Curriculum Vitae

Vincent P. Clark, PhD **August 17th, 2015**

Department of Psychology, Logan Hall
MSC03-2220
The University of New Mexico
Albuquerque, NM 87131-0001

Office (505) 277-2223
Mobile (505) 400-5230
Fax (505) 277-1394
E-mail vclark@unm.edu

MyNCBI page: http://www.ncbi.nlm.nih.gov/myncbi/1ZC6p0p2-p8Qt/cv/58407/

Educational History:

Intramural Research Fellow, 1993-1997
Laboratory of Brain and Cognition, National Institute of Mental Health, NIH.
10 Center Dr., MSC 1366, Bldg. 10, Room 4C104, Bethesda, MD 20892-1366
Major Field of Study: Neuroimaging; Mentors: Dr. Leslie Ungerleider and Dr. James Haxby

Ph.D. in Neuroscience, 1987-1993
Graduate Program in Neuroscience, University of California, San Diego
9500 Gilman Drive, La Jolla CA 92093-0634
Major Field of Study: Cognitive Neuroscience; Dissertation Advisor: Dr. Steven A. Hillyard
Dissertation Title: *Localization and Identification of Functional Regions within the Human Visual System*

B.S. in Psychobiology with Honors in Psychology, 1982-1987
Department of Psychology, University of California, Los Angeles
1285 Franz Hall, Box 951563, Los Angeles, CA 90095-1563
Mentors: Dr. Jack Beatty and Dr. Eric Halgren

Employment History - Principle Positions:

Professor, 2013-Present
Department of Psychology, University of New Mexico, MSC03-2220, 1 University of New Mexico, Albuquerque, NM 87131-1161

Associate Professor, 2002-2013
Department of Psychology, University of New Mexico, MSC03-2220, 1 University of New Mexico, Albuquerque, NM 87131-1161

Assistant Professor, 1997-2002
Department of Psychiatry, University of Connecticut Health Center, MC 1410, 263 Farmington Avenue
Farmington, CT 06030-1410

Employment History - Concurrent Appointments and Consultantships:

Professor, 2012-Present
Translational Neuroscience, The Mind Research Network, 1101 Yale Blvd. NE, Albuquerque, New Mexico 87106

Director, 2011-Present
Psychology Clinical Neuroscience Center, Dept. Psychology, University of New Mexico, 1 University of New Mexico, MSC03-2220, Albuquerque, NM 87131-1161

Associate Professor, 2009-2012
Translational Neuroscience, The Mind Research Network, 1101 Yale Blvd. NE, Albuquerque, New Mexico 87106

Area Head, 2006-2011
Doctoral Program in Cognition, Brain and Behavior, Department of Psychology, University of New Mexico, MSC03-2220, 1 University of New Mexico, Albuquerque, NM 87131-1161

Scientific Director, 2006-2009
The MIND Institute and Research Network, 1101 Yale Blvd. NE, Albuquerque, New Mexico 87106

Director of Neuroscience, 2004-2006
The Mental Illness and Neuroscience Discovery (MIND) Institute, 1101 Yale Blvd. NE, Albuquerque, New Mexico, 87106

Staff Scientist, 2002-2004
The Mental Illness and Neuroscience Discovery (MIND) Institute, 1101 Yale Blvd. NE, Albuquerque, New Mexico, 87106

Associate Professor, Secondary Appointment, 2003-Present
Department of Neuroscience, University of New Mexico, MSC08-4740, 1 University of New Mexico, Albuquerque, NM 87131

Faculty Member, 1998-2002
Program in Biomedical Engineering, Room 217, A.B. Bronwell Building, 260 Glenbrook Road, Unit 2247, University of Connecticut, Storrs, CT 06269-2247

Visiting Scientist and Lecturer, 1996-1997
Department of Psychology, O'Boyle Hall Room 314, The Catholic University of America, Washington DC 20064

Professional Recognition, Honors, etc.:

Education Chair (Elected by peers), 2007-2010
Organization for Human Brain Mapping

Post-Doctoral Training Fellowship (Competitive), 1993
McDonnell-Pew Center for Cognitive Neuroscience, UCSD

Fellowship (Competitive), 1991
Dartmouth Summer Institute in Cognitive Neuroscience

Pre-Doctoral Training Fellowships (Competitive), 1990-1993
McDonnell-Pew Center for Cognitive Neuroscience, UCSD

Honors in Psychology, 1987
Department of Psychology, University of California, Los Angeles

Dean's Honors List (Selected quarters), 1982-1987
College of Letters and Sciences, University of California, Los Angeles

National Merit Scholarship Semifinalist, 1982
Grosse Pointe South High School, Grosse Pointe, MI

Short Narrative Description of Research, Teaching and Service Interests

Research: I utilize neuroimaging (EEG, MEG, fMRI, DTI and MRS) and neurostimulation (tDCS) to examine hypotheses regarding the mechanisms of attention, perception and memory in healthy people and how these processes are altered in patients with brain and mental illness. My current research interests include three major areas: 1) The application of neuroimaging for the study and diagnosis of neurological and psychiatric disorders; 2) The development of novel treatment modalities for neurological and psychiatric illnesses; 3) The development of brain stimulation techniques for neuroenhancement in healthy volunteers. In Web of Science, I have an *H*-index of 25, 33 in Google Scholar with an i10 of 58, and *H* and i10 of 26 and 53 since 2010, respectively. I have helped to acquire over $60 million in extramural funding, acquiring and/or managing approximately $9 million of this as PI and an additional $23 million as Director or Scientific Director, including a contract with IARPA to develop methods to enhance adaptive reasoning and problem solving using tDCS in combination with fMRI and behavioral training methods. During my training and later as a postdoc and junior faculty member, I have helped to develop a number of new technologies used in cognitive neuroscience, which were summarized in an invited article for a recent issue of *NeuroImage* commemorating the 20th anniversary of fMRI. My addiction and brain stimulation work has been described in *Nature, The New York Times, NPR, The Atlantic, Psychology Today, ABC Nightline, The New Yorker* and other media outlets in the US and internationally. The recent illness of my son has influenced me to pursue a new research direction: the diagnosis and treatment of chronic pain and motor illness, and more broadly the combined use of neuroimaging and neurostimulation to improve treatments for brain and mental illness. This work led to my recent TEDx talk.

Teaching and Mentoring: I supervise and maintain an active research laboratory for training, and I have organized a variety of courses at the graduate and undergraduate level, and have also organized a number of professional meetings and courses for the broader scientific community. Three of my former students have completed their PhDs and another four have completed their Masters. I currently support three graduate and 9 undergraduate students in my laboratory, including two honors students and have also mentored three minority undergraduates from the McNair Achievement Program. I teach several courses including Brain and Behavior, Intro to Functional Neuroimaging, Advanced Functional Neuroimaging, Clinical Neuroimaging, CBB Seminar, and both EEG Laboratory and Introduction to the CNC Laboratory. These lab courses are designed to train students to use the facilities offered by our new Psychology Clinical Neuroscience Center, for which I am founding Director. I have chaired a number of scientific meetings here in Albuquerque, including a recent workshop entitled *Imaging Neuroinflammation and Neuropathic Pain* with 30 presenters from 7 countries, leading to a special issue of the *Journal of NeuroImmune Pharmacology* (Vol. 8, Issue 3, 2013) that I co-edited. I was also elected Education Chair by my peers for the Organization for Human Brain Mapping, where I helped to organize 20 courses for approximately 1500 attendees for meetings in Melbourne, San Francisco and Barcelona, and directed two courses for approximately 150 attendees: *Multimodal Imaging* in 2010 in Barcelona, and *Brain Stimulation* in 2014 in Hamburg. I am currently organizing a satellite meeting for OHBM in Honolulu this June, 2015 entitled *Hawaii Brain Stimulation and Imaging Meeting*. See http://brainstim2015.org for details.

Service: My service interests have focused on facilitating cognitive neuroscience research and education nationally and internationally, and also on developing and promoting neuroimaging research infrastructure here at UNM for faculty and students, which barely existed when I arrived. I was recruited to UNM in 2002 to help build and organize the Mind Research Network (www.mrn.org). While Director of Neuroscience, and then as Scientific Director, I helped to purchase, organize and manage its research infrastructure, including an HD-EEG suite, a 1 million SNP Illumina genome system, 3 MRIs and 2 MEGs, including the first mobile MRI capable of functional imaging, and extensive data processing resources. I mentored 12 junior scientists and hired 3 senior scientists, and extramural funding increased from less than $500,000 (and $7 million in debt) to more than $20 million, with over 300 employees and volunteers. I also served as Area Head for the UNM Graduate Program in Cognition, Brain and Behavior, and in 2013 I served as Chair of the Junior Promotion and Tenure Committee for College of Arts and Sciences. In addition, I served as Handling Editor for *NeuroImage*, and serve on the Editorial Boards of *Human Brain Mapping* and *Brain Stimulation*. I also serve as an Advisor to the Science & Entertainment Exchange in the National Academy of Sciences. Finally, I am currently the founding Director of the newly created Psychology Clinical Neuroscience Center, a 10,000 s.f. facility with 3 HD-EEG labs, brain stimulation labs with TMS, tDCS and tACS/tRNS, a data processing core, meeting and testing rooms, and lab and office space for 6 faculty and over 20 students.

Scholarly Achievements

Books Authored or Co-authored:
None.

Books Edited or Co-edited:
None.

Refereed Articles:
(Corresponding authorship indicated by "*")

1. Kim C, Kroger JK, Calhoun VD, **Clark VP.** (2015). The role of the frontopolar cortex in manipulation of integrated information in working memory. *Neuroscience Letters,* 595:25-29. pii: S0304-3940(15)00237-2. doi: 10.1016/j.neulet.2015.03.044.
2. *Hunter, M.A., Coffman, B.A., Gasparovic, C., Calhoun, V.D., Trumbo, M.C., **Clark, V.P.** (2015). Baseline effects of transcranial direct current stimulation on glutamatergic neurotransmission and large-scale network connectivity. *Brain Research*, 1594:92-107. pii: S0006-8993(14)01339-0. doi: 10.1016/j.brainres.2014.09.066.
3. Plis, S.M., Sui, J., Lane, T., Roy, S., **Clark, V.P.**, Potluru, V.K., Huster, R.J., Michael, A., Sponheim, S.R., Weisend, M.P., Calhoun, V.D. (2014). High-order interactions observed in multi-task intrinsic networks are dominant indicators of aberrant brain function in schizophrenia. *NeuroImage*, 102(1):35-48. pii:S1053-8119(13)00797-0. doi:10.1016/j.neuroimage.2013.07.041.
4. ***Clark, V.P.** (2014) The ethical, moral and pragmatic rationale for brain augmentation. *Frontiers in Systems Neuroscience.* 8, 130. doi: 10.3389/fnsys.2014.00130.
5. Thompson, P.M … **Clark, V.P.** … [and 287 other authors] … Alzheimer's Disease Neuroimaging Initiative, EPIGEN Consortium, IMAGEN Consortium, Saguenay Youth Study (SYS) Group (2014). The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. *Brain Imaging and Behavior*, 8(2):153-182. doi:10.1007/s11682-013-9269-5.
6. ***Clark, V.P.**, Beatty, G., Anderson, R.E., Kodituwakku, P., Phillips, J., Lane, T.D.R., Kiehl, K.A, Calhoun, V.D. (2014). Reduced fMRI activity predicts relapse in patients recovering from stimulant dependence. Human Brain Mapping, 35(2), 414-428. doi:10.1002/hbm.22184.
7. *Coffman, B.A., **Clark, V.P.**, Parasuraman R. (2014). Battery powered thought: A review of methods for cognitive enhancement using transcranial direct current stimulation. *NeuroImage*, 85(3):895–908. doi:pii: S1053-8119(13)00855-0. 10.1016/j.neuroimage.2013.07.083.
8. Steele, V.R., Fink, B.C., Maurer, J.M.M., Arabshirani, M.R., Wilber, C.H., Jaffe A.J., Sidz, A., Pearlson, G.D., Calhoun, V.D., **Clark, V.P.**, Kiehl, K.A. (2013). Brain potentials measured during a go/nogo task predict completion of substance abuse treatment. *Biological Psychiatry,* 76(1):75-83. pii:S0006-3223(13)00903-7. doi:10.1016/j.biopsych.2013.09.030.
9. *Hunter, M.A., Coffman, B.A., Trumbo, M.C., **Clark, V.P.** (2013). Tracking the neuroplastic changes associated with transcranial direct current stimulation: a push for multimodal imaging. *Frontiers in Human Neuroscience*, 7:495. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3753560/
10. Gollub, R.L., Shoemaker, J.M., King, M.D., White, T., Ehrlich, S., Sponheim, S.R., **Clark, V.P.**, Turner, J.A., Mueller, B.A., Magnotta, V., O'Leary, D., Ho, B.C., Brauns, S., Manoach, D.S., Seidman, L., Bustillo, J.R., Lauriello, J., Bockholt, J., Lim, K.O., Rosen, B.R., Schulz, S.C., Calhoun, V.D., Andreasen, N.C. (2013). The MCIC collection: A shared repository of multi-modal, multi-site brain image data from a clinical investigation of schizophrenia. *Neuroinformatics*, 11(3):367-388. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3727653/
11. Cooper, M.S., **Clark, V.P.** (2013). Neuroinflammation, neuroautoimmunity, and the co-morbidities of complex regional pain syndrome. *Journal of NeuroImmune Pharmacology*, 8(3):452-469. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3661922
12. *Coffman, B.A., Trumbo, M.C., **Clark, V.P.** (2012). Enhancement of object detection with transcranial direct current stimulation is associated with increased attention. *BMC Neuroscience*, 13:108. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3494452

13. Sui, J., He, H., Pearlson, G.D., Adali, T., Kiehl, K.A., Yu, Q., **Clark, V.P.**, Castro, E., White, T., Mueller, B.A., Ho. B.C., Andreasen, N.C., Calhoun, V.D. (2012). Three-way (N-way) fusion of brain imaging data based on mCCA+jICA and its application to discriminating schizophrenia. *NeuroImage*, 66C:119-132. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897558
14. He, H., Sui, J., Yu, Q., Turner, J.A., Ho, B.C., Sponheim, S.R., Manoach, D.S., **Clark, V.P.**, Calhoun, V.D. (2012). Altered small-world brain networks in schizophrenia patients during working memory performance. *PLoS ONE*, 7(6):e38195. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3368895
15. *Coffman, B.A., Trumbo, M.C., Flores, R.A., Garcia, C.M., van der Merwe, A.J., Wassermann, E.M., Weisend, M.P., **Clark, V.P.** (2012). Impact of tDCS on performance and learning of target detection: Interaction with stimulus characteristics and experimental design. *Neuropsychologia*, 50(7):1594-1602.
16. Sims, A.B., **Clark, V.P.**, Cooper, M.S. (2012). Suppression of movement disorders by jaw realignment. *Pain Medicine*, 13(5):731-732.
17. Falcone, B., Coffman, B.A., **Clark, V.P.**, Parasuraman, R. (2012). Transcranial direct current stimulation augments perceptual sensitivity and 24-hour retention in a complex threat detection task. *PLoS ONE*, 7(4): e34993.
18. ***Clark, V.P.** (2012). A history of randomized task designs in fMRI. *NeuroImage*, 62(2): 1190–1194.
19. Cullen, K.R. Wallace, S., Magnotta, V.A., Bockholt, J., Erlich, S., Gollub, R.L., Manoach, D., Ho, B.C., **Clark, V.P.**, Lauriello, J., Bustillo, J.R., Schulz, S.C., Andreasen, N.C., Calhoun, V.D., Lim, K.O., White, T. (2012). Cigarette smoking and white matter microstructure in schizophrenia. *Psychiatry Research: Neuroimaging*, 201(2):152-158.
20. ***Clark, V.P.**, Coffman, B.A., Mayer, A.R., Weisend, M.P., Lane, T.D.R., Calhoun, V.D., Raybourn, E.M., Garcia, C.M., Wassermann, E.M. (2012). TDCS guided using fMRI significantly accelerates learning to identify concealed objects. *NeuroImage,* 59(1):117-128.
21. ***Clark, V.P.**, Coffman, B.A., Trumbo, M.C., Gasparovic, C. (2011). Transcranial direct current stimulation (tDCS) produces localized and specific alterations in neurochemistry: A 1H magnetic resonance spectroscopy study. *Neuroscience Letters*, 500(1): 67-71.
22. Stone, D.B., Urrea, L.J., Aine, C.J., Bustillo, J.R., **Clark, V.P.**, Stephen, J.M. (2011). Unisensory processing and multisensory integration in schizophrenia: A high-density electrical mapping study. *Neuropsychologia*, 50(7): 1594-1602.
23. 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.
24. Plis, S., Weisend, M.P., Damaraju, E., Eichele, T., Mayer, A., **Clark, V.P.,** Lane, T.D.R., Calhoun, V.D. (2011). Effective connectivity analysis of fMRI and MEG data collected under identical paradigms. *Computers in Biology and Medicine*, 41(12): 1156–1165.
25. Allen, E.A., Erhardt, E.B., Damaraju, E., Gruner, W., Segall, J.M., Silva, R.F., Havlicek, M., Rachakonda, S., Fries, J., Kalyanam, R., Michael, A.M., Caprihan, A., Turner, J.A., Eichele, T., Adelsheim, S, Bryan, A., Bustillo, J., **Clark, V.P.,** Feldstein Ewing, S., Filbey, F., Ford, C., Hutchison, K., Jung, R.E., Kiehl, K.A., Kodituwakku, P., Komesu, Y., Mayer, A.R., Pearlson, G., Phillips, J., Sadek, J., Stevens, M., Teuscher, U., Thoma, R.J., Calhoun, V.D. (2011). A baseline for the multivariate comparison of resting state networks. *Frontiers in Systems Neuroscience*, 5:2.
26. Abbott, C., Juárez, M., White, T., Gollub, R.L., Pearlson, G.D., Bustillo, J. Lauriello, J., Ho, B.C., Bockholt, H. J., **Clark**, **V.P.**, Magnotta, V., Calhoun, V.D. (2011). Antipsychotic dose and diminished neural modulation: A multi-site fMRI study. *Progress in Neuro-Psychopharmacology & Biological Psychiatry,* 35(2):473-482.
27. White, T., Magnotta, V.A., Bockholt, H.J., Williams, S., Gollub, R.L., Mueller, B.A., Ho, B.C., Jung, R., **Clark, V.P.**, Lauriello, J., Bustillo, J.R., Schulz, S.C., Andreasen, N.C., Calhoun, V.D., Lim. K.O. (2011). Global white matter abnormalities in schizophrenia: a multisite diffusion tensor imaging study. *Schizophrenia Bulletin,* 37(1):222-232.
28. Kim, D.I, Sui, J., Rachakonda, S., White, T., Manoach, D. S., **Clark, V. P.**, Ho, B. C., Schulz, S. C. and Calhoun, V. D. (2010). Identification of imaging biomarkers in schizophrenia: A coefficient-constrained independent component analysis of the Mind multi-site schizophrenia study. *Journal of NeuroInformatics*, 8(4):213-229.

29. Ehrlich, S., Morrow, E.E., Roffman, J.L., Wallace, S.R., Naylor, M., Bockholt, H.J., Lundquist, A., Yendiki, A., Ho , B.C., White, T., Manoach, D., **Clark, V.P.**, Calhoun, V.D., Gollub, R.L., Holt, D.J. (2010). The COMT Val108/158Met polymorphism and medial temporal lobe volumetry in patients with schizophrenia and healthy adults. *NeuroImage*, 53(3): 992-1000.

30. Michael, AM, Baum, SA, White, T, Demirci, O, Andreasen, NC, Segall, JM, Jung, RE, Pearlson, G, **Clark, VP**, Gollub, RL, Schulz, SC, Roffman JL, Lim, KO, Ho, BC, Bockholt, HJ, Calhoun, VD. (2010). Does function follow form?: Methods to fuse structural and functional brain images show decreased linkage in schizophrenia. *NeuroImage*, 49(3):2626-2637.

31. Kim, D.I., Manoach, D.S., Mathalon, D.H., Turner, J.A., Mannell, M., Brown, G.G., Ford, J.M., Gollub, R.L., White, T., Wible, C., Belger, A., Bockholt, H.J., **Clark, V.P.**, Lauriello, J., O'Leary, D., Mueller, B.A., Lim, K.O., Andreasen, N., Potkin, S.G., Calhoun, V.D. (2009). Dysregulation of working memory and default-mode networks in schizophrenia using independent component analysis, an fBIRN and MCIC study. Human Brain Mapping, 30(11):3795-3811.

32. Demirci, O., Stevens, M.C., Andreasen, N.C., Michael, A., Liu, J.Y., White, T., Pearlson, G.D., **Clark, V.P.**, Calhoun, V.D. (2009). Investigation of relationships between fMRI brain networks in the spectral domain using ICA and Granger causality reveals distinct differences between schizophrenia patients and healthy controls. *NeuroImage*, 46(2):419-431.

33. Sui, J., Adali, T., Pearlson, G.D., **Clark, V.P.**, Calhoun, V.D. (2009). A method for accurate group difference detection by constraining the mixing coefficients in an ICA framework. *Human Brain Mapping*, 30(9): 2953-2970.

34. *Burge, J., Lane, T., Link, H., Qiu, S., **Clark, V.P.** (2009). Discrete dynamic Bayesian network analysis of fMRI data. *Human Brain Mapping*, 30(1):122-137.

35. Segall, J.M., Turner, J.A., van Erp, T.G.M., White, T., Bockholt, H.J., Gollub, R.L., Ho, B.C., Magnotta, V., Jung, R.E., McCarley, R.W., Schulz, S.C., Lauriello, J., **Clark, V.P.**, Voyvodic, J.T., Diaz, M.T., Calhoun V.D. (2009). Voxel-based morphometric multi-site collaborative study on schizophrenia. *Schizophrenia Bulletin*, 35(1):82-95.

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37. *Leyba, L., Mayer, A.R., Gollub, R.L., Andreasen, N.C, **Clark, V.P.** (2008). Smoking status as a potential confound in the BOLD response of patients with schizophrenia. *Schizophrenia Research,* 104(1):79-84.

38. Roffman, J.L., Gollub, R.L., Calhoun, V.D., Wassink, T.H., Weiss, A.P., Ho, B.C., White, T., **Clark, V.P.**, Fries, J., Andreasen, N.C., Goff, D.C., Manoach, D.S. (2008). MTHFR 677C→T genotype disrupts prefrontal function in schizophrenia through an interaction with COMT 158Val→Met. *PNAS*, 105(45):17573-17578.

39. Demirci, O., **Clark, V.P.**, Calhoun, V.D. (2008). A projection pursuit application to detect schizophrenia using fMRI data. *NeuroImage,* 39(4):1774-1782.

40. Demirci, O., **Clark, V.P.**, Magnotta, V.A., Andreasen, N.C., Lauriello, J., Kiehl, K.A., Pearlson, G.D., Calhoun, V.D. (2008). A review of challenges in the use of fMRI for disease classification / characterization and a projection pursuit application from multi-site fMRI schizophrenia study. *Brain Imaging and Behavior*, 2(3):207-226.

41. Whalen, D., Benson, R. Richardson, M., Swainson, B., **Clark, V.P.**, Lai, S., Mencl, W., Fulbright, R., Constable, R.T., Liberman, A. (2006). Differentiation of speech and non-speech processing within primary auditory cortex. *Journal of the Acoustical Society of America*, 119(1):575-581.

42. Stevens, M.C., **Clark, V.P.**, Prestwood, K.M. (2005). Low-dose estradiol alters brain activity. *Psychiatry Research: Neuroimaging,* 139(3):199-217.

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44. ***Clark, V.P.**, Lai, S., Deckel, A.W. Altered functional MRI responses in Huntington's disease. (2002). *Neuroreport*, 13(5):703-706.

45. ***Clark, V.P.**, Fannon, S., Lai, S., Benson, R. (2001). Paradigm-dependent modulation of event-related fMRI activity evoked by the oddball task. *Human Brain Mapping*, 14(2): 116-127.

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47. ***Clark, V.P.**, Fannon, S., Lai, S., Benson, R., Bauer, L. (2000). Responses to rare visual target and distractor stimuli using event-related fMRI. *Journal of Neurophysiology*, 83(5): 3133-3139.

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49. Haxby, J.V., Ungerleider, L.G., **Clark, V.P.**, Schouten, J.L., Hoffman, E.A., Martin, A. (1999). The effect of face inversion on activity in human neural systems for face and object perception. *Neuron*, 22: 189-199.

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53. ***Clark, V.P.**, Parasuraman, R., Keil, K., Kulansky, R., Fannon, S., Maisog, J.Ma., Ungerleider, L., Haxby, J.V. (1997). Selective attention to face identity and color studied with fMRI. *Human Brain Mapping*, 5(4): 293-297.

54. Petit, L., **Clark, V.P.**, Ingeholm, J., Haxby, J.V. (1997). Dissociation of saccade-related and pursuit-related activation in human frontal eye fields as revealed by fMRI. *Journal of Neurophysiology*, 77: 3386-3390.

55. Bavelier, D., Corina, D., Jezzard, P., Padmanabhan, S., **Clark, V.P.**, Karni, A., Prinster, A., Braun, A., Lalwani, A., Rauschecker, J., Turner, R., Neville, H. (1997). Sentence reading: A functional MRI study at 4 Tesla. *Journal of Cognitive Neuroscience*, 9: 664-686.

56. ***Clark, V.P.**, Keil, K., Maisog, J.Ma., Courtney, S.M., Ungerleider, L.G., Haxby, J.V. (1996). Functional magnetic resonance imaging of human visual cortex during face matching: A comparison with positron emission tomography. *NeuroImage*, 4(1): 1-15.

57. **Clark, V.P.** and Hillyard, S.A. (1996). Spatial selective attention affects early extrastriate but not striate components of the visual evoked potential. *Journal of Cognitive Neuroscience*, 8(5): 387-402.

58. **Clark, V.P.**, Fan, S., Hillyard, S.A. (1995). Identification of early visual evoked potential generators by retinotopic and topographic analyses. *Human Brain Mapping*, 2: 170-187.

59. Gomez, C.M.G., **Clark, V.P.**, Fan, S., Luck, S.J. Hillyard, S.A. (1994). Sources of attention-sensitive visual evoked potentials. *Journal of Brain Topography*, 7(1):41-51.

60. Luck, S.J., Hillyard, S.A., Mouloua, M., Woldorff, M.G., **Clark, V.P.**, Hawkins, H.L. (1994). Effects of spatial cueing on luminance detectability: Psychophysical and electrophysiological evidence. *Journal of Experimental Psychology, Human Perception and Performance,* 20(4): 887-904.

61. Mangun, G.R., Luck, S.J., Plager, R., Loftus, W., Hillyard, S.A., Handy, T., **Clark, V.P.** Gazzaniga, M.S. (1994). Monitoring the visual world: Hemispheric asymmetries and subcortical processes in attention. *Journal of Cognitive Neuroscience*, 6(3): 267-275.

62. ***Clark, V.P.**, Courchesne, E., Grafe, M. (1992). *In-vivo* myeloarchitectonic analysis of human striate and extrastriate cortex using magnetic resonance imaging. *Cerebral Cortex*, 2: 417-424.

Editorials:

1. ***Clark V.P.**, Parasuraman R. (2014). Neuroenhancement: Enhancing brain and mind in health and in disease. *NeuroImage*, 85(3):889–894. doi:pii: S1053-8119(13)00938-5. 10.1016/j.neuroimage.2013.08.071.

2. Chang, L., Cooper, M.S., **Clark, V.P.** (2013). Imaging biomarkers and the role of neuroinflammation in neuropathic pain. *Journal of NeuroImmune Pharmacology*, 8(3):448-451.

Articles Appearing in Chapters in Edited Volumes:

1. ***Clark, V.P.**, Coffman, B.A., Trumbo, M.C.S., Wegele, A.R. (2013). An evolutionary perspective on attentional processes. pp. 207–215. In: G.R. Mangun (Ed.) *Cognitive Electrophysiology of Attention*. Elsevier. https://books.google.com/books?id=WcBuAAAAQBAJ&pg=PA207&lpg=PA207
2. Oyen, D. Niculescu-Mizil, A., Ostroff, R., Stewart, A., **Clark, V.P.** (2013). Controlling the precision-recall tradeoff in differential dependency network analysis. *arXiv*:1307.2611.
3. Clark, R.E., **Clark, V.P.** (2010). From neo-behaviorism to neuroscience: Perspectives on the origins and future contributions of cognitive load research. In: *Cognitive Load: Theory & Applications*. J.L. Plass, R. Moreno and R. Brünken (Eds.) Cambridge University Press, Cambridge, England, 203-228. https://books.google.com/books?id=RcMLAQAAQBAJ&pg=PA203&lpg=PA203
4. ***Clark, V.P.** (2006). Attention. In: Encyclopedia of Human Development. N.J. Salkind, Neil J. (Ed.). Sage Publications. Thousand Oaks, CA, pp. 133-136.
5. ***Clark, V.P.** (2006). Structural and Functional Brain Imaging. In: *Encyclopedia of Human Development.* N.J. Salkind, Neil J. (Ed.). Sage Publications. Thousand Oaks, CA, pp. 1232-1235.
6. ***Clark, V.P.** (2006). Huntington's Chorea. In: *Encyclopedia of Human Development.* N.J. Salkind, Neil J. (Ed.). Sage Publications. Thousand Oaks, CA, pp. 660-661.
7. Burge, J., **Clark, V.P.**, Lane, T., Link, H., Qiu. S. (2004). *Bayesian classification of fMRI data: Evidence for altered neural networks in dementia.* Technical Report TR-CS-2004-28, University of New Mexico, Albuquerque, NM.
8. Haxby, J.V., Courtney, S.C., **Clark, V.P.** (1998). Functional magnetic resonance imaging and the study of attention. In: *The Attentive Brain.* R. Parasuraman (Ed.). MIT Press, Cambridge, pp. 123-142.
9. Haxby, J.V., **Clark, V.P.**, Courtney, S.C. (1997). Distributed hierarchical neural systems for visual memory in human cortex. In: *Connections, Cognition, and Alzheimer's Disease.* B. Hyman, C. Duyckaerts, Y. Christen (Eds.). Springer, Berlin, pp. 167-180.
10. Hillyard, S.A., Anllo-Vento, L., **Clark, V.P.**, Heinze, H., Luck, S.J., and Mangun, G.R. (1996). Neuroimaging approaches to the study of visual attention: A Tutorial. In: *Converging Operations in the Study of Visual Selective Attention.* M. Coles, A. Kramer and G. Logan (Eds.). American Psychological Association, pp. 107-138.

Other Writings: (not abstracts)

None.

Works in Progress:

Submitted for publication:

1. Trumbo, M., Jones, A., **Clark, V.P.** The testing effect: A century of systematic study and neglect. Revision submitted.
2. Robert. J. Thoma, Charlotte Chaze, Vince D. Calhoun, **Vincent P. Clark,** Juan Bustillo, Jon Houck, Judith Ford, Rose Bigelow, Corbin Wilhelmi, Jessica A. Turner. Multiple neural networks underlying auditory verbal hallucinations in schizophrenia during fMRI. Revision submitted.
3. Shuguang Leng, Joel L. Weissfeld, Maria A. Picchi, Mindi A. Styn, Eric D. Claus, **Vincent P. Clark**, Guodong Wu, Cynthia L. Thomas, Frank D. Gilliland, Jian-min Yuan, Jill M. Siegfried, Steven A. Belinsky. Characterization of determinants for smoking behavior changes in two longitudinal smoker cohorts. In revision.
4. Piyadassa W. Kodituwakku, Robert Anderson, **Vincent P. Clark**. Deficient response monitoring predicts relapse to stimulant abuse. Submitted, undergoing revisions.
5. James K. Kroger, Chobok Kim, Doerte Spring, **Vincent P. Clark**, Vince D. Calhoun. A dissociation between frontopolar activation during maintenance and manipulation of integrated information: an fMRI study. Submitted, in revision.

In preparation:

1. James K. Kroger, Chobok Kim, Doerte Spring, **Vincent P. Clark**, and Vince D. Calhoun. Frontopolar cortex recruitment in exogenously cued attention switching.
2. James K. Kroger, Doerte K. Spring, Chobok Kim, Alisha Craine, Hannah Kinkel, **Vincent P. Clark**. Mental manipulation of a complex visual stimulus: an ERP study.

Invited or Refereed Abstracts and/or Presentations at Professional Meetings:

1. Combining Neuroimaging and Neurostimulation for Clinical and Cognitive Research. Principal Investigator Meeting, Mind Research Network, July 2015.
2. Neurostimulation Combined with Neuroimaging for Cognitive and Clinical Research. Brain Mapping Center Seminar Series, UCLA Brain Mapping Center, Los Angeles, CA. April 2015.
3. Neuroimaging Combined with Neurostimulation for Cognitive and Clinical Research. Texas Tech, Lubbock, TX, Jan. 2015.
4. The Next Stages of Neuroenhancement: From Optimism to Enthusiasm. Invited speaker, NYC Neuromodulation 2015 Conference, New York, NY, Jan. 2015. https://www.youtube.com/watch?v=35u1_FrED30
5. Neuroimaging Combined with Neuroenhancement for Cognitive and Clinical Research. Medical University of South Carolina, Sep. 2014.
6. Neuroenhancement: Some Novel Methods to Alter Brain and Behavior. School of Psychology, Bangor University, Wales, UK, June 2014.
7. TDCS for Cognitive Enhancement and Treatment of Brain and Mental Illness. University of Hawaii, Honolulu, HI, June 2014.
8. Combined Brain Stimulation and Imaging Studies to Develop Novel Treatments for Brain and Mental Illness. National University of Singapore, Department of Psychology, April 2014.
9. Increased Threat Detection and Learning With Low-Level Transcranial Direct Current Stimulation (tDCS). Invited speaker, Adaptive Responses in Biology and Medicine. University of Massachusetts Amherst, April 22 - 23, 2014. https://www.youtube.com/watch?v=ncgk2p4LI3I
10. Diagnosis and Treatment of Neuroinflammation and Chronic Pain - Or - How Being a Father Can Change Your Life. Student Interest Group in Neurology (SIGN), University of New Mexico Medical School, Jan 2014.
11. "Current and Future Applications of tDCS" and "Using Transcranial Direct Current Stimulation (tDCS) for Enhancement." Special invited guest speaker, Southwest University, Chongqing, China, Dec. 2013.
12. The Future of Neuroenhancement: Reasons To Be Optimistic. Invited speaker, NYC Neuromodulation 2013 Conference, New York, NY, Nov. 2013.
13. TDCS for Cognitive Enhancement. Invited speaker, Summit on Transcranial Direct Current Stimulation (tDCS), UC Davis Center for Mind & Brain, Davis, CA, Oct. 2013. http://www.youtube.com/watch?v=dUMUIXNeBRQ - 33,712 total views.
14. Why Should We Care about Brain Stimulation? Chair's introduction to "Brain Stimulation" symposium. One of four non-concurrent symposiums selected by committee for the Organization for Human Brain Mapping meeting, Seattle, WA, June 2013.
15. Simpler Medicine: What Psychology Can Offer Modern Health Care. Keynote Address, Department of Psychology Convocation, UNM, May 2013.
16. From the Review Committee's Perspective - What You Should Know. Junior Tenure and Promotion Chair's presentation to junior Arts and Sciences College faculty, UNM, March 2013.
17. Oral Orthotics For the Treatment of Spasmodic Torticollis. Invited Presentation, National Spasmodic Torticolis Association Meeting, New Orleans, LA, 2012.
18. New Solutions for Some Old Problems: Brain Stimulation and Oral Orthotics for the Treatment of Pain and Motor Illness. PAL Talk, Dept. Psychology, UNM, 2012.

19. Starting a Small Revolution in Medicine. TEDxABQ, Albuquerque, NM, 2012. http://www.youtube.com/watch?v=iNWBveV7RBI
20. Using tDCS to Alter Visual Perception and Learning. Spaulding Rehabilitation Hospital, Harvard Medical School, Boston, MA, 2012.
21. Neuroimaging, Neuroinflammation, and Neural Information Processing. Imaging Neuroinflammation and Neuropathic Pain. Meeting of the Reflex Sympathetic Dystrophy Syndrome Association, Albuquerque, NM, 2011. http://www.youtube.com/watch?v=8kB_cbPhfIU
22. Prediction of Relapse to Stimulant Use with fMRI. University of Hawaii, Honolulu, HI, 2011.
23. Artificial Attention using Brain Stimulation. Cognitive Electrophysiology: Signals of the Mind, a Tribute to Steven A. Hillyard. San Francisco, CA, 2011.
24. Increased Learning and Performance using Brain Stimulation and Neuroimaging. Student-Invited Lecture. Tulane University, New Orleans, LA, 2011.
25. Acceleration of Learning to Identify Concealed Threats using Brain Stimulation Targeted with Neuroimaging. Los Alamos National Laboratory, Los Alamos, NM, 2011.
26. Clark, V.P., Coffman, B.A., Garcia, C., Weisend, M. P., Lane, T.D.R., Mayer, A., Raybourn, E.M., Calhoun, V.D., Wassermann, E.M. Transcranial direct current stimulation (TDCS) targeted using brain imaging accelerates learning. Oral Presentation, Brain Stimulation session. Organization for Human Brain Mapping, Barcelona, Spain, 2010.
27. Improving Learning and Performance Using Electrical Brain Stimulation. PAL Talk, Dept. Psychology, UNM, 2010.
28. Learning to Recognize Concealed and Disguised Objects: A Combined Multimodal Imaging and Brain Stimulation Study. Center for Brain and Mind, UC Davis, Davis, CA, 2010.
29. Improving Learning and Performance Using Electrical Brain Stimulation Targeted with Multimodal Neuroimaging. National Institute of Mental Health, NIH, Bethesda, MD, 2010.
30. Enhancing Cognition and Learning using Brain Stimulation. Center of Excellence in Neuroergonomics, Technology, and Cognition (CENTEC), Washington, DC, 2010.
31. Biopredictionin Stimulant Addiction. Conference on Bioprediction. Co-Sponsored by the MacArthur Foundation and the Oxford Centre for Neuroethics. Washington, DC, 2010.
32. Using Brain Imaging to Guide Brain Stimulation. Human Factors and Applied Cognition Program, Department of Psychology, George Mason University. Fairfax, VA, 2010.
33. Brain Stimulation Targeted with Neuroimaging Accelerates Perceptual Learning. Universitätsklinik für Neurologie, Universitätsklinikum Magdeburg, Magdeburg, Germany, 2010.
34. Better Learning through Brain Stimulation. Erasmus University Rotterdam, 2010.
35. Transcranial Direct Current Stimulation Targeted with Brain Imaging Greatly Accelerates Visual Learning. Abteilung Klinische Neurophysiologie, Universitätsmedizin Göttingen – Georg-August-Universität, Göttingen, Germany, 2010.
36. *Clark, V.P., Coffman, B.A., Garcia, C., Weisend, M. P., van der Merwe, A., Browning, E.S., Lane, T., Kelly, K., Mayer, A., Raybourn, E.M., Calhoun, V.D., Bikson, M., Wassermann, E.M., Phillips, J.P. Transcranial direct current stimulation (TDCS) targeted with brain imaging greatly accelerates visual learning. Oral Presentation, Neuronal Dynamics of Object and Category Perception Session #306, Society for Neuroscience, Chicago, IL, 2009.
37. *Clark, V.P., Beatty, G.K., Anderson, R., Kodituwakku, P., Phillips, J., Kiehl, K.A., Calhoun, V.D. Cingulate and insula activity predict relapse in recovering stimulant addicts. Abstract #1818, Oral Presentation, Psychiatric Disorders Session, Organization for Human Brain Mapping, San Francisco, CA, 2009.
38. Ethical Issues in Neurotechnology: Where Are We Headed? University of New Mexico Spring Research Ethics Symposium, Fostering Integrity in Research. UNM, 2009.
39. Stimulating Brain Science: The Future of Neurotechnology. Decade of the Mind Symposium, Neuroethics: Legal, and Social Issues. Potomac Institute, 2009.

40. *Clark, V.P., Beatty, G.K., Anderson, R., Kodituwakku, P., Phillips, J., Kiehl, K.A., Calhoun, V.D. FMRI activity in cingulate and insular cortex predicts relapse in recovering stimulant addicts. Oral presentation, Society for Neuroscience, Washington, DC, 2008.
41. The MIND Institute and National Defense. National Defense University, 2008.
42. Clark, V.P., Manoach, D., Gollub, R., Ho, B.C., Lim, K.O., Burge, J., Lane, T., Andreasen, N. C. A Multi-Site fMRI Study of Schizophrenia: Effects of Illness Type and Duration on Brain Function and Connectivity. International Congress on Schizophrenia Research, Colorado Springs, CO, 2007.
43. Brain Imaging at the MIND Institute. Neuroscience Day, Department of Neuroscience, UNM, 2007.
44. Brain Networks in Learning and Mental Illness. Neural Computation: Measure, Analysis & Modeling of Cellular and Network Dynamics, LANL, Santa Fe, 2007.
45. Brain Imaging Predicts Recovery from Drug Addiction. Institute of Neuroradiology, University of Zurich, Switzerland, 2006.
46. Effects of Stress on Learning and Performance. DARPA Accelerated Learning Workshop, Washington DC, 2006.
47. Attention Anticipates Abstinence in Addiction. Conference on Attention, Awareness and Action, Mind and Brain Center, UC Davis, 2006.
48. Addictions Research at the MIND Imaging Center. CASAA, UNM, 2005.
49. Neuroimaging at the MIND Institute. Colloquia, Department of Computer Science, UNM, 2005.
50. Resources, Ongoing Projects and How to Get Access to The MIND Institute. PAL Talk, Department of Psychology, UNM, 2005.
51. Challenges in Designing and Analyzing Multi-Site FMR Studies: The MIND Clinical Imaging Consortium. 10th International Congress on Schizophrenia Research, Savannah, GA, 2005.
52. Multi-Site Collaborative FMRI Studies of Auditory Target Detection in Schizophrenia, World Psychiatric Association, Florence, Italy, 2004.
53. The MIND Clinical Imaging Consortium – fMRI Studies. The MIND Institute Science Day, Santa Fe, NM, 2004
54. Low dose estrogen, fMRI, and cognitive function. Bench to Bedside: Estrogen as a Case Study Workshop. National Institute on Aging, Bethesda, MD 2004.
55. MIND Matters: An Overview of Developing Research Programs and Tools at the MIND Institute. Department of Neuroscience Seminar, UNM, 2004.
56. Understanding Cognition through Functional Brain Imaging, Second Annual Workshop on Cognitive Systems, Santa Fe, NM, 2004
57. Combining EEG and fMRI in Clinical Populations. University of Oregon, 2004.
58. Applications of Neuroimaging for Clinical Research. MIND Institute, 2004.
59. Neuroimaging: What's it Good For? Department of Cognitive Science, University of California at San Diego, 2003.
60. The Neural Mechanisms of Attention. Department of Psychology, University of New Mexico, Albuquerque, NM, 2002.
61. Predicting Relapse in Recovering Cocaine Addicts. Human Genetics Lecture Series, UConn. Health Center, 2002.
62. Using Brain Imaging to Predict Relapse in Recovering Cocaine Addicts. Department of Psychiatry, Wayne State University, Detroit, MI, 2002.
63. Studies of Attention and Perception using Functional Brain Imaging. Department of Psychology, Tufts University, Medford, MA, 2002.
64. Higher-Order Responses in Event-Related fMRI. Satellite Symposium on Brain Imaging Methods and Analysis Techniques. Seventh Annual Meeting of the Organization for Human Brain Mapping, Brighton, U.K., 2001.
65. FMRI Studies of Multimodal Selective Attention. Yale NMR Research Group fMRI Talk, Yale University School of Medicine, New Haven, CT, 2001.
66. FMRI Studies of Attention and Perception. University of New Mexico, 2001.

67. Applications of Multiple Regression in fMRI: Event-Related fMRI. Satellite Symposium on Brain Imaging Methods and Analysis Techniques, Sixth Annual Meeting of the Organization for Human Brain Mapping, San Antonio, TX, 2000.
68. Event-Related fMRI using P300 ERP Tasks. Yale NMR Research Group fMRI Talk, Yale University School of Medicine, New Haven, CT, 2000.
69. ERP Tasks Examined using Event-Related fMRI. Brainmap Talk, NMR Research Center, Mass General Hospital, Charleston, MA, 2000.
70. ERP Tasks using fMRI: What More Can It Tell Us? Center for the Neural Basis of Cognition, Mellon Institute, CMU, 2000.
71. Event-Related fMRI Designs. Department of Psychology, Dartmouth University, Hannover, NH, 2000.
72. Neuroimaging in Cocaine Dependence and Relapse. National Institute of Drug Abuse, NIH, Bethesda, MD, 1999.
73. Functional MRI Studies of Attention and Vigilance. Chinese University of Hong Kong, Hong Kong, 1999.
74. Event-Related Paradigms in Functional MRI. Haskins Institute. New Haven, CT, 1999.
75. Mapping the Brain with MRI. Department of Psychology, Tufts University, Boston, MA, 1999.
76. NeuroImaging of Attention. Brain and Behavior Research Rounds, IOL, Hartford, CT, 1998.
77. Functional MRI Studies of Attention and Memory. Department of Psychology, University of Connecticut, Storrs, CT, 1998.
78. Functional MRI Studies of Attention and Cognition. Department of Psychiatry, University of Connecticut Health Center, Farmington, CT, 1997.
79. Experimental Design for the Integration of fMRI and EEG data. FMRI Visiting Fellowship Program, MGH NMR Center, Harvard University, 1997.
80. Functional MRI Studies of Visual Attention and Perception. Salk Institute, La Jolla, CA, 1997.
81. *Clark, V.P., Maisog, J.Ma., Keil, K., Ungerleider, L., and Haxby, J.V. Visual Area Topography as Revealed by fMRI vs. PET. Presented at the Second International Conference on Functional Mapping of the Human Brain. NeuroImage, 3(3):S1, Boston, MA, 1996.
82. Comparing PET to FMRI findings in Visual Perception. Brain Map 1996: Conference on Human Brain Mapping and Modeling, San Antonio, TX, 1996.
83. Studies of Visual Selective Attention and Object Recognition using Functional MRI. Department of Psychology, University of Pittsburgh, 1996.
84. Studies of Selective Attention using fMRI. Georgetown Institute for Cognitive and Computational Studies, Georgetown University, 1995.
85. Studies of Selective Attention using Evoked Potentials and fMRI. Center for Behavioral Neuroscience, SUNY at Stony Brook, 1995.
86. Mechanisms of Visual Attention studied with fMRI. Center for Neuroscience, University of California, Davis, 1994.
87. Mapping the Human Brain with MRI. Department of Psychology, Stanford University, 1994.
88. *Clark, V.P., Courchesne, E., Grafe, M. In-vivo myeloarchitectonic analysis of human occipital and parietal cortex using magnetic resonance imaging. International Conference on Cognitive Neuroscience, Jerusalem, Israel, 5:13, 1992.

Contributed (un-refereed) Presentations at Professional Meetings:

1. Witkiewitz, K., Kirouac, M., Frohe, T., Armenta, M.L., McCallion, E.L., Roos, C., O'Sickey, A.J., Brown, D., Hunter, M.A., Coffman, B., Clark, V.P. Mindfulness and Transcranial Direct Current Stimulation as an Intervention for Tobacco Dependence: A Pilot Study. (March, 2015). Collaborative Perspectives on Addiction conference, Baltimore, MD.
2. Jon M. Houck, Jason Long, Jessica Turner, Jeffrey D. Lewine, Charlotte Chaze, Vincent P. Clark, Vince Calhoun,

Robert J. Thoma. MEG Analysis of Network Oscillatory Activity During The Transition into Auditory Verbal Hallucinations (AVH-on) and Out of (AVH-off) Transitional Periods. International Congress on Schizophrenia Research. 2015.

3. Kevin Wilson, Vincent P. Clark. Transcranial direct current stimulation (tDCS) improves spelling ability. Poster presented at UNM Neuroscience Day, 2015.
4. Petropoulos, H., Long, J., Chaze, C., Turner, J., Clark, V., Calhoun, V.D. and Thoma, R.J. **(**2015). 1H-MRS Glutamine and Inositol level predicts the severity of Auditory Verbal Hallucinations. Poster presented at the 2015 UNM BBI Neuroscience Day. (2015). UNMHSC Domenici Hall, Albuquerque, NM.
5. Charlotte Chaze, Vincent P. Clark, Jessica Turner, Rose Bigelow, Jason Long, Vince Calhoun, Robert J. Thoma. Treatment of auditory verbal hallucinations in schizophrenia using tDCS. Poster presented at UNM Neuroscience Day, 2015.
6. Charlotte Chaze, Robert J. Thoma, Rose Bigelow, Vincent P. Clark, Juan Bustillo, Vince Calhoun, Jessica Turner. Neural Networks Underlying Auditory Verbal Hallucinations in Schizophrenia. Poster presented at UNM Neuroscience Day, 2015.
7. Michael A. Hunter, Vincent P. Clark, Vincent D. Calhoun, Hao He, Ben Yackley and Terran Lane. Dynamic causal modeling of selective attention predicts relapse in patients recovering from addiction. 43rd Annual Meeting of the International Neuropsychological Society (INS), 2015, Denver, CO.
8. Charlotte Chaze, Vincent P. Clark, Jessica Turner, Michael Hunter, Rose Bigelow, Jason Long, Jeffrey D Lewine, Vince Calhoun, Robert J Thoma. An fMRI investigation of tDCS-induced changes in cortical function during auditory verbal hallucinations. *Schizophrenia Bulletin,* 41(1):S220, #2119147. ICOSR 2015, Colorado Springs, CO.
9. Houck, J., Lewine, J.D., Turner, J., Clark, V., Bustillo, J., Calhoun, V.D., and Thoma, R.J. (2015). Time course of auditory verbal hallucination networks in schizophrenia. *Schizophrenia Bulletin,* 41(1):S79-S80. Poster Presented at the 2015 annual meeting of the International Congress on Schizophrenia Research (ICOSR). Colorado Springs, CO.
10. M.A. Hunter, V.P. Clark, V.D. Calhoun, Y. Chen, J.C. Edgar, M.X. Huang, B. Howell, and J.M. Cañive. Intrinsic network connectivity differentially predicts components of attention in patients with schizophrenia and bipolar disorder. Presented at The 4th Biennial Resting-state / Brain Connectivity Conference, MIT, Cambridge, M.A., 2014.
11. Hunter, M.A. and Clark, V.P. The potential synergistic effects of strategy-based cognitive training & brain stimulation: A review. 2014. 17th Cognitive Remediation Conference, New York, NY.
12. Brian A. Coffman, Michael A. Hunter, Aaron P. Jones, Heather A. Saxon, Krista Kolodjeski, Bryce Lockmiller, Omar Khan, Tristan Collar, Julia M. Stephen, & Vincent P. Clark. Using independent components analysis (ICA) to remove artifacts associated with transcranial direct current stimulation (tDCS) from electroencephalography (EEG) data: A comparison of ICA algorithms. NYC Neuromodulation 2013 Conference, New York, NY. Winner, Best Poster Prize.
13. Mike Trumbo, Brian Coffman, Vincent P. Clark The effect of transcranial direct current stimulation on the attention network task (ANT): Contextualizing prior research. NYC Neuromodulation 2013 Conference, New York, NY.
14. Michael A. Hunter, Brian Coffman, Mike Trumbo, Aaron Jones, Charles Gasparovic, Vincent P. Clark. Modulation of large-scale network connectivity and glutamatergic concentrations by transcranial stimulation: A preliminary multimodal imaging study. NYC Neuromodulation 2013 Conference, New York, NY.
15. Aaron P. Jones, Michael Trumbo, Brian A. Coffman, Michael A. Hunter, Alexander David, Marom Bikson, Vincent P. Clark. Far filed effects of cortical tDCS in the cerebellum. NYC Neuromodulation 2013 Conference, New York, NY.
16. V. R. Steele, B. C. Fink, J. M. Maurer, M. R. Arabshirani, A. Sidz, V. D. Calhoun, V. P. Clark, K. A. Kiehl. Event-related potential measures of incorrect responses predict completion of substance abuse treatment. Oral Session #119, Addiction Treatment and Genetics: Translational Studies. Society for Neuroscience, San Diego, CA, 2013. Selected for "Hot Topics" book and the Neuroscience 2013's online press room.
17. Randy Gollub, Jody Shoemaker, Margaret King, Tonya White, Stefan Ehrlich, Scott Sponheim, Vincent Clark,

Jessica Turner, Vince Calhoun. Shared repository of multi-modal, multi-site brain image data from a clinical study of schizophrenia. Organization for Human Brain Mapping, Seattle, WA, 2013.

18. Michael Hunter, Vincent Clark, Vince Calhoun, Jose Canive. Relationships between functional network connectivity and measures of attention in schizophrenia. Organization for Human Brain Mapping, Seattle, WA, 2013.
19. Coffman, B. A.; Garcia, C. M.; Weisend, M. P.; Kelly, K.; Flores, R. A.; Clark, V. P. Differences in spectrograms of oscillatory MEG activity between hidden target and nontarget stimuli. Society for Neuroscience, 2012.
20. Sergey Plis, Jing Sui, Terran Lane, Sushmita Roy, Vincent P. Clark, Vamsi K. Potluru, Andrew Michael, Michael Weisend, Vince Calhoun. Capturing high-order interactions in neuroimaging data. Selected for Oral Session Presentation, Modeling and Analysis Methods. Organization for Human Brain Mapping, Beijing, China, 2012.
21. *V.P. Clark, B. A. Coffman, M. C. Trumbo, C. Gasparovic. Transcranial direct current stimulation (TDCS) produces localized and specific increases in glutamate/glutamine and NAA. #413.1 Society for Neuroscience, 2010.
22. L. Bullard, A. J. Van Der Merwe, E. S. Browning, V. P. Clark, B. A. Coffman, R. A. Flores, C. M. Garcia, E. B. Kimball, K. M. Paulson, D. Puffer, E. M. Raybourn, A. A. Vakhtin, E. M. Wassermann, C. L. Wootton, M. P. Weisend. The effect of TDCS on performance and fatigue during a threat detection task. Society for Neuroscience, 2010.
23. C. L. Wootton, E. S. Browning, V. P. Clark, B. A. Coffman, R. A. Flores, C. M. Garcia, E. B. Kimball, A. J. Van Der Merwe, K. Paulson, L. E. Petree, D. Puffer, E. Raybourn, A. A. Vakhtin, E. Wassermann, M. P. Weisend. Learning effects of anodal transcranial direct current stimulation (TDCS) differ between electrode placements. Society for Neuroscience, 2010.
24. S. M. Plis, E. Damaraju, C. L. Wootton, L. M. Bullard, V. P. Clark, B. A. Coffman, E. B. Kimball, A. J. Van Der Merwe, K. Paulson, A. Vakhtin, D. Puffer, R. Barrow, C. Garcia, M. P. Weisend. Effective connectivity analysis of fMRI and MEG data collected under identical paradigms. Society for Neuroscience, 2010.
25. Stone, D.B., Urrea, L., Aine, C., Clark, V.P., Stephen, J.M. Alterations in auditory processing and multisensory integration in schizophrenic patients revealed using EEG. Center for Biomedical Research Excellence Meeting, NCRR, NIH, Washington DC, 2010.
26. Bullard, L. Browning, E., Clark, V.P., Coffman, B., Jung, R., Kimball, E., van der Merwe, A., Wootton, C., Weisend, M. Transcranial direct current stimulation's effect on novice versus experienced learning. Organization for Human Brain Mapping, Barcelona, Spain, 2010.
27. C.M. Garcia, B.A. Coffman, V.P. Clark, M. P. Weisend, R. Barrow, A. van der Merwe, E.S. Browning, D. Puffer, E.M. Rayborn, V.D Calhoun, E.M. Wassermann, J.P. Phillips. Sensation of TDCS as a function of current density and electrode size. 7th International Conference on Biomagnetism, Dubrovnik, Croatia 2010.
28. B.A. Coffman, V.P. Clark, C. Garcia, M. P. Weisend, R. Barrow, A. van der Merwe, E.S. Browning, D. Puffer, E.M. Rayborn, V.D Calhoun, E.M. Wassermann, J.P. Phillips, R. Jung. TDCS accelerated learning of covert threat detection is influenced by current strength and stimuli familiarity vs. novelty. 7th International Conference on Biomagnetism, Dubrovnik, Croatia 2010.
29. Coffman, B.A., Clark, V.P., Garcia, C., Weisend, M. P., Barrow, R., van der Merwe, A., Browning, E.S., Mayer, A.R., Raybourn, E.M., Kelly, K., Puffer, D., Calhoun, V.D., Wassermann, E.M., Phillips, J.P. Changes in brain networks with learning of covert threat cues. Poster Presentation, High Level Visual Perception and Brain Networks Session 380, Society for Neuroscience, 2009
30. Ehrlich, S, Morrow, EE, Wallace, SR, Naylor, MG, Bockholt, HJ, Holt, DJ, Lundquist, AP, Yendiki, A, Roffman, JL, Ho, BC, White, T, Manoach, DS, Clark, VP, Calhoun, VD, Gollub, RL. The COMT Val158Met Polymorphism and Temporal Lobe Volumetry in Patients with Schizophrenia and Healthy Adults. Abstract #539, Oral Presentation, Genetics Session, Organization for Human Brain Mapping, San Francisco, CA, 2009.
31. Juárez, M, White, T, Pearlson, GD, Bustillo, J, Lauriello, J, Ho, BC, Bockholt, HJ, Clark, VP, Gollub, R, Magnotta, V, Machado, G, Calhoun, VD. Functional connectivity differences in first episode and chronic schizophrenia patients during an auditory sensorimotor task revealed by independent component analysis of a large multisite study. Abstract #2322, Organization for Human Brain Mapping, San Francisco, CA, 2009.
32. Michael, AM, Baum, SA, Segall, JM, Bockholt, HJ, Clark, VP, Jung, RE, Gollub, RL, Roffman, JL, Ho, BC,

Andreasen, NC, Lim, KO, White, TJ, Schulz, SC, Calhoun, VD. Inter-Voxel Cross-Correlation Reveals Aberrantly Low Structural-Functional Linkage in Schizophrenia in a Multi-Site Study. Abstract #337, Organization for Human Brain Mapping, San Francisco, CA, 2009.

33. White, T, Leyba, L, Ho, BC, Clark, VP, Calhoun, VD, Wallace, S, Bockholt, HJ, Gollub, RL, Andreasen, NC, Schulz, SC, Magnotta, VA, Lim, KO. Cigarette Smoking Disrupts White Matter Integrity in Patients with Schizophrenia. Abstract #1020, Organization for Human Brain Mapping, San Francisco, CA, 2009.
34. Lane T, Plis S, Clark VP, Anderson B, Oyen D. Bayesian Analysis of Neural-Behavioral Interactions in Mental Illness. Collaborative Research in Computational Neuroscience, 2008.
35. *Clark, V.P., Beatty, G.K., Anderson, R., Kodituwakku, P., Phillips, J., Kiehl, K.A., Calhoun, V.D. FMRI activity in cingulate and insular cortex predicts relapse in recovering stimulant addicts. Slide presentation, Society for Neuroscience, 2008.
36. Scully, M.S. Anderson, B., Lane, T., Bockholt, H.J., Clark, V. P., Calhoun, V., Gollub, R., Ho, B., Lauriello, J., White, T., Jung, R. A dynamic Bayesian network analysis of functional network differences during the auditory oddball task, related to general intelligence. Poster presentation, Society for Neuroscience, 2008.
37. Arfai, N., Wilson, M., Clark, V. P., Wallace, J. A. Accelerating recovery of behavioral & cognitive functions via single intracerebral injection of various neurotrophic factors after somatosensory contusion in adult rats. Poster presentation, Society for Neuroscience, 2008.
38. M. A. Monnig, A. Caprihan, D. Ruhl, P. Lysne, C. Gasparovic, V. Clark, R. A. Yeo, M. Bogenschutz, & R. J. Thoma . Diffusion tensor imaging reveals callosal white matter abnormality in alcohol dependence and recovery. Research Society on Alcoholism, 2008.
39. Chobok Kim, Doerte Spring, James K. Kroger, Vince Calhoun, Vince Clark. Exogenously cued attention switching recruits frontal pole: An fMRI study. Cognitive Neuroscience Society, 2008.
40. James K. Kroger, Doerte Spring, Chobok Kim, Vince Clark, Vince Calhoun. Double dissociations between lateral and medial frontopolar cortex for maintenance and manipulation of integrated information: An fMRI study. Cognitive Neuroscience Society, 2008.
41. J. Lauriello, J. Bustillo. S. C. Schulz, N. Andreasen, R. Gollub, B. C. Ho, V.P. Clark, J. Bockholt, K. O. Lim. Overview of the MIND Imaging Consortium, International Congress on Schizophrenia Research, 2007.
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48. *Clark, V.P., Anderson, R.E., England, R., Beatty, G., DiPasquale, T., Posse, S., Kodituwakku, P., Rosen, A., Phillips, J.P., Blanco, R., Hicks, P., Bogenschutz, M. A multimodal imaging study of relapse in stimulant dependence. Society for Cognitive Neuroscience, San Francisco, 2006.
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novelty oddball task in schizophrenia: Effects of illness duration. Society for Neuroscience Abstracts, Washington, DC, 2005.

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80. Beresten, K., Clark, V.P. FMRI studies of face processing using an asymmetrical birdcage coil. Society of Magnetic Resonance, 1995, 3:857.
81. Bavelier, D., Corina, D., Clark, V.P., Dale, A., Jezzard, P., Prinster, A., Karni, A., Lalwani, A., Rauschecker, J., Turner, R., Neville, H. Sentence reading: A 4T fMRI study of cortical regions active during an English reading task. Society for Neuroscience Abstracts, 1994 20: 352.
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87. *Clark, V.P., Fan, S., Hillyard, S.A. Stimulus position effects on the visually evoked potential: Analysis and localization with respect to brain morphology. International Brain Research Organization 3rd World Congress, 1991, 3:400.
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and localization with MRI. Society for Neuroscience Abstracts, 1991, 17:656.

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Research Funding:

Currently In Progress:

TDCS and Cognitive Retraining to Augment Pharmacotherapy for the Treatment of Nicotine Dependence, R21DA037546
Eric Claus, PI
3/1/15-2/28/17, $430,000
NIDA, NIH
Role: Co-Investigator

CC*IIE Networking Infrastructure: Network Expansion to Support Data Intensive Research and Computation at the University of New Mexico,
Gilbert Gonzales, PI
9/1/2014-8/31/2015, $498,620
NSF
Role: Co-Investigator

COBRE: Multimodal imaging of neuropsychiatric disorders (MIND), P20GM103472
Vince Calhoun, PI
07/31/2013 – 06/30/2018, $12,367,560
NIGMS, NIH
Role: Mentor

Modifying Alcohol Approach Motivations with tDCS and Cognitive Retraining, R21AA021201
Eric Claus, PI
NIAAA, NIH
01/01/13-12/31/15, $507,516
Role: Co-Investigator

Noninvasive Neural Stimulation Technology, R44NS080632
Timothy A. Wagner, PI, Highland Instruments, Cambridge, MA.
NINDS, NIH
2012-2016, $2,973,728
Role: Consultant

Completed:

Fast Network Inference Methods for Connectome Analysis, R21MH097201
Terran Lane, PI
NIMH, NIH
09/18/12-07/31/15, $395,914
Role: Co-Investigator

Multifaceted Intervention for Robust, ARP-Focused, Customized Learning and Enhancement (MIRACLE), 2014-131270006
Vincent P. Clark, PI

01/06/14-3/31/15, $744,000
IARPA
Role: Principal Investigator

Efficacy of Intranasal Insulin in Relieving Symptoms of Tobacco Abstinence Syndrome, R03DA036054
Ajna Hamidovic, PI
04/01/14-03/31/15, $75,500
NIDA, NIH
Role: Co-Investigator

The Neurobiology and Developmental Trajectories in Children at Risk for Severe Psychopathology, 40-00812-98-11021
Tonya White, PI, Erasmus Medical Center, Rotterdam, Netherlands.
Open Programma Gezondheidsonderzoek ZonMW TOP Grant, Netherlands
2011-2015, €675,000
Role: Co-Investigator

Mindfulness Based Relapse Prevention and Brain Stimulation as an Intervention for Nicotine Dependence, Grice Foundation
Katie Witkiewitz, PI
01/01/14-01/01/15, $3000
Grice Foundation
Role: Co-Investigator

Transcranial Direct Current Stimulation For Cognitive Enhancement in FASD, F31AA022851.
Brian Coffman, PI
12/1/13-11/30/14, $29,963
NIAAA, NIH
Role: Mentor

Effects of Orthotics on Brain Function
Vincent P. Clark, PI
National Spasmodic Torticollis Association
2010-2014, $23,000
Role: Principal Investigator

Socio-Moral Processing in Psychopathy and Substance Abuse, R01DA026505
Kent Kiehl, PI
NIDA, NIH
2009-2014, $3,808,796
Role: Co-Investigator

The Cognitive Neuroscience of Female Psychopathy. R01MH085010
Kent Kiehl, PI
NIMH, NIH
2009-2014, $3,916,112
Role: Co-Investigator

Therapeutic Actions of Oral Orthotics
Vincent P. Clark, PI
Grice Foundation
2012-2013, $3,000
Role: Principal Investigator

Alcohol Research Training in Neurosciences, T32AA014127

C. Fernando Valenzuela, PI
NIAAA, NIH
2012-2014, $1,043,896
Role: Mentor for Brian A. Coffman.

Neural Mechanisms of Schizophrenia: Use of Multiple Neuroimaging Tools to Examine Dysfunctions in Neural Integration (COBRE), P20RR021938
Vince Calhoun, PI
NCRR, NIH
2009-2013, $11,640,511
Role: Mentor

Clinical Neuroscience Core Renovation for Psychology at University of New Mexico, G20RR030839
Jane Smith, PI
NCRR, NIH
2010-2015, $4,964,723
Role: Center Director

Brain Stimulation to Accelerate Learning of Threat Detection, Phase II.
Vincent P. Clark and Mike Weisend, PIs
DARPA, DOD
2009-2011 $3,804,403
Role: Principal Investigator

Mind Research Network
John Rasure, PI
DOE
2008-2009, $11,400,000
Role: Scientific Director

Brain Stimulation to Accelerate Learning of Threat Detection, Phase I, NBCHC070103
Vincent P. Clark, PI
DARPA, DOD
2007-2009, $1,999,692
Role: Principal Investigator

Mind Research Network.
John Rasure, PI
DOE
2007-2008, $7,000,000
Role: Scientific Director

Multimodal Imaging of the Sensory Gating Deficit in Chronic Cocaine Abusers, R03DA022435
Andrew Mayer, PI
NIDA, NIH
2007-2008, $252,953
Role: Co-Investigator

Brain and Behavioral Impairment in Alcohol Dependence and Schizophrenia, K23AA016544
Robert Thoma, PI
NIAAA, NIH
2006-2011, $556,944
Role: Mentor

The Functional Role of Frontopolar Cortex: Dynamics of Frontopolar Recruitment

James Kroger, PI, New Mexico State University, Las Cruces, NM.
NIGMS, NIH.
2006-2008, $320,352.
Role: Consultant

fMRI Analysis of the Decision Making Processes of Human Subjects
Vincent P. Clark, PI
Sandia National Laboratories, LDRD Program.
2006, $63,957
Role: Principal Investigator

The Effects of Angry and Fearful Emotion States on Decision-Making.
Vincent P. Clark, PI
Sandia National Laboratories, LDRD Program
2006, $85,767
Role: Principal Investigator

Bayesian Analysis of Neural-Behavioral Interactions in Mental Illness, R01MH076282
Terran Lane, PI
CRCNS, NIMH, NIH
2005-2008, $1,012,500
Role: Co-Investigator

Neural Function in Cocaine Dependence and Relapse. Subproject 8353 in University of 5M01RR000997, New Mexico - General Clinical Research Center
Vincent P. Clark, PI
NCRR, NIH
2005-2007, $169,305
Role: Principal Investigator

fMRI Imaging of Learning Strategies. Sub-project in Southwest Science of Learning Center Catalyst Grant, SBE 0350360
Vincent P. Clark, PI
NSF
2004-2006, $275,000
Role: Co-Principal Investigator with Mark McDaniel

Interactive Real-time fMRI at High Fields with Automatic Classification of Activation Patterns, R01EB002618
Stefan Posse, PI
NIBIB, NIH
2003-2006, $1,077,563
Role: Co-Investigator

Neural Function in Cocaine Dependence and Relapse, R01 DA012852
Vincent Clark, PI
NIDA, NIH
2001-2007, $1,425,000
Role: Principal Investigator

Event-Related Functional MRI of Adult ADHD
Leighton Huey, PI
Donaghue Medical Research Foundation
2002, $57,949.
Role: Co-Investigator

Functional MRI of Attention and Working Memory in Normal Aging and Alzheimer's Disease
Brett Steinberg, PI
2001, $100,000
UConn Research Foundation
Role: Co-Investigator

FMRI of Prefrontal Cortex Function in Pathological Gamblers
Vincent P. Clark, PI
National Center for Responsible Gaming
2000-2004, $172,056
Role: Principal Investigator

FMRI Responses to the Oddball Task and Risk Factors for Alcoholism
Vincent P. Clark, PI
UConn Alcohol Research Center and UConn General Clinical Research Center
1999-2002, $60,000
Role: Principal Investigator

Neural Mechanisms of Attention
Vincent P. Clark, PI
Research Initiation and Support Enhancement Award
University of Connecticut
1998-1999 $120,000
Role: Principal Investigator

Teaching

Doctoral Advisement:

Current:

Aaron Jones, B.S., 2013-Present.
Michael Hunter, M.S., Awarded Ford Foundation Graduate Fellowship, 2012, and National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) Fellowship, 2013. MS Thesis Title: Large-scale intrinsic functional connectivity and attention in schizophrenia, 2013. PhD expected 2016.
Michael Trumbo, M.S., Awarded Arts and Sciences Merit-Based Graduate Fellowship. 2011, MS Thesis Title: Investigating the Effects of TDCS on Attentional Processes. PhD expected 2015.

Graduated:

Brian Coffman, PhD, Defended 2014. MS Thesis Title: Investigation of the Context Dependent Learning Effects of TDCS using mock MRI. MS awarded with distinction. Comprehensive examination 2012, comprehensive examination completed with distinction. PhD Title: Increasing Your Brain Potential: Transcranial Direct Current Stimulation for Enhancement of Behavior and Event-Related Potentials in Tests Of Attention and Impulsivity. PhD awarded with distinction. Recipient, 2014 Benjamin Franklin Haught Memorial Research Lecture Award, “Taking Control of Cognitive Control with Brain Stimulation”. Recipient, Best Poster Award, NYC Neuromodualtion Conference, 2013. Currently Post-Doctoral Associate in the Clinical Neurophysiology Research Laboratory, Department of Psychiatry, University of Pittsburgh School of Medicine, Pittsburgh, PA (mentor: Dean Salisbury).
Nariman Arfai, Ph.D.; Defended 2010; Dissertation Title: Effect of the Rerouting Rostral Migratory Stream on Recovery of Cognitive Function after Medial Frontal Aspiration in Rat. Currentl

Gregory Beatty, B.S., Defended MS 2008; MS Thesis Title: Response Time Variability, Functional Magnetic Resonance Imaging Signal Changes, and Event-Related Potential Amplitudes During Cognitive Interference in Stimulant Dependence.

Leonard Leyba, M.D. PhD.; Defended PhD in Neurosciences 2007; Dissertation Title: Cigarette Smoking and fMRI.

Rebecca England, PhD, 2005, MS Thesis Title: How Do Personality Traits Mediate Emotional Processing in an Abstinent Stimulant Addicted Sample? An fMRI Study.

Joseph Audie, M.S. in Biomedical Engineering, University of Connecticut, 6/2001, (MS Dissertation Chair. Currently Assistant Professor of Biochemistry and Computational Biophysics, Sacred Heart University)

Elaine Goff, MS, 2000, MS Thesis Title: fMRI of Face Attention and Perception.

Other Advisement:

Jacki Janowich, B.S. Graduate Program in Psychology, Division of Cognitive Neuroimaging. MS Thesis Committee 2015-Present. (Thesis Title: Distinct neuro-cognitive instantiations of proactive and reactive control: A double-dissociation in EEG.)

John Pinner, B.S. Graduate Program in Psychology, Division of Cognitive Neuroimaging. MS Thesis Committee 2014-2015 (Thesis Title: Using Electroencephalography to Assess Risky Behavior in Varying Levels of Conflict).

Hao He, MS. Graduate Program in Computer Science. Dissertation Committee 2014-Present. (Dissertation Title: Graph Analysis and Multimodal Fusion with Functional Connectivity: Application to Differentiate Patients with Mental Disorders).

Samantha Fede, B.S. Graduate Program in Psychology, Division of Cognitive Neuroimaging. MS Thesis Committee 2013-2015. (Thesis Title: Examining the Neural Basis of Moral Decision Making in Incarcerated Adult Males: A Functional Magnetic Resonance Imaging Study)

Eduardo Castro, PhD. Graduate Program in Computer Engineering. PhD Dissertation Committee 2013. (Dissertation Title: Application of Multiple Kernel Learning on Brain Imaging for Mental Illness Characterization).

Danielle Rudder, MS. Graduate Program in Psychology, Division of Cognitive Neuroimaging. MS Thesis Committee 2011-2013. (Thesis Title: Transcranial Direct Current Stimulation for the Reduction of Alcohol Craving).

Zhen Yang, PhD, Graduate Program in Psychology, Division of Behavioral Neuroscience, Comprehensive Examination Committee 2009-2010; PhD Dissertation Committee 2010-2012. (Dissertation Title: A fMRI Study of Auditory Orienting and Inhibition of Return in Pediatric Mild Traumatic Brain Injury.) Currently: Postdoc, Child Mind Institute, NY, NY.

David Stone, M.S., Graduate Program in Psychology, Division of Cognitive Neuroscience, Comprehensive Examination Committee, 2011. PhD Dissertation Committee, 2011-2012. (Dissertation Title: Topological Dynamics of STDP-Driven Networks of Model Neurons).

Lai Xu, Graduate Program in Electrical and Computer Engineering, PhD Dissertation Committee member, 2010-2011 (Dissertation Title: Independent Component Analysis for Structural Magnetic Resonance Imaging).

Michelle Juárez, Graduate Program in Electrical and Computer Engineering, MS Thesis Committee 2010-2011, (MS Thesis Title: On The Use of Independent Component Analysis & Functional Network Connectivity Analysis: Evaluation on Two Distinct Large-Scale Psychopathology Studies).

Per Lysne, MS Thesis Committee, 2008-2009. (MS Thesis Title: An MEG Investigation of the Differential Responsivity of the Human Calcarine Fissure and Fusiform Gyrus to the Emotion of Viewed Faces).

Jon Houck, B.S. Graduate Program in Psychology, M.S. Committee, 2004-2006. (MS Thesis Title: Cerebellar Activation in a Mental Rotation Task). Currently postdoc, Mind Research Network.

Paul Lesnik, PhD, Graduate Program in Psychology, PhD Dissertation Committee Member 2005-2007. (Dissertation Title: A Developmental Event-Related fMRI Study of Inhibition using a Go/No-Go Task.) Currently Instructor, UNM.

Masato Nakazawa, Ph.D. Graduate Program in Psychology, MS. Committee Member 2004-2006. Currently

Statistician, Ohio University.

Katherine Akers, Ph.D. Graduate Program in Psychology, Division of Behavioral Neuroscience. 2003-2005. MS committee. (Currently eScience Librarian and CLIR Fellow, University of Michigan).

Joel Bish, Ph.D. 2003 Graduate Program in Psychology, Division of Cognitive Neuroscience. Dissertation committee. Currently Assistant Professor, Dept. Psychology, Ursinus College.

Tim Martin, Ph.D. 2003-2005. Graduate Program in Psycholog, Division of Cognitive Neuroscience. (Dissertation committee member). Currently Assistant Professor, Dept. Psychology, Kennesaw State University.

Jennifer Jones, M.S. 2004 Graduate Program in Psychology, Division of Behavioral Neuroscience. Comprehensive examination committee.

Bethany Reeb, PhD. 2003-2005. Graduate Program in Psychology, Division of Behavioral Neuroscience. Comprehensive examination committee. (Currently Assistant Professor, Dept. Psychology, Florida International University).

Eric M Jackson, Graduate Program in Psychology, Division of Cognitive Neuroscience, 2004-2006 (MS Committee Member, Title: Cerebellar Activation During Encoding for Object and Spatial Working Memory Tasks). Currently Instructor, UNM.

John Burge, Ph.D., Graduate Program in Computer Science 2004-2007 (Dissertation Committee Member, Dissertation Title: Learning Bayesian Networks From Hierarchically Related Data with a Neuroimaging Application) Currently Software Engineer, Google Corporation).

Sanja Kovacevic, PhD, Graduate Program in Neuroscience, 2002-2006 (Dissertation Committee Member, Thesis Title: Multimodal Imaging of Visual Feature Integration). Currently Post-doc in Department of Radiology at UC San Diego.

Michael Stevens, Ph.D., Post-Doc, 2000-2002, Alcohol Research Center Training Grant, Communications Disorders Training Grant, UCHC. (Currently Adjunct Associate Professor of Psychiatry, Yale University; Director, Clinical Neuroscience and Development Laboratory at Olin Neuropsychiatry Research Center; Director, Child & Adolescent Research, The Institute of Living).

Jennie Wakefield, Ph.D., Post-Doc, 1999-2002, Communications Disorders Training Grant, UCHC (Currently Statistician for CSS Dynamac / US EPA)

Elizabeth Chua, B.S. in Psychology with Honors, Trinity College, 5/2001. (Currently Assistant Professor, Department of Psychology at Brooklyn College, City University of New York)

Erik Anderson, B.S. in Psychology with Honors, Trinity College, 5/2000.

Sean Fannon, B.S. in Psychology, Catholic University, 5/1997. (Currently Assistant Professor of Psychology, Folsom College, CA).

Bachelor's Honors Advisement:

Tristan Collar, 2014-Present.

Jon Kevin Wilson, 2013-Present. Honors in Psychology conferred 2014. Title: "Using Trans-Cranial Direct Current Stimulation to Enhance Spelling Ability." Currently enrolled in UNM Psychology graduate program.

Undergraduate Student Mentoring:

Mikaela Lea Armenta, 2014-Present. Ronald E. McNair Post-Baccalaureate Achievement & Research Opportunity Program.

Ashley Racheal Wegele, 2011-2014. Ronald E. McNair Post-Baccalaureate Achievement & Research Opportunity Program.

Jason Long, B.S., 2008-2011, Ronald E. McNair Post-Baccalaureate Achievement & Research Opportunity Program.

Classroom Teaching:

2015, Winter Intersession, Psychology 240, Brain and Behavior (online, planned)
2015, Summer, Psychology 240, Brain and Behavior (online)
2015, Spring, Psychology 240, Brain and Behavior (online)
2014, Winter Intersession, Psychology 240, Brain and Behavior (online)
2014, Fall, Psychology 240, Brain and Behavior (online)
2014, Spring, Psychology 240, Brain and Behavior (online, new prep)
2013, Fall; Psychology 450/650L, Introduction to EEG Lab (new prep)
2013, Spring; Psychology 450/650, Clinical Neuroimaging
2012, Fall; Psychology 450/650, Introduction to the Clinical Neuroscience Center Laboratory (new prep)
2012, Fall; Psychology 450/650, EEG and MEG Analysis Laboratory, 1 Lecture
2011 Fall and 2012 Spring; Sabbatical
2011, Spring; Psychology 650, Advanced Topics in Neuroimaging
2011, Spring; CS 491/591 and ECE 595, Cognitive and Computational Neuroscience, 1 Lecture
2010, Fall; Psychology 641, Seminar in Cognition, Brain and Behavior
2010, Fall; Psych 391: Junior Honors Seminar, 1 Lecture
2010, Fall; ECE595: Cognitive Radios and Cognitive Radio Networks, 1 Lecture
2010, Spring; Psychology 650, Introduction to Functional Neuroimaging (new prep)
2009, Fall; Psychology 641, Seminar in Cognition, Brain and Behavior
2008, Fall; Psychology 641, Seminar in Cognition, Brain and Behavior
2008, Spring; Master's of Science in Clinical/Translational Research (MSCR), Current and Emerging Technology; 1 lecture.
2007, Fall; Psychology 641, Seminar in Cognition, Brain and Behavior
2006, Spring; CS595, Learning from Cognitive, Computation, and Neuroscience, 1 Lecture
2005, Fall; Psychology 240, Brain and Behavior
Psychology 450/650 Sec 5, Clinical Neuroimaging (new prep)
2005, Spring; Psychology 240, Brain and Behavior
2004, Fall; Psychology 450/650 Sec 5, Magnetic Resonance Imaging and Spectroscopy: From Methods to Functional Brain Imaging (new prep)
2004, Fall; Psychology Research Seminar, 1 Lecture
2004, Summer; Pre-medical Summer School Lecture Series, UNMHSC Medical School, 1 lecture.
2004, Spring; Psychology 240, Brain and Behavior (new prep)
2003, Fall; Psychology 650, Applications of Functional Neuroimaging (new prep)
2003, Fall; Psychology 505, Research Seminar, 1 Lecture
2003, Spring; Psychology 450/650, Sec 6, Functional Neuroimaging (new prep)
2002; Seminar on fMRI and EEG Data Acquisition and Analysis Techniques (new prep)
2002; Psychiatry Post-Graduate Year III lectures (2 lectures)
2002; Psychiatry Post-Graduate Year IV lectures (2 lectures)
2002; Systems Neuroscience (Meds 371; 1 session)
2001; Seminars on fMRI Data Acquisition and Analysis Techniques (6 sessions)
2001; Psychiatry Post-Graduate Year I (1 lecture)
2001; Neuroimaging Immersion (5 hours / week, 1 student)
2001; Neuroimaging in Mood Disorders (1 lecture)
2001; Psychiatry Post-Graduate Year II (1 lecture)
2001; Psychiatry Post-Graduate Year III (2 lectures)
2001; Psychiatry Medical Students Year III Didactic Series (5 lectures)
2000; Seminars on fMRI Data Acquisition and Analysis Techniques (6 lectures)
2000; Laboratory Rotation, 1 semester (Meds 496)
2000; Psychiatry Medical Students Year III Didactic Series (5 sessions)
2000; Systems Neuroscience (Meds 371)
1999; Seminars on fMRI Data Acquisition and Analysis Techniques (6 lectures)
1999; Director: Neuroscience 375, Current Topics in Human Brain Imaging
1999; Laboratory Rotation, 2 semesters (Meds 496)
1999; Physiological Digital Imaging (Meds 306), 1 lecture
1999; Neuroscience Seminars (Psych 358), UConn Storrs
1998; Initiated weekly fMRI Journal Club Seminars

1998; Seminar on Alcohol Research, Alcohol Research Center (1 lecture)
1998; Neurosciences Journal Club Seminars (2 lectures)
1998; Auditory Journal Club Seminar (1 lecture)
1998; Seminars on fMRI Data Acquisition and Analysis Techniques (12)
1998; Laboratory Rotation, 1 semester (Meds 496)
1998; Independent Study Course, 1 semester (Meds 495)
1998; Systems Neuroscience, 1 lecture (Meds 371)
1998; Research Seminar in Biopsychology, 1 lecture (Psych 356), UConn Storrs
1997; Human Brain Mapping, Foundation for Advanced Education in the Sciences, NIH
1996; Experimental Design for the Integration of fMRI and EEG data. FMRI Visiting Fellowship Program, MGH NMR Center, Charleston, MA. (1 invited lecture)
1996; Biological Basis of Behavior, Psychology 304; Department of Psychology, Catholic University
1990; Human Nutrition, Biology 22. Teaching Assistant.

Curriculum Development or Teaching Administrative Positions:

Area Head, Graduate Program in Cognition Brain and Behavior; 2006-2011.

Service:

Editorships

2013-Present Editorial Board Member, *Brain Stimulation*

2012-Present Editorial Board Member, *World Journal of Clinical Case Conference*

2012-2014 Clark, V.P., Parasuraman, R., Guest Editors, special issue. "Neuroenhancement: Enhancing brain and mind in health and in disease." *NeuroImage,* 85(3).
Leaders in the field of brain stimulation and related neuroenhancement techniques contributed to this peer-reviewed special issue of *NeuroImage.*

2011-2013 Cooper, M.S., Clark, V.P., Chang, L., Guest Editors, special issue. "Imaging Neuroinflammation and Neuropathic Pain." *Journal of NeuroImmune Pharmacology,* 8(3), 2013.
Selected speakers from our October 2011 meeting, Imaging Neuroinflammation and Neuropathic Pain, contributed to this peer-reviewed special issue.

2010-2014 Handling Editor, *NeuroImage*
One of 15 handling editors for one of the most highly cited journals specializing in neuroimaging. Identified reviewers and made decisions on over 300 manuscripts.

2009 Pietrini, P., Bookheimer, S. and Clark, V.P., Editors. Proceedings, Organization for Human Brain Mapping 15th Annual Meeting (Barcelona). *NeuroImage*, 47(S1).
Organized and edited program book for OHBM meeting.

2002-Present Editorial Board Member, *Human Brain Mapping*

Reviewing for journals, ad-hoc

American Journal of Psychiatry
Archives of Psychiatry
Biological Psychiatry
Brain Research
Cerebral Cortex
Cognitive Brain Research
Cognitive Neuropsychology
European Journal of Neuroscience
Human Brain Mapping
IEEE Transactions on Medical Imaging
JINS
Journal of Cognitive Neuroscience
Journal of NeuroImmune Pharmacology
Journal of Neuroscience
Journal of Neuroscience Methods
Neurobiology of Aging
NeuroImage
Neuron
Neuropsychiatric Genetics
Neuropsychologia

Neuroscience Letters *Psychophysiology*
Psychobiology *Schizophrenia Research*

Reviewing for and national and international funding organizations

2012	Biomedical Research Council (BMRC), Agency for Science, Technology and Research, Singapore, ad-hoc reviewer
2011	Medical Research Council, Great Britain, ad-hoc reviewer
2011	Netherlands Organization for Scientific Research, ad-hoc reviewer
2008	Wise Reviewer, Canadian Foundation for Innovation
Oct and July 2008	International and Cooperative Projects (ICP1) Study Section for Fogarty International Research Collaboration Award in Basic Biomedical Science, NIH.
June 2007	Special Emphasis Panel ZDA1 KXN-G 05, NIDA, NIH
Oct 2006	International and Cooperative Projects (ICP1) Study Section for Fogarty International Research Collaboration Award in Basic Biomedical Science, NIH.
June 2005	RFA 05-006, Study Section ZDA1 MXS-M (31), NIDA, NIH
June 2004	RPHB-B Special Emphasis Panel Study Section, NIH
Oct 2000 and May 2001	NSD-A Study Section, NINDS, NIH
2000-2012	Psychology/Neuroscience Study Section, Canadian Foundation for Innovation

Administrative work with professional societies, elected offices held

2012-Present	Scientific Advisory Committee Member, Reflex Sympathetic Dystrophy Syndrome Association
2005-2010 and 2012-2015	Program Committee Member, Organization for Human Brain Mapping
2007-2010	Education Chair, Organization for Human Brain Mapping. Elected by peers to help design and organize OHBM Education Day courses in Melbourne, San Francisco and Barcelona.

Current administrative work in Department, College, University committees

2006-Present	Member, Policy & Planning Committee, UNM Psychology
2003-Present	Member, Executive Committee for Publications, MIND Clinical Imaging Consortium
2002-Present	Faculty Member, Concentration in Behavioral Neuroscience, UNM Psychology
2002-Present	Faculty Member, Concentration in Cognitive Neuroimaging, UNM Psychology

Previous administrative work in Department, College, University committees

2012-2014	Chair, EU (Online) Money Committee, Psychology, UNM
2006-2014	Member, Conflict of Interest Committee-D, UNM
2012-2013	Chair, Junior Tenure and Promotion Committee, College of Arts and Sciences, UNM
2010-2011	Member, Junior Tenure and Promotion Committee, College of Arts and Sciences, UNM
2010-2011	Chair, Computer/Web Committee, UNM Psychology
2009-2011	Member, Grant Writing & Mentoring, UNM Psychology
2004-2011	Member, Walker Award Committee, UNM Dept. Neuroscience
2007-2009	Chair, DOE Internal Awards Progress Review, MRN
2007	Member, Salary Committee (elected by faculty), UNM Psychology
2006-2011	Area Head, Cognition, Brain and Behavior, UNM Psychology,
2005	Member, Committee on Distinction, UNM Psychology
2003-2005	Member, Science of Learning Center Advisory Committee
2005	Member, T-32 Grant Proposal Advisory Committee, UNM
2004-2005	Chair, Cognitive Search Committee, UNM Psychology

2002-2010	Member, Awards Committee, UNM Psychology
2002-2010	Member, Honors Committee, UNM Psychology
2002-2006	Admissions, UNM Psychology
2002-2005	Member, Computer Usage Committee, UNM Psychology
2002-2005	Member, Domenici Hall Design Committee
2002-2004	Member, MEG Purchasing Committee, MIND Imaging Center
2002-2004	Member, Lead Physicist Search Committee, Mind Imaging Center
2002-2003	Chair, MRI Purchase Committee, Mind Imaging Center
2001-2002	Member, Medical Admissions, UCHC.
2000-2002	Member, Computer Users Advisory Committee, UCHC
1998	Chair, NS-D Neurosciences Chair Search Committee, UCHC
1997-2002	Co-Director, Program in Functional NeuroImaging, UCHC

Community service

2014	Advisor, National Consultative Ethics Committee, Paris, France.
2010	Judge, Dennis Chavez Elementary School Science Fair
2010	Presentation on Brain Research to APS Middle School students
2008-Present	Advisor, Science & Entertainment Exchange, National Academy of Sciences
2005-2009	Lectures on the Brain to Elementary School Children, Sunset Mesa Elementary School.
2000	Lectures (2), Drugs and the Brain: Mini Med School, UConn Health Center.
2000	Bulkeley High School Health Professions Center of Excellence Program

Other:

Recent Media Coverage

Larrsen, K. (2015). Strøm på hjernen (Power on the brain). *D2*, Aug 6, Sweden. http://www.dn.no/d2/2015/08/06/2125/Teknologi/strm-p-hjernen

Finkel, E. (2015). The buzz around brain stimulation. *Cosmos Magazine.* May 11. https://cosmosmagazine.com/life-sciences/buzz-around-brain-stimulation

Batuman, E. (2015). Electrified. Adventures in Transcranial Direct-Current Stimulation. *The New Yorker.* April 6. http://www.newyorker.com/magazine/2015/04/06/electrified

Katsnelson, A. (2015). Hopeful Currents. *Psychology Today.* Jan/Feb, pp. 38-40. http://www.psychologytoday.com/articles/archive

Karlinsky, N. Soichet, A., Effron L. (2014). DIY Brain-Shock Kits Jump Start Users' Day. *ABC Nightline.* Nov 11. http://abc.go.com/shows/nightline/listing/2014-11/11-nightline-1111-diy-brainshock-devices-jump-start-users-day http://abcnews.go.com/Health/diy-brain-shock-kits-jump-start-users-day/story?id=26832073

Wolfson, E. (2014). I Want to Be Your Neuroscience Experiment. *Aljazeera America*. Sep 27. http://america.aljazeera.com/articles/2014/9/27/i-want-to-be-yourneuroscienceexperiment.html

Stallmach, L. (2014). Das Gehirn unter Strom setzen (Put the Brain Under Current). *Neue Zürcher Zeitung.* Sep 17. http://www.nzz.ch/wissenschaft/medizin/das-gehirn-unter-strom-setzen-1.18384671

Madrigal, A.C. (2014). Prepare to Be Shocked. Four Predictions About How Brain Stimulation Will Make Us Smarter. *The Atlantic.* Aug 13. http://www.theatlantic.com/magazine/archive/2014/09/prepare-to-be-shocked/375072/

Carr, S. (2014). Making People Smarter Through Brain Stimulation. July 15. *UNM Newsroom* http://news.unm.edu/news/making-people-smarter-through-brain-stimulation and https://www.youtube.com/watch?v=CptmRZzfd88

Jensen, T. (2014). UNM researcher: Battery Can Treat Brain Disorders. June 27. *KRQE Evening News*. http://krqe.com/2014/06/27/unm-researcher-battery-can-treat-brain-disorders/

Young E. (2014). Low-Tech Pain Relief. June 3. Mosaic Science. http://mosaicscience.com/extra/low-tech-pain-relief

Young, E. (2014). Can You Supercharge Your Brain? June 3. *Mosaic Science*. http://mosaicscience.com/story/can-you-supercharge-your-brain

Young, E. (2014). Brain Stimulation and Me. June 3. *Mosaic Science*. http://mosaicscience.com/extra/brain-stimulation-and-me
Standen, A. (2014). Hacking The Brain With Electricity: Don't Try This At Home. May 19. *National Public Radio*. http://www.npr.org/blogs/health/2014/05/19/312479753/hacking-the-brain-with-electricity-dont-try-this-at-home
Miller, G. (2014). The Unfinished Science Behind the New Wave of Electrical Brain Stimulation. May 5. *Wired*. http://www.wired.com/2014/05/brain-stimulation-science/
Standen, A. (2014). Is Brain Stimulation a Medicine of the Future? March 3. *KQED Science.* http://blogs.kqed.org/science/audio/is-brain-stimulation-a-medicine-of-the-future/
Hurley, D. (2013). Jumper Cables for the Mind. Nov 1. *New York Times.* http://www.nytimes.com/2013/11/03/magazine/jumper-cables-for-the-mind.html?_r=0
Sanides, S. (2013). Besser lernen unter Strom (Learn Better Under Current). *Focus Magazine*, 10, April 3, Germany. http://www.focus.de/wissen/mensch/tid-30087
Hendrix, B. (2012). UNM Professor's Research Focus of TEDxABQ Talk. Sep 10. *UNM Today.* http://news.unm.edu/2012/09/vince-clark-feature
Menchén, J. (2012). Military Use of Neuroscience Should Be Regulated, Report Warns. Feb 7. *United Academics.* http://www.united-academics.org/magazine/sex-society/military-use-of-neuroscience-should-be-regulated-report-warns
Sample, I. (2012). Neuroscience Could Mean Soldiers Controlling Weapons with Minds. Feb 6. *Guardian*, p.3. http://www.theguardian.com/science/2012/feb/07/neuroscience-soldiers-control-weapons-mind
Walker, J. (2011). Interview, *BBC World Service Radio News*.
Fox, D. (2011). Brain Buzz. April 14. *Nature*, doi:10.1038/472156a. http://www.nature.com/news/2011/110413/full/472156a.html
Jung, S. (2011). DARPA Study Uses Video Game to Research tDCS. *medGadget*. http://www.medgadget.com/2011/04/darpa_study_uses_video_game_to_research_tdcs_finds_more_amps_mean_more_frags.html
Yirka, B. (2011). DARPA takes new look at electrical brain stimulation to aid in learning. April 21. *Medical Xpress*. http://medicalxpress.com/news/2011-04-darpa-electrical-brain-aid.html
Bromstein, E. (2011). IQ test no-brainer: Boosting your intelligence quotient may be a mind game. April 21. *NOW Magazine.* http://www.nowtoronto.com/lifestyle/story.cfm?content=180221
Connelly, C. (2011). DARPA test finds running electrical currents through scalp improves video game skills. April 20. *NEWS.COM.AU* http://www.news.com.au/technology/darpa-test-finds-running-electrical-currents-through-scalp-improves-video-game-skills/story-e6frfro0-1226041505464
Boyle, R. (2011) Hooking a 9-volt battery to your brain improves your video game skills, researcher finds. April 15. *Popular Science*. http://www.popsci.com/technology/article/2011-04/direct-current-brain-improves-video-game-skills-researcher-says
Andazola, M. (2010). Rewiring neurons' paths may help with stroke recovery. April 18. *Albuquerque Journal*, C:1. http://www.abqjournal.com/health/192220530847health04-19-10.htm
Andazola, M. (2009). Brain structure may hold key to long-term sobriety. November 30. *Albuquerque Journal*, C:1. http://www.abqjournal.com/health/302152316715health11-30-09.htm
Vance, E. (2009). A neuropsychologist talks about the challenges of studying the addicted brain. *Nature*. http://www.nature.com/news/2009/090625/full/news.2009.600.html
Ramo, B. (2009). Healthbeat: The Promise of MRN Relapse Research for Addiction Treatment. July 20. Interview for KOAT Channel 7 news. http://www.youtube.com/watch?v=nOVFRMjSvHY
Jadrnak, J. (2006). Researchers Studying Minds of Psychopaths. November 20. *Albuquerque Journal*:C1, C3. http://www.abqjournal.com/health/513952health11-20-06.htm
Florin, K. (2002). Researchers Probe Minds of Problem Gamblers. April 8. *The Day*, A:1. http://news.google.com/newspapers?nid=1915&dat=20020407&id=WyEiAAAAIBAJ&sjid=A3QFAAAAIBAJ&pg=1859,1388271

Symposia Chaired and Organized

Co-Chair and Organizer, *Brain Stimulation and Imaging: BrainSTIM2015.* Honolulu, HI, June 12-13, 2015. Presenters: Peter Fox, Peter Bandettini, Marom Bikson, Michael Nitsche and others. Over 100 registrants. http://brainstim2015.org http://youtu.be/Nz5YEJDYCSc

Chair, *Brain Stimulation: Past, Present and Future*. Half-day educational course, Organization for Human Brain

Mapping, Hamburg, Germany, June 8, 2014. Presenters: Drs. Michael Nitsche, Alberto Priori, Bruce Luber, Antonio Strafella, Andrea Antal, Agnes Flöel, Charlotte Stagg, and Lucas Parra.

Chair, *Brain Stimulation*. Non-concurrent symposium, Organization for Human Brain Mapping, Seattle, WA, June 17, 2013. Presenters: Drs. Michael Nitsche, Mark George, Heidi Johansen-Berg and Timothy Wagner.

Co-Organizer and Chair, *Imaging Neuroinflammation and Neuropathic Pain*. Annual meeting, Reflex Sympathetic Dystrophy Syndrome Association, Tamaya Resort, Albuquerque, NM, October 13-15, 2011. Co-chair with Dr. Mark Cooper, University of Washington, and Dr. Erin Milligan, Dept. Neuroscience, UNM. Presenters: James Giordano, Judith Kitzes, Joanna Katzman, Debra Nelson-Hogan, Richard Larson, Corey Ford, Linda Watkins, Mark Cooper, David Borsook, Karen Davis, Do-Hyung Kang, Yong-Chul Kim, Erin Milligan, Jeffrey Norenberg, Ralph James, Terry Lall, Anthony Sims, Nathan Staff, Penny Gowland, Alan Koretsky, Nick Devoogdt, Sandip Biswal, Mike Dailey, Tony Wyss-Coray, Philip Getson, Carl Saab, Joshua Prager, Linda Chang, Mera Barr, Candy McCabe, Norman Harden.

Chair, *Multimodal Neuroimaging: Examples, Benefits and Challenges*. Organization for Human Brain Mapping Educational Session, Barcelona, Spain, June 2010. Presenters: Jon Shah, Rolf Gruetter, Wim Vanduffel, Matti Hamalainen, Tom Eichele, Vince Calhoun, Rainer Goebel.

Chair, Science Offsite Meeting, Mind Research Network, Tamaya Resort, NM, June 2008.

Chair, Science Report, Mind Research Network Board of Trustees Meeting, Domenici Hall, April 2006; October 2006; April 2007; October 2007; April 2008.

Chair, *Cognitive Neuroimaging: Progress and Processes*. University of New Mexico and MIND Institute, April 2003. Presenters: S.A. Hillyard, J.V. Haxby, R. Cabeza, J. Gabrieli, H. Neville, S. Petersen, S. Bookheimer, and R. Buckner.