

KATY THAKKAR

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EDUCATION

- 2006-current Department of Psychology, Vanderbilt University Nashville, TN
- M.A. in Psychology
 - Clinical Psychology Ph.D. Candidate, expected completion 2011.
- 2000-2004 Boston University Boston, MA
- BA in Psychology
 - BA in Mathematics, concentration in Statistics
 - Graduated from the Honors Program
 - Graduated Magna Cum Laude

PUBLICATIONS

Manoach, D.S., **Thakkar, K.N.**, Stroynowski, E., Ely, A., McKinley, S.K., Djonlagic, I., Vangel, M.G., Goff, D.C., Stickgold, R.S. (submitted) Reduced overnight consolidation of procedural learning in chronic medicated schizophrenia is related to specific sleep stages.

Thakkar, K.N., Brugger, P., Park, S. (submitted). Exploring empathic space: correlates of perspective transformation ability and biases in spatial attention.

Abubaker, R., Alaerts, M., Allman, A.A., Barnett, J., Belujon, P., Bittner, R.A., Burne, T.H., Cahn, W., Chance, S., Cherkerzian, S., Desouza, R., Di Forti, M., du Bois, T., Fatjó-Vilas, M., Green, M., Halpern, D., John, J.P., Kemp, A., Koelkebeck, K., Lee, J., Lodge, D.J., Michalopoulou, P., Mompremier, L., Nelson, B., Perälä, J., Rotarska-Jagiela, A., Schoeman, R., **Thakkar, K.N.**, Valuri, G., Varambally, S., Zai, C., Delisi, L.E. (2008) Summary of the 1st Schizophrenia International Research Society Conference oral sessions, Venice, Italy, June 21-25, 2008: The rapporteur reports. *Schizophrenia Research*, 105(1-3): 289-383.

Thakkar, K.N., Polli, F.E., Joseph, R.M., Tuch, D.S., Hadjikhani, N., Barton, J.J.S., Manoach, D.S. (2008). Abnormal response monitoring, repetitive behavior, and decreased microstructural integrity of white matter underlying anterior cingulate cortex in autism spectrum disorders. *Brain*, 131: 2464-78.

Thakkar, K.N., Matthews, N., Park, S. (2008) A complete theory of psychosis and autism as diametric disorders of the social brain must consider full range of clinical syndromes. *Behav Brain Sci*, 31(3): 277-278.

Polli, F.E., Barton, J.J.S., **Thakkar, K.N.**, Cain, M.S., Goff, D.C., Rauch, S.L., Manoach, D.S. (2008) Reduced error-related activation in two anterior cingulate circuits is related to impaired performance in schizophrenia. *Brain*, 131(4): 971-86.

Barton, J.J.S., Pandita, M., **Thakkar, K.N.**, Goff, D.C., Manoach, D.S. (2008) The relation between antisaccade errors, fixation stability and prosaccade errors in schizophrenia. *Experimental Brain Research*, 186(2):273-82.

Manoach, D.S., Ketwaroo, G.A., Polli, F.E., **Thakkar, K.N.**, Barton, J.J.S., Goff, D.C., Vangel, M.,

- Tuch, D.S. (2007). The association of reduced microstructural integrity of the anterior cingulum bundle is associated with increased saccadic latency in schizophrenia. *Neuroimage*, 37(2):599-610.
- Manoach, D.S., **Thakkar, K.N.**, Cain, M.S., Polli, F.E., Edelman, J., Barton, J.J.S. (2007). Neural activity is modulated by trial history: An fMRI study of the effects of a prior antisaccade. *Journal of Neuroscience*, 27(7): 1791-1798.
- Polli, F.E., Barton, J.J.S., Cain, M.S., **Thakkar, K.N.**, Rauch, S.L., Manoach, D.S (2005). Rostral and dorsal anterior cingulate cortex make dissociable contributions during antisaccade error commission. *Proceedings of the National Academy of Sciences*, 102(43): 15700-5.

PRESENTATIONS AND POSTERS

- Thakkar, K.N.**, Schall, J.D., Park, S. Response inhibition and response monitoring of saccades in a stop signal task in schizophrenia. Society for Neuroscience, Washington, DC, 2008.
- Thakkar, K.N.**, Park, S. Evidence for intact manipulation of internal representations during mental rotation in schizophrenia. Schizophrenia International Research Society Conference, Venice, 2008.
- Thakkar KN**, Brugger P, Park S. The relationship between visuospatial perspective-taking and empathy: implications for schizophrenia and autism. Vanderbilt Kennedy Center Science Day, Nashville, TN, 2007.
- Ono, K., **Thakkar, K. N.**, Stroynowski, E., Djonlajic, I., Vangel, M.G., Goff, D.C., Stickgold, R., Manoach, D.S. Deficient sleep- and time- dependent consolidation of motor learning in chronic, medicated schizophrenia. Harvard Psychiatry Day, Boston, 2007.
- Roffman, J.L., Weiss, A.P., Purcell, S., Freudenreich, O., Henderson, D.C., Wong, D.H., **Thakkar, K.N.**, Halstead, C.H., Manoach, D.S., Goff, D.C. Interactive effects of methylenetetrahydrofolate reductase polymorphisms and serum folate status on negative symptoms of schizophrenia. Society for Biological Psychiatry, Toronto, 2006.
- Thakkar, K.N.**, Polli, F.E., Barton, J.J.S., Cain, M.S., Joseph, R.M., Hadjikhani, N., & Manoach, D.S. Abnormal anterior cingulate activity during error processing in autism spectrum disorder. Society for Neuroscience, Washington, DC, 2005.
- Manoach, D.S., Cain, M.S., **Thakkar, K.N.**, Polli, F.E., Barton, J.J.S. An fMRI study of the inter-trial effects of antisaccades. Society for Neuroscience, Washington, DC, 2005.
- Polli, F.E., Cain, M.S., **Thakkar, K.N.**, Barton, J.J.S., Manoach, D.S. Intact task-induced deactivation but decreased performance evaluation during antisaccade errors in schizophrenia. Society for Neuroscience, Washington, DC, 2005.
- Tuch, D.S., Ketwaroo, G.A., Cain, M.S., Sauder, C.L., **Thakkar, K.N.**, Polli, F.E., Barton, J.J.S., Manoach, D.S. Mapping the neural circuitry of antisaccade performance using DTI. ISMRM, Miami Beach, FL, 2005.
- Polli, F.E., Barton, J.J.S., Cain, M.S., **Thakkar, K.N.**, Rauch, S.L., Manoach, D.S. Failure to deactivate the 'default mode' network during error commission: A neural model for affective inference of cognition? Massachusetts General Hospital Clinical Research Day, Boston, MA, 2005.
- Polli, F.E., Cain, M.S., **Thakkar, K.N.**, Gallagher, G., Sauder, C., Hamalainen, M.S., Barton,

J.J.S., Manoach, D.S. Magnetoencephalography (MEG) complements functional magnetic resonance imaging (fMRI) to elucidate the role of anterior cingulate cortex in error detection. Massachusetts Neuropsychological Society, Boston, MA, 2005.

GRANTS AND AWARDS

2009 NRSA Predoctoral Fellowship

2008 Vanderbilt Kennedy Center Travel Award

2008 Vanderbilt Developmental Psychopathology Training Grant

2008 Honorable Mention, National Science Foundation (NSF) Graduate Research Fellowship

2007 Runner Up, Vanderbilt Law and Neuroscience Research Prize

- For research proposal investigating issues at the intersection of law and neuroscience

2007 ThinkSwiss Research Scholarship

- Awarded to graduate and undergraduate students to conduct research at a Swiss University

2006 University Fellowship

- Awarded to students in the incoming Vanderbilt University Ph.D. class.

2000 University Scholarship

- Awarded to incoming undergraduate students at Boston University.

RESEARCH AND TRAINING EXPERIENCE

2007 UCLA Advanced Neuroimaging Summer School

- Advanced course in functional MRI data collection and analysis

2007 University Hospital, Zurich

Zurich, Switzerland

Visiting Pre-Doctoral Researcher

- Conducted study examining mental rotation in patients with circumscribed brain lesions
- Conducted study examining relationship between visuospatial perspective-taking and empathic concern in healthy undergraduates

2004-2006 Massachusetts General Hospital, Harvard Medical School

Boston, MA

Research Assistant

- Analyzing and interpreting functional MRI and diffusion tensor imaging data
- Operating magnetoencephalography (MEG) and MRI devices
- Recruiting study participants
- Performing lab managing duties and assisting in grant preparations
- Coordinating study of overnight learning in schizophrenia

2003-2004 Daniels Institute, Boston University

Boston, MA

Research Assistant

- Entering data for use in study on religion and psychology
- Transcribing interviews for pilot study on incorporating spirituality into group treatment for social anxiety
- Performing literature search on Buddhism and psychology
- Assuming receptionist responsibilities

2004 Center for Anxiety and Related Disorders at Boston University (CARD)

Boston, MA

Research Volunteer

- Coding intake and follow-up questionnaires for Classification Study
- Assisting graduate student in dissertation on the neurological basis of compulsive hoarding
- Following up on Classification study participants

CLINICAL EXPERIENCE

2003 Northgate Clinic London, UK

Undergraduate Clinical Intern

- Recording nursing notes for clients in inpatient adolescent psychotherapy unit
- Assisting in planning group therapy sessions, and partook in staff planning meetings
- Counseling and tutoring clients during informal time