. International Neuropsychological Society Meeting, Boston, MA.
  22. Navia, B., Harezlak, J., Schifitto, G., Taylor, M.J., Singer, E., Campbell, T., Daar, E., Yiannoutsos, C., **Gongvatana, A.**, Cohen, R.A., and HIV Neuroimaging Consortium. (2011). A Longitudinal Study of Neurological Injury in HIV-infected Subjects on Stable ART: The HIV Neuroimaging Consortium Cohort Study. Conference on Retroviruses and Opportunistic Infections, Boston, MA.
  23. **Gongvatana, A.**, Cohen, R.A., Correia, S., Devlin, K., Miles, J., Laidlaw, D.H., Ombao, H., Navia, B., Tashima, K.T. (2011). Clinical Factors Associated with Cerebral White Matter Integrity in HIV-infected Individuals. Conference on Retroviruses and Opportunistic Infections, Boston, MA.

24. Daiello LA, **Gongvatana A**, Dunsiger S, Cohen RA, Ott BR, and ADNI. (2011). Association of Fish Oil Supplement Use with Rates of Brain Atrophy and Cognitive Decline in the Alzheimer's Disease Neuroimaging Initiative (ADNI) Cohort. Alzheimer's Association International Conference, Paris, France.

#### INVITED PRESENTATIONS

1. Diffusion Tensor Imaging: Application in the Study of HIV-associated Brain Dysfunction. Thai Red Cross AIDS Research Center, Bangkok, Thailand, October 2009.
2. Neuroimaging of White Matter Integrity and Brain Structural Connectivity in HIV-Associated Dementia. Alzheimer's Disease & Memory Disorders Center at Rhode Island Hospital, January 2011.

#### GRANTS

K99 AA020235, NIAAA, (PI: Gongvatana), 3/1/2011-2/28/2013 (-2/28/2016 pending RoO activation), "Impact of Excessive Alcohol Use in HIV-associated Brain Dysfunction: A Diffusion and Functional MRI Study"

Role: Principal Investigator

P01 AA019072, NIAAA (PI: Peter Monti / Component PI: Ronald Cohen), 9/30/10-8/31/15, "Alcohol and HIV: Biobehavioral Interactions and Intervention – Component 1: Alcohol Effects on HIV-Associated Brain Dysfunction"

Role: Co-investigator