

Curriculum Vitae

Name:	Greg Siegle	Birth Date:	
Home Address:		Birth Place:	
		Citizenship:	US
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Business Address:	Western Psychiatric Institute and Clinic 3811 O'Hara St Pittsburgh, PA 15213-2593	Web:	www.pitt.edu/~gsiegle
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Education and Training

UNDERGRADUATE

1987-1991	Brown University, Providence, RI	Sc.B. with honors <i>magna cum laude</i> (1991)	Cognitive Science, Advisor: Bill Warren, Ph.D., Thesis: Time is of the Essence: A Theory of Multiple Rate Determined Methods for Understanding Continuous Change
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GRADUATE

1992-1993	Northwestern University, Evanston IL	Graduate courses	Computer Science, Advisor: Ken Forbus, Psychology, Advisor: Dedre Genter
1994-1996	San Diego State University	M.S. (1996)	Psychology, Advisors: Rick Ingram, Ph.D., Georg Matt, Ph.D. Thesis: Rumination on Affect: Cause for negative attention biases in depression?
1993-1999	San Diego State University / University of California, San Diego Joint Doctoral Program	Doctor of Philosophy (1999)	Clinical Psychology, Advisors: Rick Ingram, Ph.D., Georg Matt, Ph.D., Dissertation: Cognitive and Physiological Aspects of Attention to Personally Relevant Negative Information in Depression
1998-1999	Clarke Institute of Psychiatry, Toronto, ON	Clinical Internship	Clinical Psychology, Mentor: Zindel Segal, Ph.D.

POSTGRADUATE

1999-2001	Western Psychiatric Institute and Clinic, University of Pittsburgh Medical School, Pittsburgh, PA	NIH Post-doctoral Fellow	Psychiatry, Program Director: David Kupfer, M.D., Mentors: Stuart Steinhauer, Ph.D., Cameron Carter, M.D., Michael Thase, M.D.
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Appointments and Positions

2001-2007	University of Pittsburgh School of Medicine, Department of Psychiatry	Assistant Professor of Psychiatry
2001-2005	University of Pittsburgh School of Medicine, Department of Psychiatry	Director of Affective Neuroscience for the Clinical Cognitive Neuroscience Laboratory
2001-present	University of Pittsburgh School of Medicine, Department of Psychiatry	Director of Program in Cognitive Affective Neuroscience (PICAN)
2001-present	Pittsburgh VA Healthcare System	Director of Affective Neuroscience for the Biometrics Research Program
2001 – present	Center for the Neural Basis of Cognition, University of Pittsburgh & Carnegie Mellon University	Faculty

2002-present	University of Pittsburgh, Department of Psychology	Faculty, Cognitive and Clinical Tracks
2006-present	Pittsburgh Mind Body Center	Faculty
2007-present	University of Pittsburgh, Center for Neuroscience (CNUP)	Faculty
2007-present	University of Pittsburgh School of Medicine, Department of Psychiatry	Associate Professor of Psychiatry
2010-present	Clinical Translational Science Institute	Faculty

Memberships in Professional and Scientific Societies

Society for Affective Science (we're just forming it now...)	2012-present
Society of Biological Psychiatry	2008-present
Society for Neuroscience	2003-present
Organization for Human Brain Mapping	2004-present
Cognitive Neuroscience Society	2003-2005
Society for Behavioral Medicine	2002
Society for Psychophysiological Research	2000-present
Association for Behavioral and Cognitive Therapies (ABCT)	1994-present
Formerly Association for the Advancement of Behavioral Therapy (AABT)	
American Psychological Association	1993-present
Sigma Xi	1991-present

Honors

Senior poster award, International Academy for Sex Research (IASR), Chicago, IL	2013
John and Sally Morley Family Foundation Lecturer, Case Western Reserve University, Cleveland, Ohio	2013
G Kirby Collier Lecturer, University of Rochester, New York	2012
Norman Greenfield Memorial Fund Lecturer, University of Wisconsin, Madison	2010
Joseph Zubin Memorial Fund Award for research in psychopathology	2008
Beck Institute Scholar	2007-2008
Selected as one of two researchers in the country to represent NIMH to congress at the 10 th anniversary of the Office of Behavioral and Social Sciences Research	2006
Sutton Lecturer, New York Psychiatric Institute	2006
WPIC Young Investigator Lecturer	2003
WPIC Research Day presentation award	2002
WPIC Junior Faculty Scholar	2001-2002
NARSAD Young Investigator award	2000
Health Emotions Research Institute Travel Award, University of Wisconsin	1998,1999, 2001
Nominated by University of Pittsburgh for Burroughs-Wellcome Award	2000
Dorothy K. Fricke Award, Voted by Joint Doctoral Program faculty for the graduate student who made the most significant contribution to the program	1996
Travel Award, University of Maryland	1995
Elected an Associate Member of Sigma Xi, The Scientific Research Society	1991
National Merit Scholar.	1987

Publications

Consistent with the tradition of psychology, Dr. Siegle generally uses the second author position to indicate senior author status. If a student's or strongly contributing co-author's career would strongly benefit from a second authorship, he uses the last author position. Thus, senior authorships are indicated below with a *.

In Press and Published Peer Reviewed Articles

1. **Siegle, G. J.**, Price, R. B., Jones, N. P., Ghinassi, F., & Thase, M. E. (in press). You gotta work at it: Pupillary indices of task focus are prognostic for response to a neurocognitive intervention for depression. *Clinical Psychological Science*.
2. Dombrovski, A.Y., Szanto, K., Clark, L., Reynolds, C.F., **Siegle, G.J.*** (in press). Reward signals in late-life depression and attempted suicide: Contributions of impulsivity and executive dysfunction. *JAMA Psychiatry*
3. Mullin BC, Phillips ML, **Siegle GJ**, Buysse DJ, Forbes EE, Franzen PL (in press): Sleep deprivation amplifies striatal activation to monetary reward. *Psychological Medicine*.
4. Franzen P.L., Gianaros P.J., Marsland A.L., Hall M.H., **Siegle G.J.**, Dahl R.E., Buysse D.J. (in press): Sleepless nights and stressful days: Effects of sleep deprivation on mental stress-induced blood pressure reactivity. *Psychosomatic Medicine*.
5. Miller JM*, Schneck N*, **Siegle G.J.**, Chen Y, Ogden RT, Kikuchi T, Oquendo MA, Mann JJ, Parsey RV. (2013). fMRI response to negative words and SSRI treatment outcome in major depressive disorder: a preliminary study. *Psychiatry Research: Neuroimaging*, accepted. PMID – In Process. *These authors contributed equally.
6. Dombrovski, A., **Siegle, G.J.***, Szanto, K., Clark, L., Reynolds, C.F., Aizenstein, H. (2013) The temptation of suicide: Striatal gray matter, discounting of delayed rewards, and suicide attempts in late-life depression. *Psychological Medicine*. 42(6), 1203-1215. PMID: 21999930. PMID:PMC3368587.
7. Price R.B., Paul, B.S., Schneider, W., **Siegle, G.J.*** (2013) Neural correlates of three emotion regulation strategies: A preliminary step towards personalized neurocognitive treatment for psychological disorders. *Cognitive Therapy and Research*, 37, 657-572.
8. Graur, S., **Siegle, G.J.*** (2013). Pupillary motility: Bringing neuroscience to the psychiatry clinic of the future. *Current Neurology and Neuroscience Reports*, 13(8), 365-372. PMID: 23780801.
9. Price, R.B., **Siegle, G.J.***, Silk, J.S., Ladouceur, C., McFarland, A., Dahl, R.E., Ryan, N.D. (2013) Sustained neural alterations in anxious youth performing an attentional bias task: A pupilometry study. *Depression and Anxiety*, 30(1), 22-30.
10. Silk, J. S., Sheeber, L., Tan, P. Z., Ladouceur, C. D., Forbes, E. E., McMakin, D. L., Dahl, R. E., **Siegle, G.J.**, Kendall, P.C., Mannarino, A., Ryan, N.D. (2013). "You can do it!": The role of parental encouragement of bravery in child anxiety treatment. *Journal of Anxiety Disorders*, 27(5), 439-446.
11. Lee, K.H.L & **Siegle, G.J.*** (2012). Common and distinct brain networks underlying explicit emotional evaluation: A meta-analytic study. *Social Cognitive and Affective Neuroscience*. 7(5), 521-534. PMID: 19270039.
12. **Siegle, G.J.**, Thompson, W. K., Collier, A., Berman, S. R., Feldmiller, J., Thase, M. E., & Friedman, E. S. (2012). Towards clinically useful neuroimaging in depression treatment: Prognostic Utility of subgenual cingulate activity for determining depression outcome in Cognitive Therapy across studies, scanners, and patient characteristics. *Archives of General Psychiatry*, 69(9), 913-924. PMID: 22464141.
13. Conner, O. L., **Siegle, G. J.***, Mcfarland, A. M., Silk, J. S., Ladouceur, C. D., Dahl, R. E., Coan, J.A., Ryan, N.D. (2012). Mom – it helps when you're right here! Attenuation of neural stress markers in anxious youths whose caregivers are present during fMRI. *PLoS ONE*, 7(12), e50680.
14. Hooley, J., **Siegle, G.J.**, Gruber, S. A. (2012) Affective and neural reactivity to criticism in individuals high and low on perceived criticism, *PLoS-One*, 7(9), 1-9
15. Price, R. B., Siegle, G., & Mohlman, J. (2012). Emotional stroop performance in older adults: effects of habitual worry. *Am J Geriatr Psychiatry*, 20(9), 798-805.
16. Dahl, R. E., Silk, J. S., & **Siegle, G. J.** (2012). Physiological measures of emotion dysregulation:

Investigating the development of affective disorders. *Monographs of the Society for Research in Child Development*, 77(2), 69-78.

17. Hofmann, S., Ellard, K.K., **Siegle, G.J.**, (2012) Neurobiological correlates of cognitions in fear and anxiety: A cognitive-neurobiological information processing model, *Cognition and Emotion*, 26(2), 282-299. PMID: 21806384.
18. Silk, J.S., Stroud, L., Dahl, R., **Siegle, G.J.**, Lee, K.H., Nelson, E. (2012). Peer acceptance through the eyes of youth: Pupillary, eyetracking, and ecological data from the Chatroom Interact task. *Social, Cognitive, and Affective Neuroscience*, 7(1), 93-105. PMID: 21775386.
19. Tan, P. Z., Forbes, E. E., Dahl, R. E., Ryan, N. D., **Siegle, G. J.**, Ladouceur, C. D., & Silk, J. S. (2012). Emotional reactivity and regulation in anxious and nonanxious youth: a cell-phone ecological momentary assessment study. *J Child Psychol Psychiatry*, 53(2), 197-206. doi: 10.1111/j.1469-7610.2011.02469.x PMID: 22176136
20. Dombrovski, A., Szanto, K, **Siegle, G.J.**, Wallace, M.L., Forman, S.D., Sahakian, B., Reynolds, C. F., Clark, L. (2011). Lethal forethought: Discounting of future monetary rewards and attempted suicide in late-life depression. *Biological Psychiatry*, 70(2), 138-144. PMID: 21329911.
21. Schlund, M. W., Cataldo, M.F., **Siegle, G.J.**, Ladouceur, C.D., Silk, J.S., Forbes, E.E., McFarland, A., Iyengar, S., Dahl, R.E., Ryan, N.D. (2011). Pediatric functional magnetic resonance neuroimaging: A conceptual framework and tactics for encouraging task compliance. *Behavioral and Brain Functions*, 7(10). PMID: 21548928.
22. McMakin, D.L., **Siegle, G.J.**, & Shirk, S.R. (2011). Positive Affect Stimulation and Sustainment (PASS) module for depressed mood: A preliminary test of treatment-related effects. *Cognitive Therapy and Research*, 35(3), 217-226. PMID: 22140287.
23. McMakin, D.L., Burkhouse, K., Olino, T.M., **Siegle, G.J.**, Dahl, R.E., & Silk, J.S. (2011). Affective functioning among early adolescents at high and low familial risk for depression and their mothers: A focus on individual and transactional processes across contexts. *Journal of Abnormal Child Psychology*, 39(8), 1213-1225. PMID: 21744058.
24. Jain, S., **Siegle, G.J.***, Chen, G., Moore, C.G., Ivanco, L.S., Studenski, S., Greenamyre, J.T., Steinhauer, S.R. (2011). Pupillary unrest correlates with arousal symptoms and motor signs in Parkinson's disease. *Movement Disorders*, 26(7), 1344-1347. PMID: 21506163.
25. Clark, L., Dombrovski, A. Y., **Siegle, G.J.**, Butters, M.A., Shollenberger, C.L., Sahakian, B.J., Szanto, K. (2011). Impairment in risk-sensitive decision-making in older suicide attempters with depression, *Psychological Aging*, 26(2), 321-330. PMID: 21443349
26. Ichikawa, N., **Siegle, G.J.***, Jones, N.P., Kamishima, K., Thompson, W., Gross, J.J., Ohira, H. (2011) Feeling bad about screwing up: Emotion regulation and action monitoring in the anterior cingulate cortex (ACC), *Cognitive, Affective, and Behavioral Neuroscience*, 11(3), 354-371. PMID: 21590316.
27. **Siegle, G.J.**, Steinhauer, S.R., Friedman, E., Thase, M.E. (2011). Remission prognosis for Cognitive Therapy for recurrent depression using the pupil: Utility and neural correlates, *Biological Psychiatry*, 69, 726-33. PMID: 21447417.
28. Jones, N.P., **Siegle, G.J.***, Proud, L., Silk, J.S., Hardy, D., Keljo, D.J., Dahl, R.E., Szigethy, E. (2011). The impact of inflammatory bowel disease and high dose steroid exposure on pupillary responses to negative information in pediatric depression. *Psychosomatic Medicine*, 73, 151-157. PMID: 21217099.
29. Jain, S., **Siegle, G.J.***, Gu, C., Moore, C.G., Ivanco, L.S., Jennings, J.R., Steinhauer, S.R., Studenski, S., Greenamyre, T. (2011). Autonomic insufficiency in pupillary and cardiovascular systems in Parkinson Disease. *Parkinsonism & Related Disorders*, 17, 119-122. PMID: 21115264.
30. Calkins AW, Deveney CM, Weitzman ML, Hearon BA, **Siegle GJ**, Otto MW (2011) The effects of prior cognitive control task exposure on responses to emotional tasks in healthy participants. *Behav Cogn Psychother* 39: 205-220. PMID: 21114896.
31. Oathes, D.J., **Siegle, G.J. *** & Ray, W.J. (2011). Chronic worry and the temporal dynamics of emotional processing. *Emotion*, 11, 101-114. PMID: 21401230.
32. Steidtmann, D., Ingram, R. E., **Siegle, G.J. *** (2010). Pupil response to negative emotional information in

- individuals at-risk for depression. *Cognition and Emotion*, 24, 480-496.
33. Ichikawa, N., **Siegle, G.J.***, Dombrovski, A., Ohira, H. (2010). Subjective and model-estimated reward prediction: Association with the feedback-related negativity (FRN) and reward prediction error in a reinforcement learning task. *International Journal of Psychophysiology*, 78, 273, 283. PMID: 20858518.
 34. Condray, R., **Siegle, G.J.**, Keshavan, M.S., Steinhauer, S. R. (2010). Effects of word frequency on semantic memory in schizophrenia: Electrophysiological evidence for a deficit in linguistic access. *International Journal of Psychophysiology*, 75, 141-156. PMID: 19896508.
 35. **Siegle, G.J.**, Johnson, S. L., Everhart, D.E., Newton, T. (2010). Tips on writing National Research Service Award Predoctoral Fellowship proposals from real NRSA reviewers. *The Behavior Therapist*, 33, 160-164.
 36. Dombrovski, A. Y., Clark, L., **Siegle, G. J.**, Butters, M.A., Ichikawa, N., Sahakian, B., Szanto, K. (2010). Reward/punishment reversal learning in older suicide attempters. *American Journal of Psychiatry*, 167, 699-707. PMID: 20231320. PMCID:PMC3020386.
 37. Schlund MW, **Siegle GJ***, Ladouceur CD, Silk JS, Cataldo MF, Dahl RE, Ryan, ND. (2010) Nothing to fear? Neural systems supporting avoidance in healthy youths. *Neuroimage*, 52, 2, 710-719. PMID: 20430103.
 38. Biswal, B. B., Mennes, M., Zuo, X., Gohel, S., Kelly, C., Smith, S. M., Beckmann, C. F., Adelstein, J. S., Buckner, R. L., Colcombe, S., Dogonowski, A., Ernst, M., Fair, D., Hampson, M., Hoptman, M. J., Hyde, J. S., Kiviniemi, V. J., Kötter, R., Li, S., Lin, C., Lowe, M. J., Mackay, C., Madden, D. J., Madsen, K. H., Margulies, D. S., Mayberg, H. S., McMahon, K., Monk, C. S., Mostofsky, S. H., Nagel, B. J., Pekar, J. J., Peltier, S. J., Petersen, S. E., Riedl, V., Rombouts, S. A., Rypma, B., Schlaggar, B. L., Seidler, S. S., **Siegle, G. J.**, Sorg, C., Teng, G., Veijola, J., Villringer, A., Walter, M., Wang, L., Weng, X., Whitfield-Gabrieli, S., Williamson, P., Windischberger, C., Zang, Y., Zhang, H., Castellanos, F. X., Milham, M. P., (2010) Towards discovery science of human brain function. *Proceedings of the National Academy of Science*, 107, 4734-4739. PMID: 20176931.
 39. **Siegle, G.J.**, Condray, R., Thase, M.E., Keshavan, M., Steinhauer, S.R. (2010). Sustained gamma-band EEG during emotional information processing in depression and schizophrenia. *International Journal of Psychophysiology*, 75, 107-118. PMID: 20005267. NIHMSID 524631.
 40. Jones, N.P., **Siegle, G.J. ***, Muelly, E.R., Haggerty, A., Ghinassi, F. (2010). Could allocating resources to task-irrelevant processing contribute to cognitive deficits in depression? Insights from pupil motility during a continuous cognitive task. *Cognitive, Affective, and Behavioral Neuroscience*, 10, 129-140.
 41. Franzen, P.L., Buysse, D.J., Dahl, R.E., **Siegle, G.J. *** (2009). Sleep deprivation alters affect reactivity to negative emotional information in healthy young adults. *Biological Psychology*, 80, 300-305. PMID: 19041689.
 42. Sagrati, S., Miezitis, S., **Siegle, G.J.**, Reyes, G.P.,Voineskos, A.N., & Meyer, J.H. (2009). The limitations in using the step test and the 220-age formula to examine physical activity in relation to vulnerability to depression. *Baltic Journal of Psychology*, 10, 25-38.
 43. Tindle, H.A., Chang, Y.F., Manson, J.E., Robinson, J.G., Rosal, M.C., **Siegle, G.J.**, Matthews, K.A. (2009). Optimism, cynical hostility, and incident coronary heart disease and mortality in the Women's Health Initiative. *Circulation*, 120, 656-662. PMID: 19667234.
 44. Gibbs, L.M., Dombrovski, A. Y., Morse, J., **Siegle, G. J.**, Houck, M.S., Szanto, K. (2009). When the solution is part of the problem: Problem solving in elderly suicide attempters. *International Journal of Geriatric Psychiatry*, 24, 1396-1404. PMID: 19405045.
 45. Zhou, D., Thompson, W.K. & **Siegle, G.J.*** (2009), MATLAB toolbox for functional connectivity, *Neuroimage*, 47, 1590-1607. PMID: 19520177.
 46. Thompson, W.K. & **Siegle, G.J.*** (2009) A stimulus-locked vector autoregressive model for slow event-related fMRI designs, *Neuroimage*, 46, 739-748. PMID: 19236927.
 47. Tamburo, R. **Siegle, G.J.**, Stetten, G.D., Cois, A., Reynolds, C. F., & Aizenstein, H.J. (2009). Amygdala morphometry in late-life depression. *International Journal of Geriatric Psychiatry*, 24, 837-846. . PMID: 19085964.
 48. Silk, J. S., **Siegle, G. J. ***, Whalen, D. J., Ostapenko, L., Ladouceur, C. D., & Dahl, R. E. (2009). Pubertal

- changes in emotional information processing: pupillary, behavioral, and subjective evidence during emotional word identification. *Development and Psychopathology*, 21, 7-26. PMID: 19144220.
49. DeRubeis, R.J., **Siegle, G. J.**, Hollon, S., (2008). Cognitive therapy versus medications for depression: treatment outcomes and neural mechanisms. *Nature Neuroscience: Reviews*, 9, 788-796. PMID: 18784657.
 50. Jones, N., **Siegle, G.J.** *, Thase, M.E. (2008). Effects of rumination and initial severity on response to Cognitive Therapy for depression. *Cognitive Therapy and Research*, 32,591-604. PMID: 18665867.
 51. **Siegle, G.J.**, Ichikawa, N., Steinhauer, S.R. (2008). Blink before and after you think: Blinks occur prior to and following cognitive load indexed by pupillary responses. *Psychophysiology*, 45, 679-687.
 52. Franzen, P.L., **Siegle, G.J.** *, Buysse, D.J. (2008). Relationships between Affect, Vigilance, and Sleepiness Following Sleep Deprivation. *Journal of Sleep Research*, 17, 34-41. PMID: 18275553.
 53. Silk, J.S., Dahl, R.E., Ryan, N.D., Birmaher, B., Axelson, D. **Siegle, G.J.** * (2007). Pupillary reactivity to emotional information in child and adolescent depression: Links to clinical and ecological measures. *American Journal of Psychiatry*, 164, 1873-1880. PMID: 18056243.
 54. **Siegle, G.J.**, Ghinassi, F., Thase, M.E. (2007). Neurobehavioral therapies in the 21st century: Summary of an emerging field and an extended example of Cognitive Control Training for depression. *Cognitive Therapy and Research*, 31, 235-262.
 55. **Siegle, G.J.**, Thompson, W., Thase, M.E., Steinhauer, S.R., Carter, C. S., (2007). Increased amygdala and decreased dorso-lateral prefrontal BOLD responses in unipolar depression: Related and independent features. *Biological Psychiatry*, 61, 198-209. PMID: 17027931.
 56. Forbes, E.E., May, J.C., **Siegle, G.J.**, Ladouceur, C.D., Ryan, N.D., Carter, C.S., Dahl, R.E. (2006). Reward-Related Decision-Making in Pediatric Anxiety and Major Depressive Disorders: An fMRI Study. *Journal of Clinical Child and Adolescent Psychology*, 47, 1031-1040. PMID: 17073982.
 57. **Siegle, G.J.** (2006). From brain imaging to intervention: Disruptions of emotional reactivity in unipolar depression. *Japanese Journal of Research on Emotions*, 13, 65-82.
 58. Larson, C., Schaefer, H.S., **Siegle, G.J.**, Jackson, C. A. B., Anderle, M.J., Davidson, R.J. (2006). Fear is fast in phobic individuals: Amygdala activation in response to fear-relevant stimuli. *Biological Psychiatry*. 60, 410-417. PMID: 16919528.
 59. **Siegle, G.J.**, Carter, C.S., Thase, M.E. (2006). Use of fMRI to predict recovery from unipolar depression with Cognitive Behavior Therapy. *American Journal of Psychiatry*, 163, 735-738. PMID: 16585452.
 60. Gianaros, P., Derbyshire, S. W. G., May, J. C., **Siegle, G. J.**, Jennings, J. R. (2005). Increased mean arterial pressure to a behavioral stressor correlates with concurrent fMRI BOLD activation in cortical and subcortical brain regions. *Psychophysiology*, 42, 627-635.
 61. Gianaros, P., May, J. C., **Siegle, G. J.**, Jennings, R. J. (2005). Is there a functional neural correlate of individual differences in cardiovascular reactivity? *Psychosomatic Medicine*. 67, 31-39. PMID: 15673621.
 62. **Siegle, G. J.**, Moore, P., Thase, M.E. (2004). Rumination: One construct, many features in healthy individuals, depressed individuals, and individuals with Lupus. *Cognitive Therapy and Research*. 28, 645-668. PMID: 15003373.
 63. Ingram, R.E., Bailey, K., & **Siegle, G.J.** (2004). Emotional information processing and disrupted parental bonding. *Journal of Cognitive Psychotherapy*, 18, 53-65.
 64. **Siegle, G.J.**, Steinhauer, S.R., Thase, M.E. (2004). Pupillary assessment and computational modeling of the Stroop task in depression. *International Journal of Psychophysiology*, 52, 63-76.
 65. Steinhauer, S.R., **Siegle, G.J.**, Condray, R., Pless, M. (2004). Sympathetic and Parasympathetic Innervation of Pupillary Dilation During Sustained Processing. *International Journal of Psychophysiology*, 52, 77-86. PMID: 15003374.
 66. Forman, S. D., Dougherty, G. G., Casey, B. J., **Siegle, G. J.**, Braver, T. S., Barch, D. M., Stenger, V. A., Wick-Hull, C., Pisarov, L. A., Lorensen, E. (2004). Opiate addicts lack error-dependent activation of anterior cingulate. *Biological Psychiatry*, 55, 531-537. PMID: 15023582.
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- Psychiatry*, 54, 1134-1148. PMID: 14643080.
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 71. **Siegle, G. J.** & Hasselmo, M. E. (2002). Using connectionist models to guide assessment of psychological disorder. *Psychological Assessment*, 14, 263-278. PMID: 12214433.
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 75. **Siegle, G. J.**, Granholm, E., Ingram R. E., Matt, G. E. (2001). Pupillary response and reaction time measures of sustained processing of negative information in depression. *Biological Psychiatry*, 49, 624-636. PMID: 11297720
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 80. Shadish, W. R., Matt, G. E., Navarro, A. M., **Siegle, G. J.**, Crits-Christoph, P., Hazelrigg, M., Jorm, A., Lyons, L. S., Nietzel, M. T., Prout, H. T., Robinson, L., Smith, M. L., Svartberg, M., & Weiss, B. (1997). The generalization of psychotherapy research to clinically representative conditions: A preliminary answer. *Journal of Consulting and Clinical Psychology*, 65, 355-365.
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 82. Banchoff, T., Achter, J., Ahmad, R., Curtis, C., Hendrickson, C., **Siegle, G. J.**, & Stone, M., (1991). Student Generated Software for Differential Geometry. In W. Zimmerman & S. Cunningham, (Eds.), *Visualization in Teaching and Learning Mathematics*, Mathematical Association of America.
 83. Banchoff, T., Achter, J., Ahmad, R., Curtis, C., Hendrickson, C., **Siegle, G. J.**, & Stone, M., (1990). Student Generated Interactive Software for Calculus of Surfaces in a Workstation Laboratory, *Undergraduate Mathematics Education Trends*.

* = Senior or corresponding author

Submitted

1. Callan J.A., **Siegle G.J.***, Abebe K., Black B., Martire L., Schulz R., Reynolds C.F., Hall M. (submitted) Feasibility of adjunctive Pocket-PC based cognitive control intervention in dementia caregivers.
2. Calkins A.W., McMorran K.E., **Siegle G.J.**, Otto M.W. (submitted) The effects of computerized cognitive control training on community adults with depressed mood.

3. Mandell D., **Siegle, G.J.***, Silk, J.S., Ladouceur, C., Dahl, R.E., Ryan, N.D. (submitted) Somatic awareness in anxious youth: Relating trait and situational symptoms to neural mechanisms of threat-processing.
4. Horner, M.S., **Siegle, G.J.**, Friedman, E.S. (submitted). C'mon get happy! Sustained affect following positive stimuli in depression.
5. **Siegle, G. J.**, Gotlib, I.H., Whalen, P.J., Lee, K. H., Thase, M.E. (submitted). A little emotion goes a long way: Increased amygdala responses to momentary negative stimuli but blunted RSA responses to repeated negative stimuli in unipolar depression.
6. **Siegle, G. J.**, Silk, J.S., Forbes, E., Bertocci, M., Trubnick, L., Dahl, R.E., Ryan, N., Williamson, D. E., Birmaher, B., Axelson, D., Hariri, A. R. (submitted). Variability in subgenual cingulate activity predicts individual differences in stress and negative affect in daily life.
7. Haggerty, A.E., Muelly, E.R., Konecky, R.O., Dahl, R.E., Thase, M.E., Aizenstein, H.A., Drevets, W.C., Cho, R., **Siegle, G. J.** (submitted). Amygdala volume in unipolar depression through the lifespan.
8. Wheeler, L. & **Siegle, G.J.** (submitted). Ventromedial prefrontal cortex and affect: A review of neuroimaging studies of primary and secondary inducers of emotion
9. Lee, K. H. & **Siegle, G. J.** (submitted). Different BOLD responses to emotional faces and emotional faces augmented by contextual information.
10. Lee, K. H. & **Siegle, G. J.** (submitted). Subjective emotional experience is modulated by emotional faces and contextual information.

Invited Articles

1. **Siegle, G.J.** (in press). Neuroimaging of cognitive behavioural therapy for depression and anxiety: Towards personalized treatment. *European Journal of Neuropsychopharmacology*
2. Callan, J.A., Thase, M.E., **Siegle, G.J.** (2012). Advancing the evidence and approaches for homework. *Advances in Cognitive Therapy Newsletter*, 11(4), 8-10.
3. **Siegle, G.J.** (2011). Wherefore art though, depression clinic of tomorrow? *Clinical Psychology: Science & Practice*, 18(4), 305-310.
4. **Siegle, G.J.** & Dannlowski, U. (2009). Many roads, many Romes: Neuroscience of heterogeneity in unipolar depression. *Frontiers in Neuroscience*, 3, 232-233.
5. **Siegle, G.J.** (2008). Introduction to Special Issue on Rumination: From Mechanisms to Treatment. *Cognitive Therapy and Research*, 32, 4, 471-473.
6. Horner, M. S. & **Siegle, G. J.** (2008) Integration of neuroimaging into clinical pediatric psychiatry? *Journal of the American Academy of Child & Adolescent Psychiatry*, 47, 1211-1212.
7. **Siegle, G.J.** (2007). Brain mechanisms of borderline personality disorder at the intersection of cognition, emotion, and the clinic. *American Journal of Psychiatry*, 164. 1776-1779.
8. **Siegle, G.J.** & Ford, J. (2002-2010). *Some hints on obtaining a K01 for post-docs and junior faculty.* Available web: <http://www.4researchers.org/contributors495>. Also available web as a slide-show and interview with Greg Siegle by MediSpin, MedEd Mentoring: <http://www.mededmentoring.org/proginform.asp?progid=25&pg=1>. The most recent version of this document is maintained at: <http://www.pitt.edu/~gsiegle/khints-wholeworld070610.pdf>
9. Papageorgiou, C. & **Siegle, G.J.** (2003). Rumination and Depression: Advances in Theory and Research. *Cognitive Therapy and Research*, 27, 243-245.
10. **Siegle, G. J.**, Konecky, R.O., Thase, M.E. Carter, C. S., (2003). Relationships between amygdala volume and activity during emotional information processing tasks in depressed and never-depressed individuals: An fMRI investigation. *Annals of the New York Academy of Science*, 985, 481-484.
11. **Siegle, G. J.** & Segal, Z. (2000). The river is wide but the current is strong. *Contemporary Psychology*. 45, 3, 257-259
12. **Siegle, G. J.** (1999). A neural network model of attention biases in depression. *Progress in Brain Research*, 121, 415-441. This paper is also available on the World Wide Web at <http://kraepelin.wpic.pitt.edu/~siegle/gregweb/nndepmod/>
13. **Siegle, G. J.** (1999). How to legitimate a field. *Neural Networks*, 12, 1331-1333.

14. **Siegle, G. J.**, & Ingram, R. E. (1996). The big picture. *Contemporary Psychology*, 41(2), 163-164.

Book Chapters

1. Hansen, N. & **Siegle, G.J.** (in press). Paving the Road to the Neurocognitive Clinic of Tomorrow: Standards and Milestones. In Mohlman, J., Deckersbach, T., & Weissman, A. (Eds). *Clinical Psychology: A Neurocognitive Perspective*. New York, Routledge.
2. **Siegle, G.J.**, Forbes, E., Silk, J.S. (in press). Positive affect systems in depression: The road less (explicitly) traveled. In J. Gruber and J. Moskowitz (Eds). *The Dark and Light Sides of Positive Emotion*, Oxford University Press.
3. **Siegle, G. J.** & Aizenstein, H. (in press). Computational approaches to understanding the neurobiology of major depression: Integration through simulation. In D. Barch (Ed.) *Cognitive and affective neuroscience of psychopathology*. Oxford, England: Oxford University Press.
4. **Siegle, G.J.** (2009). The Amygdala. In R. E. Ingram (Ed.) *International Encyclopedia of Depression*, Springer.
5. **Siegle, G.J.** & Aizenstein, H. (2009). Computational Simulations of Depression. In R. E. Ingram (Ed.) *International Encyclopedia of Depression*, Springer.
6. **Siegle, G.J.** (2009). Brain Imaging in Mid-Life Depression. In R. E. Ingram (Ed.) *International Encyclopedia of Depression*, Springer.
7. Ingram, R. E. & **Siegle, G. J.** (2008). Contemporary methodological issues in the study of depression. In I. Gotlib & C. Hammen (Eds). *Handbook of Depression (2nd Ed)*. Guilford.
8. **Siegle, G.J.** (2008). Where our eyes don't go. In J. Brodsky (Ed.) *Make your own truth*. Pittsburgh, PA: Encyclopedia Destructica.
9. **Siegle, G. J.** & Thayer, J. T. (2004). Physiological aspects of depressive rumination. In C. Papageorgiou & A. Wells (Eds). *Depressive Rumination: Nature, Theory and Treatment*. New York: Wiley. 79-104.
10. Ingram, R. E. & **Siegle, G. J.** (2002). Contemporary methodological issues in the study of depression: Not your father's Oldsmobile. In I. Gotlib & C. Hammen (Eds). *Handbook of Depression*. 86-114.
11. Matthews, G., Derryberry, D., **Siegle, G. J.** (2000). Personality and emotion: Cognitive science perspectives. In S. E. Hampson (Ed.), *Advances in Personality Psychology*, vol. 1. (pp. 199-237) Psychology Press / Taylor & Francis, Philadelphia, PA.
12. Ingram, R. E. & **Siegle, G. J.** (2000). Cognition and clinical science: From revolution to evolution. In K. Dobson (Ed.) *Handbook of Cognitive Therapy*. (pp. 111-138). New York: Guilford.
13. Ingram, R. E., Scott, W., **Siegle, G. J.** (1999) Depression: Social and Cognitive Aspects.. In T. Millon, P. H. Blaney, & R. D. Davis (Eds.), *Oxford Textbook of Psychopathology* (pp. 203-226). Oxford University Press.
14. **Siegle, G. J.** & Ingram, R. (1997). Modeling individual differences in negative information processing biases. In G. Matthews (Ed.), *Cognitive Science Perspectives on Personality and Emotion*. pp. 301-353. New York, NY: Elsevier.
15. Dombek, M., **Siegle, G. J.**, & Ingram, R. E., (1996). Cognitive interference and coping strategies in vulnerability to negative affect: The threats to identity model. In I. G. Sarason, B. Sarason, & G. Pierce (Eds.). *Cognitive interference: Theories, methods, and findings*. (pp. 299-323). Mahwah, NJ: Erlbaum.

Invited Addresses

1. **Siegle, G.J.** (2013). Neural pathways paved with good intentions: Precision medicine in next-generation depression and anxiety clinics. *Anxiety and Depression Association of America*, April, San Diego, CA.
2. **Siegle, G.J.** (2012). The promise of crowd-sourcing and artificial intelligence in psychiatric neuroscience. Keynote lecture at the AAAI Fall Symposium Meeting *Machine Aggregation of Human Judgment*. November, Arlington, VA.
3. **Siegle, G.J.** (2012). Wherefore art thou depression clinic of the future: From today's cognitive neuroscience to tomorrow's clinic. *G Kirby Collier Memorial lecture*, University of Rochester, May, New York.
4. **Siegle, G.J.** (2011). Depression subtypes: Neuroscience perspectives/ Workshop: *Advances in the*

Treatment of Mood Disorders, November, Pittsburgh, PA. Available web:
<http://www.upmcphysicianresources.com/cme-presenter/greg-j-siegle-phd>

5. **Siegle, G.J.** (2011). The Transdisciplinary Research in Emotion, Neuroscience, and Development (TREND) Artist in Residence Program. Invited lecture for the Society for Contemporary Craft.
6. **Siegle, G.J.** (2010). What parts of depression are we treating? Emerging neuroscience and first insights from the “Clinician Accessible Neuroimaging (CAN)” project. *Norman S. Greenfield Memorial lecture*, University of Wisconsin, June, Madison, WI. Available web: <http://www.youtube.com/user/vbalchen>
7. **Siegle, G.J.** (2010). What aspects of depression are we treating: First insights from the Clinician Accessible Neuroimaging (CAN) Project. Workshop: *Advances in the Treatment of Mood Disorders*, March, Pittsburgh, PA.
8. **Siegle, G.J.** (2009). Neuroimaging and neural mechanisms that may be involved in Cognitive Therapy. *Research Forum: American Academy of Child and Adolescent Psychiatry*, November, Honolulu, Hawaii.
9. **Siegle, G.J.** (2009). Neuroimaging of Cognitive Behavioural Therapy for depression and anxiety: Towards personalized treatment, *European College of Neuropsychopharmacology*, September, Istanbul, Turkey.
10. **Siegle, G.J.** (2009). Using neuroscience in your practice. Workshop: *Advances in the Treatment of Mood Disorders*, March, Pittsburgh, PA.
11. **Siegle, G.J.**, Friedman, E. (2009). Combining therapy and medications. Workshop: *Advances in the Treatment of Mood Disorders*, March, Pittsburgh, PA.
12. **Siegle, G.J.**, Jones, N., Mandell, D., Lee, K. H., Silk, J., Thase, M.E. (2009). Using affective neuroscience to personalize treatment for unipolar depression: Intersections with social and personality psychology. Meeting of the Society for Personality and Social Psychology, Emotion Preconference. February, Tampa, FL.
13. **Siegle, G.J.** (2008). “Depressive rumination: From attentional mechanisms to clinical intervention.” Workshop: *Neurobiological Perspectives on Attention Processes related to Depression*, December, Ghent, Belgium.
14. **Siegle, G.J.** (2008). “Emotional reactivity in depression: From affective neuroscience to personalized treatment”, Joseph Zubin Memorial Award Lecture, Columbia University School of Medicine, May, New York
15. **Siegle, G.J.** (2007). Neuroscience of recovery from unipolar depression. Workshop: *Advances in the Treatment of Mood Disorders*, March, Pittsburgh, PA.
16. **Siegle, G.J.** (2006). Emotional reactivity in depression: From imaging to intervention. *Presentation at the Office of Behavioral and Social Sciences 10th Anniversary Celebration*. Bethesda Maryland.
17. **Siegle, G.J.** (2006). From fMRI to intervention for unipolar depression, *Samuel Sutton Lecture*, New York Psychiatric Institute, New York.
18. **Siegle, G.J.** (2005). From brain imaging to intervention: Sustained emotional reactivity in unipolar depression. Keynote Address to the *Japanese Society for Research on Emotions*, May, Nagoya, Japan.
19. **Siegle, G.J.** & Thase, M.E. (2004). Sustained emotional reactivity in depression: From brain activity to intervention. Workshop: *Cognitive and Affective Neuroscience and behavioral treatment development: New directions for translational research*, National Institute for Drug Abuse workshop, Bethesda, MD.
20. **Siegle, G.J.** (2004). From brain activity to intervention. Workshop: *Advances in the Treatment of Mood Disorders*, March, Pittsburgh, PA.
21. **Siegle, G.J.**, Steinhauer, S.R., Thase, M.E., Carter, C. S. (2002). *fMRI Correlates of Sustained Affective Information Processing in Depressed and Never-depressed Individuals*. Human Brain Mapping meeting, Sendai, Japan.
22. **Siegle, G. J.** (1998). *A neural network model of affective interference in depression*. International Workshop on Neural Network Models of Cognitive and Brain Disorders, College Park, MD.

Presentations and Published Abstracts

1. **Siegle, G.J.**, Bird, W., D’Andrea, W., Prause, N. (2013). Mobile high affect single subject EEG: From calibration to public database. In G. J. Siegle, (Chair). *Extreme psychophysiology: EEG*

- where you would least expect it. Symposium at the meeting of the Society for Psychophysiological Research, October, Florence, Italy.
2. Prause, N. & **Siegle, G.J.** (2013). Sexual arousal and orgasm as model reward systems for EEG study. In G. J. Siegle, (Chair). Extreme psychophysiology: EEG where you would least expect it. Symposium at the meeting of the Society for Psychophysiological Research, October, Florence, Italy.
 3. Buckalew, N., **Siegle, G.J.** (2013). EEG of everyday Yoga: Feasibility of assessing objective measures of the subjective experience of Yoga. In G. J. Siegle, (Chair). Extreme psychophysiology: EEG where you would least expect it. Symposium at the meeting of the Society for Psychophysiological Research, October, Florence, Italy.
 4. Gibb, B.E., Burkhouse, K.L., Hastings, P., **Siegle, G.J.** (2013). Synchronization of neural activity during parent-child interactions. In G. J. Siegle, (Chair). Extreme psychophysiology: EEG where you would least expect it. Symposium at the meeting of the Society for Psychophysiological Research, October, Florence, Italy.
 5. **Siegle, G.J.** (2013). Working memory training for depression: For whom does the bell toll? In N. Derakshan (Chair). Pathways to intervention: The impact and mechanisms of Working Memory Training, Symposium at the meeting of the Society for Psychophysiological Research, October, Florence, Italy.
 6. **Siegle, G.J.** (2013). Discussant. In K. Brinkmann (Chair). Impaired reward responsiveness in depression: Evidence, vulnerability, and implications. Symposium at the meeting of the Society for Psychophysiological Research, October, Florence, Italy.
 7. **Siegle, G.J.**, Prause, N. (2013). How is sex rewarding? Let us count the ways. Presentation at the *International Academy of Sex Research* (senior poster award).
 8. **Siegle, G.J.**, Price, R., Ghinassi, F., Hall, M., Callan, J. Calkins, A. (2012). New standards for neurobehavioral therapies to promote clinical application. In R. Price, (Chair). Principles of neurobehavioral change during cognitive training: Advancing personalized treatment by validating neural mechanisms. Symposium at the Meeting of the Association for Behavioral and Cognitive Therapies. November, National Harbor, MD.
 9. **Siegle, G.J.**, Horner, M., McMakin, D.L., Silk, J. S., Friedman, E. S. (2012). Positive affect in depression: Behavioral and neural dynamics. In J. Gruber (Chair). Positive emotion and reward dysregulation across disorders. Symposium at the Meeting of the Association for Behavioral and Cognitive Therapies. November, National Harbor, MD.
 10. **Siegle, G.J.**, Horner, M.S., Friedman, E.S. (2012). Behavioral and mechanistic effects of Cognitive Therapy on maintaining positive affect in depression. In J. Mohlman (Chair). Emotional contrast: Mood swings and the challenges they bring. Symposium at the Meeting of the Association for Behavioral and Cognitive Therapies. November, National Harbor, MD.
 11. **Siegle, G.J.**, Collier, A. (2012) Cognitive training for adolescent depression: A road map with new crossroads. In R. Weersing (Chair). Developing and testing innovative cognitive modification interventions for youth. Symposium at the Meeting of the Association for Behavioral and Cognitive Therapies. November, National Harbor, MD.
 12. Jones, N.P., **Siegle, G.J.** (2012). Problem-solving rumination in depression: Physiological and neural evidence for cognitive deficits rather than emotional reactivity. In A. Ruscio (chair) Repetitive negative thought: Innovative approaches for moving the science forward. Symposium at the Meeting of the Association for Behavioral and Cognitive Therapies. November, National Harbor, MD.
 13. Jones, N.P., **Siegle, G.J.** (2012). Exploring the biological underpinnings of problem-focused rumination: Identifying new targets for intervention. In P. Clasen (Chair) Modeling emotional dynamics in depression. Symposium at the Meeting of the Association for Behavioral and Cognitive Therapies. November, National Harbor, MD.
 14. Belleau, E., Larson, C.L., Jakubowski, E.J., **Siegle, G.J.** (2012). Working memory capacity influences the

- effectiveness of reappraisal emotion regulation strategies. Meeting of the Society for Psychological Research, September, New Orleans, LA.
15. Burkhouse, K. L., Gibb, B.E., **Siegle, G.J.**, McGeary, J.E. (2012). Pupillary reactivity to emotional stimuli in children: The role of maternal depression and aggregate genetic influence. Meeting of the Society for Psychological Research, September, New Orleans, LA.
 16. **Siegle, G.J.** (2012). Positive affect systems. Discussion in Developmental Affective Neuroscience meeting, September, Pittsburgh, PA.
 17. **Siegle, G.J.** (2011). The emotion and cognition clinic of the future. In Deveny, C. & **Siegle, G.J.** (Chairs). Psychophysiology, neuroimaging, and neuropsychology for the clinic: How close are we? Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
 18. **Siegle, G.J.**, Ichikawa, N., McFarland, A., Ladouceur, C., Silk, J., Dahl, R.E., Ryan, N. (2011). Understanding response to CBT for adolescent anxiety using fMRI. In Silk, J. & **Siegle, G.J.** (Chairs). Who gets better in individual CBT for child anxiety? Preliminary findings from the Child Anxiety Treatment Study. Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
 19. Paul, B.S., Jarrett, R.B., Thase, M.E., Friedman, E.S., **Siegle, G.J.** (2011). Physiological reactivity to negative thoughts in individuals who previously responded to Cognitive Therapy for depression. Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
 20. Burkhouse, K., Gibb, B.E., **Siegle, G.J.**, McGeary, J. (2011). Maternal criticism and emotional information processing: The moderating role of serotonergic aggregate genetic risk. Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
 21. Calkins, A.W., **Siegle, G.J.**, Otto, M.W. (2011). The effects of computerized cognitive control training on depressed adults. In A.W. Calkins (Chair). From cortex to context: New strategies and refined targets in the interventions of mood disorders. Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
 22. Collier, M., **Siegle, G.J.** (2011). Individual differences in response to prediction bias training in dysphoric individuals. In A.W. Calkins (Chair). From cortex to context: New strategies and refined targets in the interventions of mood disorders. Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
 23. Ladouceur, C.D., **Siegle, G.J.**, McFarland, A., Ichikawa, N., Silk, J., Dahl, R.E., Ryan, N.D. (2011). Psychophysiological correlates of error monitoring and Cognitive Behavioral Therapy in anxious youth. In Silk, J. & **Siegle, G.J.** (Chairs). Who gets better in individual CBT for child anxiety? Preliminary findings from the Child Anxiety Treatment Study. Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
 24. McMakin, D., Siegle, G.J., Silk, J., McFarland, A., Ladouceur, C., Forbes, E., Ryan, N.D., Dahl, R. E. (2011). Effects of CBT on engaging with a positive memory in anxious adolescents: Behavioral and neuroimaging indices. In S.E. Bruce (Chair). CBT for anxiety disorders: Utilization of neuroimaging as a treatment outcome tool. Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
 25. Ladouceur, C.D., Ichikawa, N., McFarland, A., **Siegle, G.J.**, Silk, J., Dahl, R.E., Ryan, N. (2011). Effects of psychotherapy on response monitoring ERPs in anxious youth. Meeting of the International Society for Research in Child and Adolescent Psychopathology, June, Chicago.
 26. Franzen P.L., Gianaros P.J., Marsland A.L., Hall M.H., **Siegle G.J.**, Dahl R.E., Buysse D.J. (2011): Sleepless nights and stressful days: Sleep deprivation and mental stress amplify surges in blood pressure. *Sleep*, 34S, A67. Presentation at the annual *SLEEP* meeting.
 27. **Siegle, G.J.**, Paul, B.S., Collier, M., Friedman, E.S., Thase, M.E. (2011). Towards clinically interpretable single-patient fMRI: Examining response to Cognitive Therapy of unipolar depression as an example. Presentation at the meeting of the Society for Biological Psychiatry, May, San Francisco.
 28. Mullin, B.C., Phillips, M.L., Siegle, G.J., Buysse, D. J., Forbes, E.E., Franzen, P.L., Elevated ventral striatal reactivity to reward following sleep deprivation. Presentation at the meeting of the Society for Biological Psychiatry, May, San Francisco.

29. Dombrovski, A. Y., **Siegle, G. J.**, Santo, K., Clark, L., Reynolds, C.F. (2011). Basal ganglia integrity, attempted suicide, and discounting of future rewards in late-life depression. Presentation at the meeting of the Society for Biological Psychiatry, May, San Francisco.
30. Oathes, D.J., **Siegle, G.J.**, Ray, W.J., Lambert, J., Schatzberg, A.F., Nitschke, J.B., & Etkin, A. (2011). Behavioral and physiological discrimination of generalized anxiety disorder from major depressive disorder. In D. Mennin & G. Hajcak (Chairs), Are GAD and MDD distinct? Utilizing laboratory methodologies to address diagnostic convergence and divergence. Symposium at the meeting of the Anxiety Disorders Association of America, New Orleans, LA., March.
31. Conner, O., McFarland, A., Ichikawa, N., Silk, J., Ladouceur, C., Ryan, N., **Siegle, G.J.** (2011). Mom – it helps when you’re right here! Attenuation of neural stress markers in anxious adolescents whose parents are present during fMRI. Presentation at the meeting of the *Anxiety Disorders Association of America*, March, New Orleans.
32. **Siegle, G.J.**, McFarland, A., Ichikawa, N., Ladouceur, C., Silk, J., Dahl, R. E., Ryan, N. (2011). Prediction of response to CBT for adolescent anxiety using fMRI. Presentation at the meeting of the *Anxiety Disorders Association of America*, March, New Orleans.
33. Mandell, D., **Siegle, G.J.**, Ichikawa, N., Ladouceur, C., Silk, J., Forbes, E., Ryan, N. (2011). Somatic awareness in anxious youth: Relating trait and state symptoms to neural mechanisms of threat processing. Presentation at the meeting of the *Anxiety Disorders Association of America*, March, New Orleans.
34. Ordaz, S., Montez, D., **Siegle, G.J.**, Luna, B. (2011). Developmental differences in arousal reactivity to unpredictable stimuli and effects on inhibitory control. NIMH Interdisciplinary Behavioral Science Center Conference on How do Executive Function and Emotion Interact, Boulder, CO, January.
35. Dandrea, W. & **Siegle, G.J.** (2010). Blunted affect: The other side of physiological reactivity in psychopathology. *Psychophysiology*, 48, S8-9. Describing W. D’Andrea & G. Siegle (Chairs) Blunted affect: The other side of physiological reactivity in psychopathology. Symposium presented at the 2011 Society for Psychophysiological Research meeting in Boston, MA.
36. **Siegle, G.J.**, Collier, M., Berman, S., Friedman, E. (2010). Differential mechanisms of response to Cognitive Therapy: Not all brains change the same. In R. De Raedt (Chair). Changing the underlying working mechanisms of depression: Unifying neurobiological, cognitive, and information processing perspectives. *Association for Behavioral and Cognitive Therapies*, San Francisco, November.
37. Jones, N., **Siegle, G.J.**, McFarland, A. (2010). Influences on appetitive motivation and emotion on cognitive functioning in depression. *Association for Behavioral and Cognitive Therapies*, San Francisco, November.
38. Hooley, J., **Siegle, G.J.** (2010). Perceived criticism and neural reactivity during a criticism challenge. In K. Peterson and D. A. Smith (Chairs). Contemporary conceptualizations of criticism in psychopathology and close relationships. *Association for Behavioral and Cognitive Therapies*, San Francisco, November.
39. **Siegle, G. J.** (2010). Discussion. In P. Goldin (Chair). Psychological and neural mechanisms of mindfulness-based stress reduction training. *Association for Behavioral and Cognitive Therapies*, San Francisco, November.
40. McMakin, D., Silk, J., **Siegle, G.J.**, Dahl, R.E.(2010). Activating and sustaining positive affect in adolescent depression: A new module based on affective neuroscience. *Association for Behavioral and Cognitive Therapies*, San Francisco, November.
41. **Siegle, G.J.**, Silk, J., Friedman, E., Thase, M. (2010). Is more because of less? Brain mechanisms of decreased pupillary reactivity in depression. In. N. Patten & J. Thayer, *Looking up and down the brain: Is the heart forever making the head its fool?* Symposium at the meeting of the Society for Psychophysiological Research, Portland, OR, September.
42. **Siegle, G.J.**, Silk, J., Burkhouse, K., Joyce, E., Dahl, R.S. (2010). Seeing eye to eye: Concurrent pupillary reactivity during mother-child interactions. Presentation at the meeting of the Society for Psychophysiological Research, Portland, OR, September.
43. Steinhauer, S.R., Clarke, A.L., **Siegle, G.J.**, Condray, R., Chakraborty, B.H. (2010). Reduced pupillary oscillations in schizophrenia and depression suggest central parasympathetic deficit. Presentation at the meeting of the Society for Psychophysiological Research, Portland, OR, September.

44. Chakraborty, B.H., **Siegle, G.J.**, Condray, R., Clarke, A.L., Sheppard, J.C., Steinhauer, S.R. (2010). Pupillary responses during digit span under light and darkness in psychiatric patients. Presentation at the meeting of the Society for Psychophysiological Research, Portland, OR, September.
45. Condray, R., **Siegle, G.J.**, Steinhauer, S.R. (2010). Semantic memory and word frequency modulate N400 in the family members of schizophrenia patients. In G. E. Bruder & J. Kayse (Chairs), *Beyond the oddball in schizophrenia research: Neurophysiologic studies of memory and language processing*. Symposium at the meeting of the Society for Psychophysiological Research, Portland, OR, September.
46. **Siegle, G.J.**, Mandell, D., Friedman, E. (2010). Going down: Brain mechanisms of rumination before and after Cognitive Therapy for depression. Presentation at the World Congress of Behavioral and Cognitive Therapies, Boston, June.
47. Callan, J.A., **Siegle, G.J.**, Dey, A.K., Spring, M., Rotondi, A. and Dunbar-Jacob, J. (2010). Barriers to CBT Homework: Identification of the problem and a potential technology-enhanced solution (CBT MobileWork). Presentation at the World Congress of Behavioral and Cognitive Therapies, Boston, June.
48. **Siegle, G.J.**, Friedman, E. (2010). Temporal dynamics of prefrontal responses to emotion following response to antidepressant and cognitive behavioral therapies for unipolar depression. Presentation at the meeting of the Society for Biological Psychiatry. New Orleans, May.
49. **Siegle, G.J.**, Friedman, E., Thase, M.E. (2010). Initial exploration of an fMRI-based algorithm for selecting patients into treatment with Cognitive Behavior Therapy (CBT) and antidepressants. Presentation at the meeting of the Society for Biological Psychiatry. New Orleans, May.
50. Clark, L., Dombrovski, A. Y., **Siegle, G.J.**, Butters, M.A., Shollenberger, C. L., Sahakian, B. J., Szanto, K. (2010). Older suicide attempters bet on unlikely gambles. Presentation at the meeting of the Society for Biological Psychiatry. New Orleans, May.
51. Dombrovski, A.Y., Szanto, K., Clark, L., Reynolds, C.F., **Siegle, G.J.** (2010). Older suicide attempters fail to represent choice consequences: Computational model-based fMRI study. Presentation at the meeting of the Society for Biological Psychiatry. New Orleans, May.
52. Paul, B., Thase, M.E., **Siegle, G.J.** (2010). Neural predictors of depressive relapse following Cognitive Therapy. Presentation at the meeting of the Society for Biological Psychiatry. New Orleans, May.
53. Mandell, D., **Siegle, G.J.**, Ichikawa, N., Ladouceur, C., Silk, J., Dahl, R.E., Ryan, N. (2010). Somatic awareness in anxious youth: Relating self-reported symptoms to neural mechanisms of threat processing. *Wisconsin Symposium on Emotion*, April, Madison.
54. **Siegle, G.J.**, (2010) Perspectives on behavior change from computational neural networks (of psychopathology): Brilliant past, neglected present, hopeful future. Presentation at the Office of Behavioral and Social Sciences meeting *Applying Complex Systems Approaches to the Processes of Behavior Change -A First Conversation*, Ann Arbor, January.
55. Steinhauer, S.R., **Siegle, G.J.**, Condray, R., Chakraborty, B.H., and Clarke, A.L. (2009). Pupillary dilation indices of working memory dysfunction reflect greater impairment for schizophrenia than for depression or alcohol use disorders. American College of Neuropsychopharmacology, December, Hollywood, Fl.
56. **Siegle, G.J.**, Friedman, E.S., Paul, B.S., Ramel, W. (2009). A new animal: Brain function post-Cognitive Therapy for depression is unlike never-depressed or depressed adults. In Kober, H. (Chair) Neural mechanisms of cognitive change. Symposium at the meeting of the Association for Behavioral and Cognitive Therapies, November, New York.
57. **Siegle, G.J.**, Silk, J., Forbes, E., Friedman, E.S., Dahl, R.E., Ryan, N.D. (2009). Functional neuroimaging predictors of treatment response for depression through the lifespan. In Silk, J. Multilevel predictors of treatment response in child Anxiety and depression (Chair) Neural mechanisms of cognitive change. Symposium at the meeting of the Association for Behavioral and Cognitive Therapies, November, New York.
58. Mandell, D., **Siegle, G.J.**, Thase, M.E (2009). Depressive rumination and brain mechanisms of self-focus and regulation. In LeMoult, J. (Chair). Emotion dysregulation and rumination in depression: Underlying mechanisms and treatment implications. Symposium at the meeting of the Association for Behavioral and

- Cognitive Therapies, November, New York.
59. **Siegle, G.J.**, Horner, M. S., Friedman, E. (2009). Continuous changes in affect following a discrete stimulus: Relationships of multiple behavioral indices to psychophysiology and brain imaging data in healthy and depressed adults". Meeting of the Society for Psychophysiological Research. November, Berlin.
 60. **Siegle, G.J.** (2009). Differential considerations for CBT in adults and adolescents: Perspectives from affective neuroscience. In Szigethy (Chair). Innovative applications of Cognitive Behavioral Therapy in pediatric populations. Symposium at the *American Academy of Child and Adolescent Psychiatry*, November, Honolulu, Hawaii.
 61. Horner, M.S., **Siegle, G.J.**, Silk, J., Szigethy, E. Ichikawa, N., Forbes, E.E., Friedman, E.S., Dahl, R.E., Ryan, N.D. (2009). Assessment of positive affect in depression through the lifespan. Presentation at the *American Academy of Child and Adolescent Psychiatry*, November, Honolulu, Hawaii.
 62. **Siegle, G.J.**, Silk, J.S., Joyce, E., Burkhouse, K., Dahl, R.E. (2009). Seeing eye to eye: First examinations of concurrent pupillary reactivity during mother-child interactions. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 63. Silk, J. S., Dahl, R.E., Ryan, N.D., **Siegle, G.J.** (2009). Pupil dilation to affective words as a marker of risk for early onset depression. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 64. Buckalew, N., **Siegle, G.J.**, Haut, M.W., Aizenstein, H., Morrow, L. Subashan, P., Weiner, D. (2009). Is pupillary response an objective bio-marker for disability and brain dysfunction in older adults with chronic low back pain? Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 65. Chakraborty, B.H., **Siegle, G.J.**, Condray, R., Clarke, A.L., Steinhauer, S.R. (2009). Pupillary responses during digit span under light and darkness in psychiatric patients. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 66. Collier, A.L., **Siegle, G.J.** (2009). Examining the effects of cognitive task training on dysphoria. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 67. Franzen, P.L., Durya, D.N., **Siegle, G.J.** (2009). Sleep deprivation increases pupillary reactivity to negative emotional information in healthy young adults. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 68. Ichikawa, N., Silk, J.S., Ladouceur, C., Dahl, R.E., Ryan, N.S., **Siegle, G.J.** (2009). Pupil dilation as an index of reactivity to errors in early adolescence. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 69. Jain, S., **Siegle, G.J.**, Studenski, S., Greenamyre, J.T., Steinhauer, S. R. (2009). Sympathetic, parasympathetic and medication effects on pupil reactivity to light in Parkinson disease. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 70. Jones, N.P., Stepp, S.D., **Siegle, G.J.**, Pilkonis, P. A. (2009). Features of Borderline Personality Disorder and pupil reactivity while viewing emotional faces. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 71. Steinhauer, S.R., **Siegle, G.J.**, Condray, R. (2009). Working memory and pupillary dilation: Impairments in schizophrenia, depression, and alcohol-related disorders. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 72. Wong, T.S., Schunn, C., **Siegle, G.J.** (2009). Catching the 'Aha!' moments in puzzle problems using pupillometry and blinks analyses. Presentation at the 28th Annual International Pupil Colloquium. August, Pittsburgh, PA.
 73. Paul, B. Thase, M.E., **Siegle, G.J.** (2009). Use of fMRI to predict relapse into unipolar depression after Cognitive Therapy. Presentation at the meeting of the Organization for Human Brain Mapping, June, San Francisco.
 74. Barber, A. D., Thompson, W., Friedman, E., Dahl, R. E., Ryan, N.D., **Siegle, G. J.** (2009). Default network effective connectivity. Developmental differences between adolescents and adults. Presentation at the meeting of the Organization for Human Brain Mapping, June, San Francisco.

75. Thompson, W., Barber, A.D., **Siegle, G.J.** (2009). A Bayesian Sparse Vector Autoregressive Model for Resting State Connectivity Analyses. Presentation at the meeting of the Organization for Human Brain Mapping, June, San Francisco.
76. Polizzoto, N., Zhou, D., Thompson, W., **Siegle, G.J.** (2009). Functional Connectivity Breakdown in Hypnosis: an fMRI “multiple resting-states” study. Presentation at the meeting of the Organization for Human Brain Mapping, June, San Francisco.
77. Lee, K. H., Schneider, W., McHugo, M., Goldin, P., **Siegle, G.J.** (2009). Emotional valence modulates relationships of amygdala and periaqueductal gray(PAG) activity. Presentation at the meeting of the Organization for Human Brain Mapping, June, San Francisco.
78. Mandell, D., Thase, M.E., **Siegle, G.J.** (2009). Brain mechanisms of depressive rumination. Presentation at the meeting of the Organization for Human Brain Mapping, June, San Francisco.
79. **Siegle, G.J.**, Friedman, S., Steinhauer, S.R., Thase, M.E., (2009). Prediction of recovery from recurrent unipolar depression in Cognitive Therapy with pupil dilation: Application and brain mechanisms. Presentation at the meeting of the Society for Biological Psychiatry. May, Vancouver, Canada.
80. Dombrovski A.Y., Szanto K., **Siegle G.J.**, Clark J. (2009). Suicidal Elderly Discount Future Rewards. Presentation at the meeting of the Society for Biological Psychiatry. May, Vancouver, Canada.
81. **Siegle, G.J.**, Friedman, E.S., Steinhauer, S.R., Carter, C.S., Thase, M.E. (2008). Association of cognitive and neural mechanisms of rumination with response in Cognitive Therapy for recurrent unipolar depression in the Relapse Prevention trial. In R. Jarret (Chair). *Cognitive therapy relapse prevention trial (CTRP): Early findings*. Symposium at the meeting of the Association for Behavioral and Cognitive Therapy. November, Orlando, Fl.
82. Callan, J.A., Friedman, E.S., **Siegle, G.J.**, Thase, M.E., Jarrett, R., Minhajuddin, A. (2008). Predictors of acute phase outcomes in the Prophylactic Cognitive Therapy for Recurrent Depression Study. In R. Jarret (Chair). *Cognitive therapy relapse prevention trial (CTRP): Early findings*. Symposium at the meeting of the Association for Behavioral and Cognitive Therapy. November, Orlando, Fl.
83. Jones, N.P., **Siegle, G.J.**, Muelly, E., Haggerty, A., Ghinassi, F., Thase, M.E. (2008). The effect of rumination and depression on task-focus and performance during executive processing. Presentation at the meeting of the Association for Behavioral and Cognitive Therapy. November, Orlando, Fl.
84. Borrebach, J., Ryan, P., Haggerty, A., Cesare, M., Blazin, L., Bruder, G., Thompson, W., Thase, M.E., **Siegle, G.J.** (2008). Dichotic listening: Relationships to depression, treatment outcome, and brain function. Presentation at the meeting of the Association for Behavioral and Cognitive Therapy. November, Orlando, Fl. **Note:** First place, NeuroCognitive Therapies student poster session.
85. **Siegle, G.J.**, (2008). Discussion. In A.K. Roy (Chair) *Changing thoughts, behaviors, and the brain: fMRI approaches to the study of cognitive-behavioral treatments for anxiety disorders*. Symposium at the meeting of the Association for Behavioral and Cognitive Therapy. November, Orlando, Fl.
86. **Siegle, G.J.**, (2008). Discussion. In T. Strauman (Chair). Mechanisms of action in treatments for depression: functional MRI studies of IPT, CT, and pharmacotherapy. Symposium at the meeting of the Association for Behavioral and Cognitive Therapy. November, Orlando, Fl.
87. Siegle, G.J. (2008). Where our eyes don't go. Presentation at *Bring Your Own Powerpoint*, a community event organized by *Encyclopedia Destructiva*, Pittsburgh, November.
88. **Siegle, G.J.** (2008). “Emotional information processing studies.” Invited presentation to the Wellcome Trust meeting *Understanding disorders of the mind through neuroimaging: Developing new paradigms*. September, London, UK.
89. **Siegle, G.J.**, Thompson, W.S., Zhou, D., Jones, N., Steinhauer, S., Friedman, E. (2008). Emotion/cognition interactions: Added clinical utility or just the sum of their parts? In G. Hajcak (Chair). From the chaos of thought and passion: Multiple perspectives on emotion-cognition interactions. Meeting of the Society for Psychophysiological Research. September, Austin, TX.
90. Zhou, D., Thompson, W.S., **Siegle, G.J.** (2008). Matlab toolbox for functional connectivity. Meeting of the Society for Psychophysiological Research. September, Austin, TX.
91. Jones, N. P., **Siegle, G.J.**, Muelly, E.R., Haggerty, A., Ghinassi, F., Thase, M.E. (2008). Pupillary correlates of rumination during a frustrating serial working memory task in unipolar depression. Meeting

- of the Society for Psychophysiological Research. September, Austin, TX.
92. **Siegle, G.J.**, Horner, M., Ramel, W., Paul, B. S., Friedman, E. (2008). Assessing dynamic mood variation before, during, and after Cognitive Therapy for Depression. In J. Nitschke. (Chair). Temporal dynamics of neural processes in anxiety and depression. Meeting of the Society for Research in Psychopathology. September, Pittsburgh, PA.
 93. Szigethy E.M., **Siegle G.J.**, Silk J, Stocco A, Blazin L, Dahl R.E., (2008). Brain fMRI in Youth with Active IBD and Depression, NIH Pioneer Award Symposium, April, Bethesda, MD.
 94. **Siegle, G.J.**, Thompson, W., Zhou, D., Thase, M. E., (2008). Cognitive therapy of unipolar depression. In **Siegle, G.J.**, Functional connectivity in depression and social phobia: Clinical implications. Workshop at the Society of Biological Psychiatry, April, Washington, D.C.
 95. Silk, J. S., **Siegle, G. J.**, & Dahl, R. E., Ryan, N. D., Forbes, E. E., Fisher, P. M., Williamson, D. E., Birmaher, B., Axelson, D. A., & Hariri, A. R. (2008). From scanners to cell-phones: fMRI brain activity is linked to ecological momentary assessment of emotion in adolescent daily life. Paper presented at the Biannual Meeting of the Society for Research in Adolescence. March, Chicago, IL.
 96. **Siegle, G.J.**, Thompson, W., Horner, M.S., Carter, C.S., Thase, M.E. (2007). Neural mechanisms of executive control in unipolar depression: Relationships to emotional reactivity and recovery in Cognitive Behavior Therapy. In A. Weissman, *Executive function: From basic research to clinical practice*. Symposium at the meeting of the Association for Behavioral and Cognitive Therapies, November, Philadelphia, PA.
 97. **Siegle, G.J.**, Jones, N., Franzen, P., Fincham, J., Muelly, E., Haggerty, A., Ghinassi, F., Thase, M.E. (2007). Mechanisms of change in an automated adjunctive cognitive control training intervention for severe depression: Changes in physiological reactivity during the intervention. In Dekersbach, T. & Mohlman, J. *Neurocognitive therapies: Novel approaches to treating psychiatric disorders*. Symposium at the meeting of the Association for Behavioral and Cognitive Therapies, November, Philadelphia, PA.
 98. **Siegle, G.J.**, Jones, N., Franzen, P., Thase, M.E. (2007). Quantifying dynamic variation in pupil diameter: Examples in healthy, sleep deprived, and depressed individuals. Presentation at the 27th Annual Pupil Colloquium. October, Hamamatsu, Japan.
 99. **Siegle, G.J.**, Ichikawa, N., Steinhauer, S. (2007). Blink before and after you think: Blinks occur prior to and following cognitive load indexed by pupillary responses. Presentation at the 27th Annual Pupil Colloquium. October, Hamamatsu, Japan.
 100. Szigethy, E., **Siegle, G.J.**, Silk, J. S., Hardy, D., Blazin, L., Frazer, L., Dahl, R E (2007). Neurobiological effects of steroids in youth with inflammatory bowel disease. Meeting of the American Academy of Child and Adolescent Psychiatry (AACAP), Boston, October.
 101. Brewer, L., Quirk, S., VanOchten, C., **Siegle, G. J.** (2007). Emotional Reactivity and Social Oddness in Schizotypal Individuals. Meeting of the Society for Physiological Research, October, Atlanta.
 102. **Siegle, G.J.**, Schneider, W.S., McHugo, M., Thomas, M., Koerbel, L., Gemmer, L., Fissell, K., Pathak, S., Jones, D. (2007). Inferring Experience Based Cognition from Virtual Reality fMRI. RESULTS! In G. Siegle and W. Schneider, Pittsburgh Brain Activity Interpretation Competition. Workshop at the meeting of the Organization for Human Brain Mapping, Chicago, IL, June.
 103. Ichikawa, N., Kamishima, K., Thompson, W., Gross, J.J., **Siegle, G. J.** (2007). Brain correlates of cognitive and emotional reactivity to errors. Presentation at the meeting of the Organization for Human Brain Mapping, Chicago, IL, June.
 104. Lee, K. H., Schneider, W., McHugo, M., Goldin, P., **Siegle, G.J.** (2007). The neural structures associated with emotional valence and arousal induced by emotional movies. Presentation at the meeting of the Organization for Human Brain Mapping, Chicago, IL, June.
 105. Horner, M.S., Aizenstein, H. J., Thase, M. E., **Siegle, G. J.** (2007). Functional brain correlates of dynamic mood changes in depression: On the path to happiness. Presentation at the meeting of the Organization for Human Brain Mapping, Chicago, IL, June.
 106. Schneider, W., Yothers, T., Brauch, K., Gemmer, L., Fissell, K., McHugo, M., **Siegle, G. J.** (2007). Dynamic VR exploration based fMRI with automatic visual object coding and brain activity mapping. Presentation at the meeting of the Organization for Human Brain Mapping, Chicago, IL, June.

107. **Siegle, G. J.**, Silk, J.S., Dahl, R.E., Ryan, N., Birmaher, B., Axelson, D., Hariri, A. R. (2007). Subgenual cingulate activity is linked to problems in emotion regulation in the daily lives of adolescents with depression and anxiety. Meeting of the Society of Biological Psychiatry, May, San Diego, CA.
108. Horner, M., Thase, M.E., **Siegle, G. J.** (2007). Functional brain correlates of dynamic mood changes in depression: Is getting there the same as being there? Meeting of the Society of Biological Psychiatry, May, San Diego, CA.
109. Lee, K.H., Schneider, W. S., Mchugo, M., **Siegle, G.J.** (2007). fMRI correlates of emotional appraisal. Meeting of the Cognitive Neuroscience Society, New York, May.
110. **Siegle, G.J.**, Steinhauer, S. R., Thase, M.E. (2006). fMRI correlates of prolonged psychophysiological activity to emotional information. In T. Johnstone (Chair). Peripheral psychophysiology in brain imaging: From maps to function. Meeting of the Society for Psychophysiological Research, Vancouver, BC, October.
111. Ichikawa, N., **Siegle, G.J.**, Nomura, M., Iidaka, T., Ohira, H. (2006). Effects of emotional and nonemotional error feedback on brain and cardiac reactivity. Meeting of the Society for Psychophysiological Research, Vancouver, BC., October ,
112. Steidtmann, D., Ingram, R.E., & **Siegle, G.** (2006). Pupillary Assessment of Negative Information in Depression Vulnerability. Meeting of the Society for Research in Psychopathology, San Diego, October.
113. Tamburo, R., **Siegle, G.**, Stetten, G., Cois, C.A., Reynolds, C., Aizenstein H. (2006). Amygdala Shape Morphometry in Late-Life Depression. Science 2006, Pittsburgh, October.
114. Tamburo, R., **Siegle, G.**, Stetten, G., Cois, C.A., Reynolds, C., Aizenstein H. (2006). Amygdala Shape Morphometry in Late-Life Depression. Celebrating Research on Aging: Building Collaborations for the Future, Pittsburgh, October.
115. Condray, R., Steinhauer, S. R., **Siegle, G.J.** (2006). The construction of linguistic meaning in schizophrenia, Meeting of the EEG and Clinical Neuroscience Society, Boston, September.
116. Steinhauer, S.R., **Siegle, G.J.**, Condray, R., Gurklis, J. (2006). Pupil dilation during sustained processing: An indicator of intact effortful processing in schizophrenia. Meeting of the world congress of psychophysiology. Istanbul, August.
117. Fincham, J. & **Siegle, G.J.** (2006). Modeling mechanisms that differentiate healthy and depressed individuals: The Paced auditory serial attention task. 13th Annual ACT-R Workshop. Pittsburgh, July.
118. **Siegle, G.J.**, Schneider, W.S., McHugo, M., Gemmer, L., Jones, D. Fissell, K. (2006). Inferring Experience Based Cognition from fMRI. RESULTS! In W. Schneider and G. Siegle, Pittsburgh Brain Activity Interpretation Competition. Workshop at the Organization for Human Brain Mapping, Florence, Italy, June.
119. **Siegle, G. J.**, Gotlib, I. H., Whalen, P. J., Lee, K. H., Thase, M. E. (2006). A little emotion goes a long way: Increased amygdala responses to momentary emotional stimuli but blunted responses to repeated stimuli in unipolar depression. Meeting of the Society of Biological Psychiatry, Toronto, May. *Biological Psychiatry*, 59, 9S 26 Suppl.
120. Silk, J. S., **Siegle, G. J.**, Dahl, R. E. (2006). Pupil Dilation as a Measure of Emotional Processing in Child and Adolescent Depression. Meeting of the Society for Research on Adolescence, San Francisco, April.
121. **Siegle, G.J.**, Steinhauer, S., Carter, C.S., Thase, M.E. (2006). Neural correlates of cardiac reactivity during emotional information processing in unipolar depression: A tale of 3 cingulates. In P. Gianaros (Chair). Neuroimaging of autonomic-cardiac reactivity in health and disease. Symposium at the meeting of the American Psychosomatic Society, March. Denver, CO.
122. **Siegle, G.J.**, Muelly, E., Haggerty, A., Ghinassi, F., Thase, M.E. (2005). From brain activity to intervention: Initial data from an automated cognitive control training intervention for severe depression. In W. Ramel and J. Joorman (Chairs). Mood disorders and vulnerability: Linking cognitive, affective, and neurobiological perspectives through fMRI. Symposium at the Association for the Advancement of Behavior Therapy, November, Washington, D.C.

123. Condray, R., Steinhauer, S. R., **Siegle, G. J.** (2005). Semantic memory in schizophrenia. Presentation at the meeting of the Society for Psychophysiological Research, September, Lisbon, Portugal.
124. **Siegle, G. J.** (2005). *Discussant*. In L. Onken and D. Shurtleff (Chairs) NIDA symposium “Neurobiological Aspects of Drug Addiction: Implications for Treatment”, Meeting of the American Psychological Association, August, Washington, D.C.
125. **Siegle, G. J.**, Steinhauer, S. R., Thase, M.E. (2005). Using pupil dilation and fMRI of emotional information processing to predict recovery in cognitive behaviour therapy (CBT) for depression. Presentation at the 26th International Pupil Colloquium, August, Bear Mountain, New York.
126. Silk, J.S., **Siegle, G.J.**, Dahl, R.E. (2005). Pupil dilation as a measure of emotional processing in child and adolescent depression. Presentation at the 26th International Pupil Colloquium, August, Bear Mountain, New York.
127. Steinhauer, S.R., **Siegle, G.J.**, Condray, R., Barnett, B.E., Gurklis, J.A. (2005). Pupil dilation during a sustained processing task implicates intact effortful processing in schizophrenia. Presentation at the 26th International Pupil Colloquium, August, Bear Mountain, New York.
128. Franzen, P.I., Buysse, D. J., Duryea, D.N., **Siegle, G.J.** (2005). Pupillography and the assessment of neurobehavioural consequences of sleep deprivation. Presentation at the 26th International Pupil Colloquium, August, Bear Mountain, New York.
129. Chew, M.L., Steinhauer, S. R., **Siegle, G. J.**, Bies, R. R., Pollock, B. G. (2005). Does the pupillary response to anticholinergic drugs correspond to serum anticholinergic activity? A hypothesis and proposed experiment. Presentation at the 26th International Pupil Colloquium, August, Bear Mountain, New York.
130. **Siegle, G.J.**, Hariri, A., Thase, M.E. (2005). Sustained emotional reactivity in unipolar depression: From cognitive neuroscience to genetics. In Phillips, M. (Chair). *Examining Genetic Influences upon Frontal and Sensory Cortico-Limbic Connectivity in Mood-Disordered Individuals: Can We Determine Distinct Neuroendophenotypes?* Symposium at the meeting of the Society for Biological Psychiatry, May, Atlanta. *Biological Psychiatry*, 57, 143S-144S. Suppl.
131. **Siegle, G.J.**, Thomson, W., Carter, C. S., Thase, M.E. (2005). Depression involves increased amygdala and decreased prefrontal activity. Both predict recovery. Presentation at the meeting of the Cognitive Neuroscience Society. April, New York City.
132. Lee, K. H., **Siegle, G. J.** (2005). Different neural networks underlying emotional processing with emotional faces and faces augmented by context. Presentation at the meeting of the Cognitive Neuroscience Society. April, New York City.
133. Steinhauer, S.R., Condray, R., **Siegle, G.J.**, Gurckles, J. A. (2005). Cognitive Inhibition of the Pupillary Light Reaction in Schizophrenia and Alcoholism: Physiological Evidence for Effortful Processing. Presentation at the International Congress for Schizophrenia Research, April, Savannah, GA. *Schizophrenia Bulletin*, 31(2), 378.
134. **Siegle, G. J.**, Silk, J., Steinhauer, S.R., Dahl, R. E., Carter, C. S., Thase, M.E. (2004). Sustained pupil dilation to emotional information in depression: Developmental and mechanistic considerations. In S. Steinhauer (Chair) Pupil Dilation, Psychopathology, and Development. Meeting of the Society for Psychophysiological Research. October, Sante Fe. *Psychophysiology*, 41 S9.
135. Silk, J.S., **Siegle, G. J.**, Dahl, R.E., Jakubcak, J.L. (2004). Pupil dilation to emotional words in pediatric affective disorder. Meeting of the Society for Psychophysiological Research. October, Sante Fe. *Psychophysiology*, 41 S84
136. Ravizza, S.M., **Siegle, G.J.**, Delgado, M.R., Fiez, J.A. (2004). Cross-talk functions of the dorsal caudate. Meeting of the Society for Neuroscience, October, San Diego.
137. Haggerty, A.E., Muelly, E. R., Konecky, R.O., Dahl, R.E., Thase, M.E., Aizenstein, H.A., **Siegle, G.J.** (2004). Amygdala volume in children and adults with unipolar depression. Meeting of the Society for Neuroscience, October, San Diego.
138. Larson, C. L., **Siegle, G. J.**, Burghy, C. A., Anderle, M. J., & Davidson, R. J. (2004). Computational Modeling of the Time Course of the Amygdalar BOLD Response in Specific Phobia.

- Meeting of the Organization for Human Brain Mapping, July, Budapest.
139. **Siegle, G.J.**, Condray, R., Steinhauer, S.R., Penkrot, V., Thase, M.E. (2004). *Sustained gamma-band EEG activity in response to emotional information in depression and schizophrenia*. Meeting of the Cognitive Neuroscience Society, April, San Francisco, CA.
 140. Lee, K.H., **Siegle, G.J.** (2004). More than just a pretty face? Subjective emotionality and physiological reactivity to faces and faces augmented by context. Meeting of the Cognitive neuroscience Society, April, San Francisco, CA.
 141. **Siegle, G.J.**, Steinhauer, S.R., Condray, R., Carter, C.S., Thase, M.E., (2004). *Rumination in depression: Controlled or Automatic?* In C. Papageorgiou and A. Wells (Chairs). "Rumination in Depression: Nature and Consequences." Meeting of the British Psychological Society, April, London, England.
 142. Steinhauer, S.R., **Siegle, G.J.**, Condray, R. Disruption of the temporal course of central inhibition in schizophrenia as reflected by the pupillomotor system. Meeting of the Society of Biological Psychiatry. April. *Biological Psychiatry*, 55, 225S-801 Suppl.
 143. Konecky, R.O., Carter, C.S., Thase, M.E., **Siegle, G.J.** (2003). *Relationships between amygdala activity and volume in depressed and never depressed individuals*. Meeting of the Society for Neuroscience, November, New Orleans, LA.
 144. **Siegle, G.J.**, Steinhauer, S.R., Carter, C.S., Thase, M.E. (2003). *Sustained Processing on the Stroop Task in Depression*. Meeting of the Society for Psychophysiological Research. November, Chicago, IL. *Psychophysiology*, 40, S79.
 145. **Siegle, G.J.**, Larson, C., Farace, L. Aizenstein, H., Smith, B., Thase, M.E. (2003). *Differences in pupil dilation associated with emotion regulation in depressed and never-depressed individuals*. Meeting of the Society for Psychophysiological Research. November, Chicago, IL. *Psychophysiology*, 40, S42.
 146. Gianaros, P.J., **Siegle, G.J.**, May C.J., Jennings, J.R. (2003). *Exaggerated cardiovascular reactivity to stress relates to hyperactivation of the anterior cingulate cortex in humans*. Meeting of the Society for Psychophysiological Research. November, Chicago, IL.
 147. Steinhauer, S.R., Condray, R., **Siegle, G.J.** (2003). *Psychophysiological Evidence for Timing Dysfunction in Schizophrenia and Depression*. Meeting of the Society for Research in Psychopathology, October, Toronto, ON, Canada.
 148. Steinhauer, S.R., Condray, R., **Siegle, G.J.**, Magee, K., Yanuzo, A., Zelkowski, K. (2003). *They Try Harder: Pupillometric Indicators of Effortful Processing in Schizophrenia*. Meeting of the Society for Research in Psychopathology, October, Toronto, ON, Canada.
 149. **Siegle, G.J.**, Steinhauer, S.R., Thase, M.E., Carter, C. S. (2003). *Concurrent pupil dilation and fMRI assessment: Applications to understanding information processing in healthy and depressed individuals*. 25th International Pupil Colloquium, September, Chania, Crete.
 150. Steinhauer, S. R., **Siegle, G.J.**, Condray, R. (2003). *Cognitive and motor inhibition of the pupillary light reaction in schizophrenia and alcohol use disorders: Evidence for effortful processing in the parasympathetic pathway*. 25th International Pupil Colloquium, September, Chania, Crete.
 151. **Siegle, G.J.**, Steinhauer, S.R., Konecky, R., Thase, M.E., Carter, C. S. (2003). *Use of concurrent pupil dilation and fMRI assessment to understand working memory impairment in depression*. Meeting of the Organization for Human Brain Mapping, June, New York.
 152. **Siegle, G.J.**, Steinhauer, S.R., Condray, R., Thase, M.E., Carter, C. S. (2003). *Depressive rumination: Effortful or automatic?* WPIC Research Day, June, Pittsburgh.
 153. **Siegle, G.J.**, Steinhauer, S.R., Konecky, R., Thase, M.E., Carter, C. S. (2003). *Depressive rumination: Effortful or automatic? An fMRI study*. Meeting of the Cognitive Neuroscience Society, April, New York, NY.
 154. **Siegle, G.J.**, Steinhauer, S.R., Carter, C.C., and Thase, M.E. (2002). *Do the seconds turn into hours? Relationships between sustained physiological processing of emotional information, rumination, and worry in depressed and never-depressed individuals*. In G. Feldman and D. Fresco (Chairs), *Worry and Rumination: Common Features, Distinctions, and Alternatives*. Meeting of the Association for the Advancement of Behavior Therapy. Reno, NV.

155. **Siegle, G.J.**, Steinhauer, S.R., Carter, C.C., Konecky, R.O., and Thase, M.E. (2002). Who's on last? Pupil dilation and fMRI assessment of inhibition between cognitive and emotional processing in depressed and healthy individuals. Presentation at the meeting of the Society for Psychophysiological Research. Washington, D.C.. *Psychophysiology*, 39, S76.
156. Condray, R., Steinhauer, S.R., **Siegle, G.J.** (2002). The time course of word frequency and semantic context effects during incidental priming: An ERP study. Presentation at the meeting of the Society for Psychophysiological Research. Washington, D.C.. *Psychophysiology*, 39, S13.
157. Steinhauer, S.R., **Siegle, G.J.**, Condray, R., Carter, C.C., and Thase, M.E. (2002). Pupillary dilation, cognition, and psychiatric disorder: Insights to brain function. In E. Granholm (Chair). *Pupillometry and Cognition in Schizophrenia and Depression*. Symposium at the 11th World Congress of Psychophysiology. Montreal. *International Journal of Psychophysiology*, 45, 43.
158. Condray, R., Steinhauer, S.R., Cohen, J.D., van Kammen, D.P., **Siegle, G. J.**, Kasperek, A. (2002). Automatic activation in schizophrenia: N400 elicited by short ISIs. Meeting of the Society of Biological Psychiatry, Philadelphia, PA. *Biological Psychiatry*, 51, 112S.
159. **Siegle, G.J.**, Moore, P., Steinhauer, S. R., Thase, M.E., Henderson, R., Carter, C.S. (2002). Rumination and the Brain: fMRI correlates of self-reported rumination in individuals with depression, anxiety, and Systemic Lupus Erythematosus, In N. Christenfeld (Chair). Rumination, forgiveness, and the impact of thoughts on health. Meeting of the Society of Behavioral Medicine, Washington, D.C. *Annals of Behavioral Medicine*, 24, S194.
160. **Siegle, G.J.**, Konecky, R.O., Steinhauer, S.R., Thase, M.E., Carter, C. S. (2002). *Relationships between amygdala activity and volume during emotional information processing in depressed and never-depressed individuals*. WPIC Research Day, June, Pittsburgh.
161. **Siegle, G. J.**, Konecky, R. O., Steinhauer, S.R., Thase, M.E., Carter, C. S. (2002). *Relationships between amygdala activity and volume during emotional information processing in depressed and never-depressed individuals: An fMRI investigation*, Presentation at the meeting: The Amygdala in Brain Function: Basic and Clinical Approaches, Galveston Texas.
162. Lowry, T.P., May, J.C., **Siegle, G.J.**, Stenger, V.A., Drevets, W.C., Rogers, R.D., Becker, J.T., Carter, C.S. (2001). Reward-contingent decision-making elicits activation of orbitofrontal cortex and striatum. Meeting of the Society for Neuroscience, San Diego, CA.
163. **Siegle, G. J.**, Steinhauer, S.R., Thase, M.E., Carter, C. S., (2001). *Sustained amygdala activity in response to negative information in depressed individuals*. In **G. Siegle**, (Chair) Sustained processing of affective information in individuals with features of depression and anxiety. Meeting of the Society for Psychophysiological Research. Montreal, Canada. *Psychophysiology*, 3: S9.
164. Steinhauer, S.R., Kasperek, A., Condray, R., **Siegle, G.J.** (2001). *Pathways contributing to pupillary dilation during sustained processing*. Meeting of the Society for Psychophysiological Research. Montreal, Canada. *Psychophysiology*, 3: S91.
165. **Siegle, G. J.**, Steinhauer, S.R., Thase, M.E., Carter, C. S., (2001). Can't shake that feeling: Pupillary and fMRI assessment of sustained processing in response to emotional information in depressed individuals. 24th *International Pupil Colloquium*, Assilomar, CA. <http://www.jiscmail.ac.uk/files/PUPIL/ca.htm>.
166. Steinhauer, S.R., Kasperek, A., Condray, R., & **Siegle, G.J.** (2001). Dilation of the pupil via sympathetic and parasympathetic pathways during a continuous processing task. 24th *International Pupil Colloquium*, Assilomar, CA. <http://www.jiscmail.ac.uk/files/PUPIL/ca.htm>.
167. **Siegle, G. J.**, Steinhauer, S.R., Carter, C. S., Thase, M.E. (2001). Pupillary and fMRI correlates of depressive rumination. In C. Papageorgiou (Chair). *Rumination and Depression*. World Congress of Behavior Therapy, Vancouver, BC.
168. **Siegle, G.J.** (2001). *Convergence and divergence in measures of rumination*. WPIC Research Day, June, Pittsburgh.
169. **Siegle, G. J.**, Steinhauer, S.R., Carter, C. S., Thase, M.E. (2000). Convergence and divergence in measures of rumination. In **G. Siegle** and C. Papageorgiou (Chairs), *Depressive rumination: Nature and Consequences*. Meeting of the Association for the Advancement of Behavior Therapy, New Orleans, LA.

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170. **Siegle, G. J.** & Steinhauer, S. R. (2000). *Pupillary and reaction-time assessment of interference of emotional and non-emotional information on subsequent processing*. Presentation at the meeting of the Society for Psychophysiological Research, San Diego, CA.
171. **Siegle, G. J.**, Steinhauer, S.R., Carter, C. S., Thase, M.E. (2000). Pupillary, reaction time, and fMRI assessment of attention to emotional information in depression. In S. Steinhauer & E. Granholm (Co-chairs). *In the mind's eye: A view through the pupil at cognition in psychopathology*. Symposium at the meeting of the Society for Psychophysiological Research, San Diego, CA.
172. Steinhauer, S.R., Condray, R. Kasperek, A., **Siegle, G. J.** (2000). *Pharmacological dissociation of autonomic pathways contributing to pupillary dilation following motor activity*. Presentation at the meeting of the Society for Psychophysiological Research, San Diego, CA.
173. **Siegle, G. J.**, Moore, P., Hendrickson, R., Ganguli, R., Carter, C.S., (2000). *Cingulate activity associated with multiple types of emotional processing*. Presentation at the meeting of the Society for Neuroscience, New Orleans, LA.
174. **Siegle, G. J.** (1999). *Attention to negative information in depression: An increasingly complex story*. Presentation at the meeting of the Society for Chaos Theory in Psychology, Berkeley, CA.
175. Sagrati, S., **Siegle, G. J.**, Crawford, C. (1999). Ruminative and recovery from depression. Meeting of the American Psychological Association. Phoenix, AZ.
176. **Siegle, G. J.**, Sagrati, S., Crawford, C. (1999). Effects of rumination and initial severity on response to cognitive therapy for depression. Meeting of the Association for the Advancement of Behavior Therapy. Toronto, ON.
177. **Siegle, G. J.**, Ingram, R., Granholm, E., & Matt, G. (1998). Modeling the time course of attention to negative information in depression. In G. Matthews (Chair), *Cognitive science perspectives on personality and emotion..* Presentation at the 9th European Conference on Personality, Surrey, England.
178. Ritter, J., **Siegle, G. J.**, & Ingram, R. (1998). *Parental Bonding and Unique and Shared Aspects of Affective Symptomatology*. Presentation at the meeting of the American Psychological Association, San Francisco, CA.
179. Williams, G., Conner, J., **Siegle, G. J.**, Ingram, R., & Cole, D. (1998). *Is more negative less positive? Relating dysphoria to emotion ratings*. Presentation at the meeting of the Western Psychological Association, Albuquerque, New Mexico. Available web: www.sci.sdsu.edu/CAL/greg/wpa98/
180. **Siegle, G. J.** & Ingram, R. (1997). *A neural network model of inability to process emotional information in depression*. Presentation at the meeting of the Society for Research in Psychopathology. Palm Springs, CA.
181. Felsch, J., Turingan, M., Garcia, M., Primicias, W., **Siegle, G. J.**, & Matt, G. E. (1997). *Comparing traditional and fuzzy retrospective self-reports of fitness behaviors*. Presentation at American Evaluation Association, San Diego, CA.
182. **Siegle, G. J.** & Sarkin, A. (1997). *Identifying latent positive and negative schizotypal taxons using depressive symptomatology*. Presentation at the meeting of the American Psychological Association. Chicago, IL.
183. **Siegle, G. J.** & Gray, J., Ingram, R.E. (1997). *Relationships of bingeing and purging to depressive and anxious symptomatology*. Presentation at the meeting of the American Psychological Association. Chicago, IL.
184. Liu, P. J., Eftekhari, A., Malcarne, V., **Siegle, G. J.**, Chavira, D. (1997). *Perceptions of parental bonding: Ethnic differences and relationship to depression*. Presentation at the meeting of the American Psychological Association. Chicago, IL.
185. Ingram, R. E., Bailey, K., **Siegle, G. J.** (1997). *Depressotypic information processing in individuals with disrupted parental attachment*. Presentation at the meeting of the American Psychological Association. Chicago, IL.
186. Ingram, R.E., Bailey, K., **Siegle, G. J.**, Huston, P. (1997). *Development of a measure of past depressive symptoms and impairment*. Presentation at the meeting of the Western Psychological Association. Seattle, WA.

187. Frydach, C. J., Garcia, M., **Siegle, G. J.**, & Matt, G. E. (1997). *Comparing traditional and fuzzy retrospective self-reports of health behaviors*. Presentation at the Meeting of the Western Psychological Association, Seattle, WA.
188. Ritter, J., **Siegle, G. J.**, & Ingram, R. (1997). *Relationship of early parental bonding to depressive and anxious symptomatology*. Presentation at the meeting of the Western Psychological Association, Seattle, WA.
189. Hinkin, C. H., Castellon, S. A., Wood, S., Granholm, E. L., & **Siegle, G.** (1996). *Computerized and traditional stroop task dysfunction in HIV-1 Infection*. Presentation at the meeting of the International Neuropsychological Society.
190. Bailey, K., **Siegle, G. J.**, & Ingram, R. (1996). *Attachment style: A vulnerability factor for depression?* Presentation at the meeting of the Rocky Mountain Psychological Association, Park City, Utah.
191. Efthekari, A., **Siegle, G. J.**, & Ingram, R. (1996). *Nonparticipation and nonattendance to psychology experiments*. Poster session presented at the meeting of the Rocky Mountain Psychological Association, Park City, Utah.
192. Ingram, R. E., Malcarne, V. L., Chavira, D., **Siegle, G. J.**, & Velasquez, R. (1995). Depression, anxiety, and ethnic identity/acclulturation. In D. Hope (Chair), *New perspectives on depression and anxiety*. Symposium presented at the meeting of the Association for the Advancement of Behavior Therapy, Washington, D. C.
193. **Siegle, G. J.**, Ingram, R. E., & Jeffers, M. (1995). *Information processing differences in depression and anxiety*. Presentation at the meeting of the Association for the Advancement of Behavior Therapy, Washington, D. C.
194. **Siegle, G. J.**, Ingram, R. E., & Matt, G. E., (1995). *A neural network model of information processing biases in depression*. Presentation at the workshop Neural Modeling of Cognitive and Brain Disorders. College Park, Maryland.
195. **Siegle, G. J.**, Ingram, R. E., Matt, G. E., Shibley, M., Gyll, S., & Flaherty, M. (1995). *Rumination on valence in depression: Understanding the lexical decision task*. Presentation at the meeting of the American Psychological Association, New York, NY.
196. Le, V., Takarae, Y., Matt, G. E., & **Siegle, G. J.**, (1995). *People's conceptions of self-reports. A fuzzy set model*. Presentation at the meeting of the Western Psychological Association.
197. **Siegle, G. J.** (1994) A Connectionist Model of Recall in Depression. In **G. Siegle** & R. Ingram (Chairs), *Connectionist Models of Negative Affect*. Panel discussion conducted at the meeting of the Association for the Advancement of Behavior Therapy, San Diego.
198. Matt, G. E., **Siegle, G. J.**, Chartier, L., & Le, V. (1994). *Improving self-reports of health related behaviors: A fuzzy set model*. Presentation at the meeting of the Society for Behavioral Medicine, San Diego, CA.
199. Matt, G. E., Chartier, L., McKellar, J., & **Siegle, G. J.**, (1994). *Self-reports as fuzzy sets: Arguments, implications, and examples*. Presentation at the meeting of the American Psychological Association. Los Angeles, CA.
200. Matt, G. E., Shadish, W., Navarro, A., & **Siegle, G. J.** (1994). *Generalizing from the research lab to clinical practice: A reanalysis of psychotherapy meta-analyses*. Presentation at the meeting Evaluation '94.
201. Matt, G. E., Shadish, W., Navarro, A., & **Siegle, G. J.**, (1994). *The effects of psychotherapy conducted under clinically representative conditions*. Presentation at the meeting of the American Psychological Association, Los Angeles, CA.
202. **Siegle, G. J.** (1994). Integration of self as a modulator for depressive rumination. In M. Dombek (Chair), *Self structure and vulnerability to psychopathology*, Presentation at the meeting of the Rocky Mountain Psychological Association, Las Vegas.
203. **Siegle, G. J.**, Harrow, M., Sands, J., Miller, A., & Jobe, T., (1993). *Does stimulus difficulty play a role in thought pathology? Schizophrenics vs. Depressives*. Presentation at the meeting of the Society for Research in Psychopathology, Chicago, IL.
204. **Siegle, G. J.** (1993). *The CLIM Prototyping Environment*. Presentation at the meeting of INTERCHI:

Amsterdam.

205. Elliott, C., and **Siegle, G. J.** (1993). *Variables influencing the intensity of simulated affective states*. In AAAI technical report for the Spring Symposium on Reasoning about Mental States: Formal Theories and Applications, 58-67. Stanford University, Palo Alto, CA.
206. Elliott, C. & **Siegle, G.** (1993). Emotion Intensity Factors in Simulated "Believable Agents". In WAUME '93: *Workshop on Architectures Underlying Motivation and Emotion*. Birmingham, UK: The University of Birmingham.
207. Dean, T., & **Siegle, G. J.**, (1990) *An Approach to Reasoning About Continuous Change for Applications in Planning*, Proceedings of the Eighth National Conference on Artificial Intelligence, Cambridge, MA.
208. **Siegle, G. J.**, & Gunn, G., (1986) *Mathematical analysis of collective motion*. Presentation at the Connecticut Junior Science and Humanities Symposium.

Other Media

1. Siegle, G.J. & Aschheim, D. (2007). "Eyes on Christine." Collaborative artwork showing eyetracking in a semantic network, in D. Aschheim, *The Forgetting Curve*, Installation at the University of Southern Maine Art Galleries, Maine, January-March.

Unpublished Scholarly Works

1. **Siegle, G.J.** & Haggerty, A.E. (2005). *Cognitive Control Training: Intervention and Protocols*. Document disseminated with the cognitive control training intervention software for home and research use.
2. **Siegle, G. J.** (1999). *Being Borderline: An Operator's Manual*.
3. **Siegle, G. J.** (1996). *The Big Cab Book: Manual for the Cognitive Assessment Battery***Siegle, G. J.** (1995). *Mass Testing Manual: A manual for the running and scoring of Mass Testing measures at San Diego State University*

Other Research Activities

Selected International Activities

1. Invited attendee at the Wellcome Trust meeting *Understanding disorders of the mind through neuroimaging: Developing new paradigms*. September, 2008. London, UK. This meeting was to aid the Wellcome trust in forming its strategy with regards to neuroimaging in psychiatry.
2. Invited member, International Consortium for Anxiety and Depression. 2008. This consortium was formed, in part, to aid in advising the European Union on forming requests for applications in psychiatry.
3. Organizer and Board Member, international brain imaging interpretation competitions (2007 and 2006): Pittsburgh Brain Activity Interpretation Competition - Inferring Experience Based Cognition from Virtual Reality fMRI. This was an international competition in which our group provided publicly available fMRI datasets with the goal of having contestants predict behavioral features of the fMRI data, to highlight the potential of fMRI. There were hundred's of participants each year with strong scientific innovation emerging.

Events Organized

1. Chair (2013). Extreme psychophysiology: EEG where you would least expect it. Symposium at the meeting of the Society for Psychophysiological Research, October, Florence, Italy.
2. Co-chair (2012) The science and practice of meditation, October, Pittsburgh, PA. Invited course taught through the *Pittsburgh Theological Seminary*.
3. Co-chair (2012) Developmental Affective Neuroscience, September, Pittsburgh, PA. Innaugural biennial meeting.
4. Program Committee (2012). Society for Psychophysiological Research, New Orleans, LA.
5. The Neural Basis of Mindfulness and Human Well-Being (2012). Full day workshop for the *Psychology and Spirituality* lecture series through the *Pittsburgh Theological Seminary*. The unique goal of this workshop was to create a shared vocabulary for scientists and practitioners to discuss recovery with a

basis in both relevant neuroscience and experiential immersion. Philippe Goldin, Ph.D. was the featured presenter.

6. Panel Discussion Co-Chair (2011) Psychophysiology and neuroimaging for the clinic. How close are we? Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
7. Symposium Co-Chair (2011), Who gets better in individual CBT for child anxiety? Preliminary Findings From the Child Anxiety Treatment Study. Meeting of the Association for Behavioral and Cognitive Therapy, November, Toronto, CA.
8. Symposium Chair (2011). Blunted Affect: The “other side” of physiological reactivity in psychopathology. Meeting of the Society for Psychophysiological Research, Boston, MA.
9. Program Committee (2010) Society for Psychophysiological Research, Portland, OR.
10. Program Chair (2009) 28th International Pupil Colloquium, Pittsburgh, PA.
11. Workshop Co-leader (2008) Demystifying brain and body measures for the cognitive and behavioral therapist: No experience required! Meeting of the Association for Behavioral and Cognitive Therapy. November, Orlando, FL.
12. Workshop Chair (2008). Functional connectivity in depression and social phobia: Clinical implications. Meeting of the Society of Biological Psychiatry, Washington, D.C.
13. Coordinator (2007-present) Annual Artist in Residence Program - Transdisciplinary Research in Emotion Neuroscience and Development (TREND), University of Pittsburgh. August. Pittsburgh, PA. In 2007-2008, Deborah Aschheim, an artist who does painted and sculptural representations of neural function spent a week visiting with TREND faculty, doing brain scans, and giving a lecture on visualizing of neural function for the lay-person. In 2008-2009, Connie Cantor visited TREND faculty and lectured on visualization of cognitive aspects of psychopathology. In 2009-2010, Lia Cook, a textile artist examined emotional reactions to weavings compared to the subjects of the weavings using fMRI, EEG, eye-tracking, and pupillometry. In 2010-2011, Richard Claraval examined his own brain processes during the act of sculpting using EEG. In 2012-2013, Holly Hanessian examined the process of creating social connection via hand holding, imaging the hands in clay and the brain with EEG and fMRI.
14. Organizer, Pittsburgh Brain Activity Interpretation Competition (2007) - Inferring Experience Based Cognition from Virtual Reality fMRI contest. Symposium and awards presented at the meeting of the Organization for Human Brain Mapping, Chicago, IL.
15. Organizer, Pittsburgh Brain Activity Interpretation Competition (2006) - Inferring Experience Based Cognition from fMRI. Symposium and awards presented at the meeting of the Organization for Human Brain Mapping, Florence, Italy.
16. Symposium Chair. (2001). Sustained processing of affective information in individuals with features of depression and anxiety. Meeting of the Society for Psychophysiological Research. Montreal, Canada.
17. Symposium Chair. (2001). Depressive Rumination: Nature and Consequences, Meeting of the Association for the Advancement of Behavior Therapy.
18. Panel Discussion Chair. (1994). Connectionist Models of Negative Affect, Meeting of the Association for the Advancement of Behavior Therapy.

Professional Activities

Teaching

Ongoing recurrent classes

1. Course Name: Program in Cognitive Affective Neuroscience (PICAN) Meeting
Description: Weekly journal club and scientific project mentoring meeting
Year: 2003-present
No. of Times: 35-45 per year
To Whom: faculty, post-doctoral, graduate, & undergraduate students
No. of Students: 5-25 per session
Where: University of Pittsburgh School of Medicine

2. Course Name: Transdisciplinary Research in Emotion, Neuroscience, & Development (TREND) Meeting
 Description: Occasional journal club and scientific project mentoring meeting
 Year: 2006-present
 No. of Times: 3-17 per year
 To Whom: faculty, post-doctoral, graduate, & undergraduate students
 No. of Students: 20-35 per session
 Where: University of Pittsburgh School of Medicine
3. Course Name: Program in Cognitive Affective Neuroscience – fMRI training
 Description: 2 day intensive course in fMRI preprocessing and analysis
 Year: 2006-present
 No. of Times: once per year
 To Whom: graduate students, post-docs, junior faculty
 No. of Students: 20-25
 Where: University of Pittsburgh
4. Course Name: TREND Artist in Residence Series
 Description: Nationally known artists visit the TREND research group for a day and then give a lecture. I coordinate this series.
 Year: 2007-present
 No. of Times: once per year
 To Whom: graduate students, post-docs, staff, faculty
 No. of Students: 40
 Where: University of Pittsburgh
5. Course Name: Methodology Monday / fMRI Statistics Reading Group
 Description: Informal monthly clinic in fMRI methodology
 Year: 2002-2009
 No. of Times: 6-12 per year
 To Whom: faculty, post-doctoral, graduate, & undergraduate students
 No. of Students: 15-30 per session
 Where: University of Pittsburgh School of Medicine
6. Course Name: Pittsburgh Pupil Colloquium
 Description: Proseminar for pupil researchers in Pittsburgh
 Year: 2007, 2008
 No. of Times: approximately 2-3 presentations per year
 To Whom: graduate students, post-docs, staff, faculty
 No. of Students: 10
 Where: University of Pittsburgh

Previous recurrent classes, one time classes, and guest lectures

7. Course Name: Mobile EEG workshop
 Description: Introduction to Mobile EEG data collection and analysis
 Year: 2013
 No. of Times: 2
 To Whom: Faculty, Graduate Students, Post docs
 No. of Students: 10-15
 Where: Boston University (1x), University of Vienna (1x)

8. Course Name: Clinical Trials Science Institute: Ethics Seminar
 Description: Informing Patients about their data from clinical research studies: Clinical, ethical, and measurement considerations
 Year: 2013
 No. of Times: 1
 To Whom: Graduate Students, Post docs
 No. of Students: 14
 Where: University of Pittsburgh
9. Course Name: Clinical Psychology Seminar
 Description: Seminar
 Year: 2013
 No. of Times: 1
 To Whom: Graduate Students
 No. of Students: 14
 Where: University of Kansas
10. Course Name: Graduate Seminar in Social Work
 Description: Seminar
 Year: 2013
 No. of Times: 1
 To Whom: Graduate Students
 No. of Students: 30
 Where: University of Pittsburgh
11. Course Name: Multimodal NeuroImaging Workshop
 Description: Multimodal assessment in the depression clinic of the future
 Year: 2013
 No. of Times: 1
 To Whom: post-docs, graduate students
 No. of Students: 20
 Where: Pittsburgh
12. Course Name: The Science and Practice of Meditation
 Description: Seminar
 Year: 2012
 No. of Times: 6
 To Whom: Clinicians, researchers, and clergy
 No. of Students: 20
 Where: Pittsburgh Theological Seminary
- 13.
14. Course Name: Translating good clinical ideas to clinical treatments
 Description: Seminar for trainees
 Year: 2012
 No. of Times: 1
 To Whom: Medical residents, medical students, psychology interns
 No. of Students: 12
 Where: University of Rochester
15. Course Name: Graduate Seminar in Social Work
 Description: Seminar
 Year: 2012
 No. of Times: 1
 To Whom: Graduate Students
 No. of Students: 30
 Where: University of Pittsburgh

16. Course Name: Developmental Affective Science Colloquium
 Description: Seminar
 Year: 2011
 No. of Times: 2
 To Whom: Faculty, Post-docs, Graduate Students, Medical students, Staff
 No. of Students: 20
 Where: University of Pittsburgh
17. Course Name: Child Development Unit Seminar
 Description: Seminar
 Year: 2011
 No. of Times: 1
 To Whom: Faculty, Post-docs, Medical students
 No. of Students: 10
 Where: University of Pittsburgh
18. Course Name: Neuroscience of Psychology Seminar
 Description: Seminar in Affective Neuroscience
 Year: 2011
 No. of Times: 1
 To Whom: Graduate Students
 No. of Students: 10
 Where: University Trondheim, Norway
19. Course Name: Medical Student Training Program (MSTP)
 Description: Seminar in clinical fMRI methods
 Year: 2011
 No. of Times: 1
 To Whom: Medical students
 No. of Students: 15
 Where: University of Pittsburgh
20. Course Name: Child Intervention and Prevention Services (CHIPS) Summer Research Institute
 Description: Countdown to a K – Steps towards applying for a K-award without losing one's mind
 Year: 2010
 No. of Times: 1
 To Whom: Faculty, post-docs, graduate students
 No. of Students: 15
 Where: Pittsburgh
21. Course Name: Clinical Translational Science Institute Multimodal Imaging Workshop
 Description: Lecture on fMRI – Case study and promotion of neuroimaging studies
 Year: 2010
 No. of Times: 1
 To Whom: Faculty, post-docs, graduate students
 No. of Students: 30
 Where: Pittsburgh
22. Course Name: Introduction to Matlab for psychophysiology and neuroimaging
 Description: Graduate and postdoctoral course in the Matlab Software package
 Year: 2009
 No. of Times: 4 ½ day sessions
 To Whom: Undergraduate, graduate and post-doctoral students and faculty
 No. of Students: 30
 Where: University of Pittsburgh

23. Course Name: Psychology Intern Seminar
 Description: Lecture: fMRI of depression and Promotion of translational research
 Year: 2010
 No. of Times: 1
 To Whom: graduate student clinical psychology interns
 No. of Students: 6
 Where: Pittsburgh
24. Course Name: Psychiatric Epidemiology
 Description: Graduate and postdoctoral course linking epidemiology and psychiatry
 Year: 2009
 No. of Times: 1
 To Whom: graduate and post-doctoral students and faculty
 No. of Students: 15
 Where: University of Pittsburgh
25. Course Name: "How-To" brown-bag colloquium series in Cognitive Psychology
 Description: Seminar on persuasive communication
 Year: 2008
 No. of Times: 1
 To Whom: graduate and post-doctoral students
 No. of Students: 30
 Where: University of Pittsburgh
26. Course Name: Demystifying brain and body measures for the cognitive and behavioral therapist: No experience required!
 Description: Introduction to fMRI and psychophysiological measures for aspiring clinical researchers and collaborators
 Year: 2008
 No. of Times: 1
 To Whom: Graduate students, post-docs, and faculty
 No. of Students: 18
 Where: Meeting of the Association for Behavioral and Cognitive Therapy. November, Orlando, Fl.
27. Course Name: Life-Span Development of Normal and Abnormal Behavior
 Description: NIH T32 Proseminar
 Year: 2008
 No. of Times: 2
 To Whom: Graduate students and post-doctoral fellows
 No. of Students: 30
 Where: Vanderbilt University, Nashville
28. Course Name: Society for Psychophysiological Research: Education and Training Committee Roundtable on Clinical Psychophysiology and Neuroimaging
 Description: Roundtable discussion on neuroimaging in clinical psychophysiology
 Year: 2008-2009
 No. of Times: 2 (once per year)
 To Whom: Graduate students and post-doctoral fellows
 No. of Students: 15
 Where: 2008 - Austin, Texas, 2009 - Berlin

29. Course Name: Neuroscience
 Description: Nursing school course in neuroscience
 Year: 2008
 No. of Times: 1
 To Whom: nursing graduate students & post-docs
 No. of Students: 6
 Where: University of Pittsburgh School of Nursing
30. Course Name: Clinical Psychology Brown Bag Series
 Description: Brown bag lecture series for clinical psychology students and faculty
 Year: 2007
 No. of Times: 1
 To Whom: Clinical psychology graduate students, post-docs, and faculty
 No. of Students: 30
 Where: University of Pittsburgh
31. Course Name: Seminar in Computational Modeling
 Description: Graduate cognitive neuroscience seminar
 Year: 2007
 No. of Times: 1
 To Whom: Faculty, post-doctoral, and graduate students
 No. of Students: 25
 Where: Carnegie Mellon University
32. Course Name: Brain Executive/Emotional Control Systems
 Description: Psychology course in brain function
 Year: 2007
 No. of Times: 1
 To Whom: graduate, & undergraduate students
 No. of Students: 10
 Where: University of Pittsburgh
33. Course Name: Attention and Memory
 Description: Seminar in research on attention and cognition
 Year: 2006
 No. of Times: 1
 To Whom: graduate students
 No. of Students: 10
 Where: University of Pittsburgh
34. Course Name: Cognitive Research Methods
 Description: Seminar in research methodology in cognitive experimental psychology
 Year: 2004
 No. of Times: 1
 To Whom: graduate students
 No. of Students: 7
 Where: University of Pittsburgh
35. Course Name: Seminar in Decision Sciences
 Description: Seminar in decision sciences
 Year: 2004
 No. of Times: 1
 To Whom: faculty, post-doctoral students, graduate students
 No. of Students: 7
 Where: Carnegie Mellon University

36. Course Name: Seminar in the Neurobiology of Emotion
 Description: Graduate seminar in emotion
 Year: 2003
 No. of Times: 1
 To Whom: faculty, and graduate students
 No. of Students: 7
 Where: Carnegie Mellon University
37. Course Name: Magnetic Resonance in Neuroscience
 Description: Guest lecturer for an undergraduate course in magnetic resonance imaging
 Year: 2003
 No. of Times: 1
 To Whom: undergraduate students
 No. of Students: 10
 Where: Carnegie Mellon University
38. Course Name: Magnetic Resonance in Neuroscience
 Description: Guest lecturer for an undergraduate course in magnetic resonance imaging
 Year: 2002
 No. of Times: 1
 To Whom: undergraduate students
 No. of Students: 10
 Where: Carnegie Mellon University
39. Course Name: Cognitive Psychology Lecture Series
 Description: Guest lecturer for a weekly lecture series on issues in cognitive psychology
 Year: 2002
 No. of Times: 1
 To Whom: psychology department faculty and staff
 No. of Students: 30
 Where: University of Pittsburgh
40. Course Name: CNBC Brown Bag Series
 Description: Brown bag lecture series on cognitive neuroscience
 Year: 2002
 No. of Times: 1
 To Whom: CNBC students and faculty
 No. of Students: 15
 Where: CNBC
41. Course Name: Health Psychology Lecture Series
 Description: Guest lecturer for a weekly lecture series on issues in health psychology
 Year: 2001
 No. of Times: 1
 To Whom: psychology department graduate students, faculty and staff
 No. of Students: 30
 Where: University of Pittsburgh
42. Course Name: Seminar in Neuroanatomy
 Description: Guest lecturer for a weekly seminar series on issues in functional neuroimaging
 Year: 1999,2001, 2002
 No. of Times: 3
 To Whom: Psychology and neuroscience graduate students and faculty
 No. of Students: 18
 Where: University of Pittsburgh

43. Course Name: Magnetic Resonance Imaging Lecture Series
Description: Guest lecturer for a weekly lecture series on issues in magnetic resonance imaging
Year: 2000
No. of Times: 1
To Whom: MR center, psychiatry, and neurology faculty and staff
No. of Students: 40
Where: University of Pittsburgh Medical School
44. Course Name: Cognition and Psychopathology
Description: Guest lecturer for a course in cognitive correlates of psychopathology
Year: 1998
No. of Times: 1
To Whom: undergraduate psychology students
No. of Students: 75
Where: University of Toronto
45. Course Name: General Psychiatry Curriculum, Level II Course
Description: Guest lecturer for a description of Cognitive Behavioral Therapy
Year: 1998
No. of Times: 1
To Whom: PGY II Psychiatric Residents
No. of Students: 12
Where: Clarke Institute of Psychiatry
46. Course Name: Testing and Measurement,
Description: Instructor for a first course in psychometrics
Year: 1996-1998
No. of Times: 3 times per week, six semesters
To Whom: upper level psychology undergraduates
No. of Students: Approximately 33 per class, 2 classes per semester
Where: San Diego State University
47. Course Name: Cognitive Correlates of Depression and Anxiety
Description: Instructor for undergraduate research seminar
Year: 1994-1997
No. of Times: 1x per week, six semesters
To Whom: upper level psychology undergraduates
No. of Students: 6-12 per semester
Where: San Diego State University
48. Course Name: Research Design and Analysis
Description: Teaching assistant for doctoral statistics course in regression and analysis of variance.
Year: 1995-1996
No. of Times: 3x per week, 2 classes, 1 semester
To Whom: Psychology graduate students
No. of Students: Approximately 27 per class
Where: San Diego State University
49. Course Name: Experimental Mathematics
Description: Guest lecturer for a course in mathematical visualization
Year: 1993
No. of Times: 1
To Whom: Graduate computer science and mathematics students
No. of Students: 16
Where: Northwestern University

50. Course Name: Automated Learning Systems
 Description: Instructor for a course in creating learning algorithms for autonomous robots
 Year: 1991
 No. of Times: 2x per week, 1 semester
 To Whom: undergraduate cognitive science students
 No. of Students: 6
 Where: Brown University
51. Course Name: Introduction to Artificial Intelligence
 Description: Teaching Assistant for a course in artificial intelligence programming
 Year: 1990-1991
 No. of Times: 2x per week, 3 semesters (2 as Head Teaching Assistant)
 To Whom: undergraduate computer science students
 No. of Students: 60 per semester
 Where: Brown University
52. Course Name: Honors Third Semester Calculus
 Description: Teaching assistant for a course in multidimensional calculus
 Year: 1990
 No. of Times: 2x per week, 1 semester
 To Whom: undergraduate mathematics students
 No. of Students: 30
 Where: Brown University
53. Course Name: Fundamentals of Programming
 Description: Teaching assistant for a course in algorithms and assembly code programming
 Year: 1990
 No. of Times: 3x per week, 1 semester
 To Whom: Undergraduate computer science students
 No. of Students: 75
 Where: Brown University
54. Course Name: Visualization of Mathematically Generated Functions
 Description: Lead a course in creation of software for visualizing mathematical functions
 Year: 1989
 No. of Times: 2x per week, 1 semester
 To Whom: Undergraduate mathematics and computer science students
 No. of Students: 6
 Where: Brown University

Pre and Post-Doctoral Students

Predoctoral Students

Current

1. Darcy Mandell, 2008-present, University of Pittsburgh, Department of Psychology, Clinical Psychology Graduate student, primary mentor
2. Xionan Liu, 2011-present, Carnegie Mellon University, Department of Psychology, Psychology graduate student, secondary mentor
3. Emily Belleau, 2011-present, University of Wisconsin, Milwaukee, Department of Psychology, Clinical Psychology Graduate student, Thesis consultant
4. Xiaoyu Lee, 2011-present, University of Pittsburgh, Department of Psychology, Undergraduate directed research supervisor
5. Nick Stanley, 2013-present, Carnegie Mellon University, Engineering, Undergraduate directed research supervisor

Previous

6. William Bird, 2010-2013, University of Pittsburgh, Department of Psychology, Honors undergraduate directed research supervisor. *Graduated. Currently research assistant University of Pittsburgh.*
7. Alex Badia, 2011, Chadham University, Department of Psychology, Undergraduate directed research supervisor
8. Therezia Alchoufete, 2011-2012, University of Pittsburgh, Department of Neuroscience, Undergraduate directed research supervisor
9. Benjamin Paul, 2008-2012, University of Pittsburgh, Department of Psychology, Clinical Psychology Master's student, primary mentor. *Graduated with master's. Currently CEO, Communiteach.*
10. Rita Svetlova, 2008-2011, University of Pittsburgh, Department of Psychology, Clinical Psychology Graduate student, IGERT mentor, *Currently Fellow at the Max Plank Institute for Evolutionary Anthropology*
11. Rebecca Price, 2010-2011, Rutgers University, Department of Psychology / Intern University of Pittsburgh. Internship research mentor. *Graduated with Ph.D. Currently Post-doctoral fellow at the University of Pittsburgh*
12. Kyung Hwa Lee, 2003-2011, University of Pittsburgh, Department of Psychology, Cognitive Neuroscience Graduate Student, Primary mentor. *Graduated with Ph.D. Currently Post-doctoral fellow at the University of Pittsburgh*
13. Naho Ichikawa, 2005-2007, 2008-2011, University of Pittsburgh Department of Psychiatry / Nagoya University, Graduate student, secondary mentor; primary mentor for visiting scholarship. *Graduated with Ph.D. Currently Post-doctoral Student, Stanford University.*
14. Dana Steidtmann, 2005-2010, University of Kansas, Department of Psychology, Graduate student, dissertation consultant
15. Dongli Zhou, 2008-2010, University of Pittsburgh, Department of Statistics, Graduate student, secondary mentor. *Graduated with Ph.D., currently working as a statistician in a pharmaceutical firm.*
16. Brittany Hayes, 2009-2011, University of Pittsburgh, Department of Psychology, Undergraduate directed research supervisor.
17. Amanda Collier, 2007-2009, University of Pittsburgh, Department of Psychology, NIMH Undergraduate research fellowship mentor. Undergraduate honors thesis advisor. *Currently working as a research coordinator.*
18. Christine Larson, 2002-2003, University of Pittsburgh, Department of Psychiatry, Intern, mentor. *Graduated Ph.D., currently Assistant Professor, University of Wisconsin, Milwaukee.*
19. Desmond Oathes, 2004-2006, Pennsylvania State University, Department of Psychology, Graduate student, dissertation consultant. *Graduated Ph.D., currently post-doc, Stanford University*
20. Kelly Mallon, 2008, University of Pittsburgh, Department of Psychology, Undergraduate research mentor
21. Lindsay Blazin, 2006-2007, University of Pittsburgh, Department of Neuroscience, honors undergraduate research mentor. *Currently medical student.*
22. Kelly Snow, 2007, University of Pittsburgh, Interdisciplinary studies, Undergraduate research mentor
23. Lopa Mahindi, 2007, University of Pittsburgh, Department of Psychology, Undergraduate research mentor
24. Lisa Farace, 2003, University of Pittsburgh, Department of Neuroscience, Honors undergraduate thesis advisor. Thesis: *Relationships between physiological reactivity and memory for emotional information in depressed individuals.*
25. Agnes Haggerty, 2004, University of Pittsburgh, Department of Neuroscience, Honors undergraduate thesis advisor. Thesis: *Amygdala Volume in Children and Adults with Unipolar Depression.* *Currently, graduate student, University of Pittsburgh.*
26. Emilie Muelly, 2004 summer-2006, University of Pittsburgh, Department of Neuroscience, Honors undergraduate thesis advisor. Thesis: *Working Memory Impairment in Unipolar Depression on Difficult and Adaptive Tasks.* Also, undergraduate Brackenridge Fellowship mentor and 2005 spring, NIMH Undergraduate Research Fellowship Mentor. *Currently, Ph.D. student, Penn State University.*
27. Michael Muelly, 2004 summer-present, University of Pittsburgh, Department of Computer Science, Undergraduate Brackenridge Fellowship mentor and undergraduate research mentor

28. Elizabeth Berk, 2005 summer, Sarah Lawrence College, undergraduate research mentor
29. Laura Taylor, 2005 summer, Penn State University, undergraduate research mentor. *Currently, medical resident.*
30. John Scott, 2005-2008, University of Pittsburgh Department of Public Health, Graduate student psychiatry mentor, *Currently pharmaceutical firm*
31. Mauri Cesare, 2006, University of Pittsburgh, undergraduate research mentor.
32. Kyoko Kamishima, 2006-2007, University of Pittsburgh, Honors undergraduate thesis advisor. Thesis: *A Neurophilosophical Investigation of the Limits of fMRI. Currently neuroscience graduate student, Albert Einstein University.*
33. Mary Beth Heaton, 2006-2007, University of Pittsburgh, Honors undergraduate thesis advisor. Thesis: *Distinguishing Subtypes of Depression: Familial Versus Non-familial PDD*
34. Marci Chew, 2006-2007, University of Pittsburgh Department of Pharmacology, Graduate Student, lab supervisor and dissertation consultant. *Currently pharmaceutical company.*
35. Dana McMackin, 2006-2008, Duke University, Department of Psychology, Graduate Student, NRSA consultant, *Currently Assistant Professor, University of Pittsburgh.*
36. Patrick Ryan, summer 2008, Shadyside Academy, High school student, summer intern
37. Jeffrey Borrebach, summer 2008, Case Western Reserve University, Department of Mathematics, Undergraduate student, summer intern, *Currently biostatistics graduate student, University of Pittsburgh*

PostDoctoral Students

Current

1. Patricia Tan, 2010-present, University of Pittsburgh, Department of Psychiatry, co-mentor
2. Kyung Hwa Lee, 2011-present, University of Pittsburgh, Department of Psychiatry, secondary mentor
3. Vinod Sharma, 2011-present, University of Pittsburgh, Department of Psychiatry, mentor

Previous

4. Bruce Smith, 2002, University of Pittsburgh, Department of Psychiatry, mentor, *Currently Assistant Professor of Psychology, Director: Health Psychology Program, Arizona State University.*
5. Erica Forbes, 2003-2004, University of Pittsburgh, Department of Psychiatry, mentor, *Currently Assistant Professor of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine.*
6. Peter Gianaros 2003-2005, University of Pittsburgh, Department of Psychiatry, lab supervisor/consultant^{*}, *Currently Assistant Professor of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine.*
7. Jennifer Silk, 2004-2005, University of Pittsburgh, Department of Psychiatry, lab supervisor/consultant^{*}, *Currently Assistant Professor of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine.*
8. Tina Goldstein, 2006, University of Pittsburgh, Department of Psychiatry, K01-consultant^{*}, *Currently Assistant Professor of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine.*
9. Peter Franzen, 2004-2007, University of Pittsburgh, Department of Psychiatry, T32 post-doctoral fellowship co-mentor^{*}, *Currently Assistant Professor of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine.*
10. Michelle Horner, 2007-2010^{*}, University of Pittsburgh, Department of Psychiatry, T32 post-doctoral fellowship mentor^{*}, *Currently faculty, University of Pittsburgh.*
11. Judith Callan, Ph.D., 2007-2009, University of Pittsburgh, School of Nursing, T32 post-doctoral fellowship secondary-mentor^{*}, *Currently faculty, University of Pittsburgh.*
12. Anita Barber, Ph.D., 2007-2010, University of Pittsburgh, Post-doctoral fellowship secondary-mentor, K01 proposed secondary-mentor, *Currently post-doc*
13. Neil Jones, 2006-2010^{*}, University of Pittsburgh, Department of Psychiatry, mentor^{*}. *Currently Assistant Professor of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine.*
14. Andrea Stocco, 2008-2009, University of Pittsburgh, Department of Psychiatry, mentor. *Currently, post-*

doc, Carnegie Mellon University

15. Dana McMakin, 2008-2010*, University of Pittsburgh, Department of Psychiatry, mentor*, *Currently Assistant Professor of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine.*
16. Wessyl Kelly, 2011-2012, University of Pittsburgh, Department of Psychiatry, mentor, *Currently post-doc Children's Hospital*
17. Natalie Cort, 2011-2013, University of Rochester, Department of Psychiatry, academic consultant
18. Rebecca Price, 2011-2013*, University of Pittsburgh, Department of Psychiatry, mentor, *Currently Assistant Professor of Psychiatry, Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine.*

* = transitioned to faculty following receipt of K-award – listed now under Junior Faculty mentees.

Medical Students and Residents

Current

1. Neilly Buckalew, 2009-2010, Medical/Graduate student, 2012-present, Medical Resident, University of Pittsburgh, Department of Psychiatry, Research mentor

Previous

1. David Rabin, 2013, Medical Student – Dedre Scholar, Albany Medical College
2. David Atkinson, 2007-present, Medical Student, University of Pittsburgh, Department of Psychiatry, summer project and research track mentor
3. Vikas Kumar, 2006-2009, Medical Student, University of Pittsburgh, Department of Psychiatry, Reynolds Fellowship mentor – summer project mentor
4. Dalia Balsalmo, 2007, Medical Student, University of Pittsburgh, Department of Psychiatry, summer project co-mentor
5. Michelle Horner, 2006-2007, Resident, University of Pittsburgh, Department of Psychiatry, Research mentor, currently faculty, University of Pittsburgh School of Medicine

Junior Faculty mentees

1. Peter Gianaros, Ph.D. 2004-2009, Assistant Professor, University of Pittsburgh, Department of Psychiatry, K01 consultant.
2. Jennifer Silk, Ph.D., 2005-2011, Assistant Professor, University of Pittsburgh, Department of Psychiatry, NARSAD mentor / K01 consultant.
3. Wesley Thompson, Ph.D., 2005-2011, Assistant University of Pittsburgh Department of Psychiatry, imaging supervisor/K01 consultant. Currently Assistant Professor of Psychiatry, University of California San Diego / San Diego VA Hospital.
4. Tracy Dennis, Ph.D., 2005-2010, Assistant Professor, Hunter College, K01 consultant
5. Tina Goldstein, Ph.D., 2006-present, Assistant Professor, University of Pittsburgh, Department of Psychiatry, lab supervisor/ K01 consultant
6. Peter Franzen, Ph.D., 2007-present, Assistant Professor, University of Pittsburgh, Department of Psychiatry, K01 secondary mentor
7. Alexandre Dombrowski, M.D., 2007-present, Assistant Professor, University of Pittsburgh, Department of Psychiatry, lab supervisor/ K01 Co-mentor
8. Carmen Andreescu, M.D., 2008-present, Assistant Professor, University of Pittsburgh, Department of Psychiatry, K01 Co-mentor
9. Samay Jain, M.D., 2008-present, Assistant Professor, University of Pittsburgh, Department of Neurology, lab supervisor / K01 consultant.
10. Dana Rofey, M.D., 2008-2013, Assistant Professor, University of Pittsburgh, Children's Hospital, lab supervisor / proposed K01 consultant.
11. Dara Sakolsky, M.D., 2008-2011, Assistant Professor, University of Pittsburgh, Department of Psychiatry, proposed K23 consultant.
12. Judith Callan, Ph.D., 2009-present, Assistant Professor, University of Pittsburgh, School of Nursing, K12 secondary-mentor
13. Dana McMakin, 2010-2012, University of Pittsburgh, Department of Psychiatry, co-mentor.

14. Carla Mazefsky, Ph.D., 2010-present. Assistant Professor, University of Pittsburgh, University of Pittsburgh, Department of Psychiatry, lab supervisor / K01 consultant.
15. Stephanie Stepp, Ph.D., 2010-present, Assistant Professor, University of Pittsburgh, Department of Psychiatry, K01 co-mentor.
16. Neil Jones, 2010-present, University of Pittsburgh, Department of Psychiatry, K-award mentor.
17. Rebecca Price, 2013-present, University of Pittsburgh, Department of Psychiatry, K-award mentor.

Service on Dissertation, and Graduate Thesis Committees

1. Susan Petran, 2001-2003, Doctoral Student, University of Missouri-Kansas City, Department of Psychology
2. Sharon Nau, 2003, Master's student, University of Strathclyde, Department of Psychology, Department of Psychology
3. Elizabeth Wheeler, 2003-2006, Doctoral Student, University of Pittsburgh, Department of Psychology
4. Amy Overman, 2004-2006, Doctoral Student, University of Pittsburgh, Department of Psychology
5. Christopher May, 2005, Doctoral Student, University of Pittsburgh, Department of Psychology
6. Kyung Hwa Lee, 2003-present, Doctoral Student, University of Pittsburgh, Department of Psychology
7. Sandra Sagrati, 2005-present, Doctoral Student, University of Toronto, Department of Psychology
8. Karin Cox, 2005-present, Doctoral Student, University of Pittsburgh, Department of Psychology
9. John Scott, 2005-2008, Doctoral Student, University of Pittsburgh, Department of Public Health
10. Doreen Olvet, 2008-2009, Doctoral Student, University of New York, Stonybrook, Department of Psychology
11. Ian Reed, 2007-2009, Doctoral Student, University of Pittsburgh, Department of Psychology
12. Tsunhin Wong, 2008-2009, Master's Student, University of Pittsburgh, Department of Psychology
13. Nicole Hill, 2007-2010, Doctoral Student, University of Pittsburgh, Department of Psychology
14. Margarita Svetlova, 2008-2011, Doctoral Student, University of Pittsburgh, Department of Psychology
15. Dongli Zhou, 2008-2011, Doctoral Student, University of Pittsburgh, Department of Statistics
16. Danielle Novick, 2008-2011, Doctoral Student, University of Pittsburgh, Department of Psychology
17. Benjamin Paul, 2010-11, Doctoral Student, University of Pittsburgh, Department of Psychology
18. Darcy Mandell, 2010-present, Doctoral Student, University of Pittsburgh, Department of Psychology

Service on Doctoral Comprehensive Exam Committees

1. Margarita Svetlova, 2010, University of Pittsburgh, Department of Psychology
2. Jeffrey Phillips, 2008-present, University of Pittsburgh, Department of Psychology
3. Kyung Hwa Lee, 2007, Psychology, University of Pittsburgh, Department of Psychology
4. Elizabeth Wheeler, 2003, Psychology, University of Pittsburgh, Department of Psychology
5. David Halpern, 2004, Psychology, University of Pittsburgh, Department of Psychology
6. Elizabeth Tricomi, 2004, Psychology, University of Pittsburgh, Department of Psychology

Colloquia

1. "Cognitive neuroscience in the psychology clinic of the future", Psychology colloquium, University of Virginia, October 2013
2. "Interrupting pathways from child anxiety and depression to adult depression: Towards mechanistic targets", Psychology colloquium, University of Vienna, October 2013
3. "The emotion clinic of the future: Precision medicine through cognitive neuroscience", Grand Rounds, Akron General Hospital, Akron OH, July 2013
4. "Wherefore art thou depression clinic of the future? From today's cognitive neuroscience to tomorrow's bedside.", Case Western Reserve University, Cleveland, OH, May 2013
5. "Where'd they go? Mechanisms and clinical implications of blunted and discordant affect.", University of Maryland, College Park, MD, April, 2013
6. "Neural pathways paved with good intentions: Precision medicine in next-generation psychiatry clinics", Laureate Institute for Brain Research, Tulsa, March, 2013.
7. "The psychiatry clinic of the future: Fantasies and first steps", Laureate Institute for Brain Research, Tulsa, January, 2013.

8. "Wherefore art thou depression clinic of the future: From today's cognitive neuroscience to tomorrow's clinic." University of Rochester, NY, April, 2012
9. "Trials and travails of putting a biomarker in the psychiatry clinic: Why I keep doing that same experiment", University of Illinois at Chicago, December, 2012
10. "Cognitive neuroscience in the psychiatry clinic", University of Toledo, December, 2012
11. "Cognitive neuroscience in the emotion clinic of the future", University of New York, Binghamton, December, 2012
12. "Interrupting Pathways from Child Anxiety and Depression to Adult Depression: Towards Mechanistic Targets", University of Minnesota, Child Prevention Research Center, March, 2012
13. "Wherefore art thou depression clinic of the future? From cognitive neuroscience to the psychology clinic.", Psychology Colloquium Series, University of Wisconsin, Milwaukee, March, 2012
14. "Does getting "better" mean getting "normal"? Neuroimaging of recovery profiles in depression.", Magnetic Resonance Center Speaker Series, Yale University, February, 2012
15. "Wherefore art thou depression clinic of the future? From neuroimaging to targeted treatments.", Psychology Colloquium Series, Yale University, February, 2012
16. "The depression clinic of the future: How do we get from here to there?", Harvard University, November, 2011
17. "Towards behavioral and neuro-rehabilitation for the depression clinic," Treatment Resistant Depression discussion group, Western Psychiatric Institute and Clinic, April, 2011
18. "Neuroimaging for the depression clinic: Fantasies and first steps." Meet the PI - Grand Rounds. University of Pittsburgh School of Medicine, Department of Psychiatry, November, 2010.
19. "What about depressed patients are we treating? From neuroimaging to the clinic", Harvard University, June, 2010
20. "Depressive rumination: From neural mechanisms to novel interventions", Boston College, June 2010.
21. "What parts of depression are we treating? Emerging neuroscience and first insights from the "Clinician Accessible Neuroimaging (CAN)" project", Presentation to the Center for Anxiety and Related Disorders, Boston University, June 2010.
22. "Is it all in my head? Interoceptive awareness and neural mechanisms of affective psychopathology," Pittsburgh Mind Body Center Ideas Seminar, Greg Siegle & Darcy Mandell, Pittsburgh, February, 2010.
23. "What about depressed patients are we treating? First insights from the "Clinician Accessible Neuroimaging (CAN)" project.", Grand Rounds, Mt. Sinai Hospital, New York, February, 2010.
24. Interview for FreedomDomain Radio, December 2009, <http://www.youtube.com/watch?v=AjqrNPomIzg>
25. "How do psychotherapy and antidepressant drugs affect the brain?" Presentation to the local chapter of the National Alliance on Mental Illness, Pittsburgh, April 2009.
26. "Do healthy adolescents process emotional information like depressed adults? Implications of brain imaging for understanding and treating depression through the lifespan," Grand Rounds, Child and Adolescent Study Center, New York University, September 2008
27. "Functional connectivity: Where for art thou?", Colloquium, Child and Adolescent Study Center, New York University, May 2008
28. "Emotional reactivity in depression: Towards personalized treatment," Address to the International Consortium for Anxiety and Depression, Bergen, Norway, May, 2008.
29. "Emotional information processing: Are normal adolescents like depressed/anxious adults?" Child and Adolescent Psychiatry Colloquium, University of Pittsburgh School of Medicine, March, 2008
30. "Translational neuroimaging in depression: From mid-life to elderly research", Late Life Advanced Center for Interventions and Services Speaker Series presentation, University of Pittsburgh School of Medicine, December, 2007
31. "Translational neuroimaging in depression: Towards personalized treatment", Clinical Psychology Brownbag, University of Pittsburgh, November, 2007
32. "Translational neuroimaging in depression: Towards personalized treatment", Grand Rounds, University of Pennsylvania School of Medicine, September, 2007.
33. "Emotional reactivity in unipolar depression: From fMRI to intervention", colloquium, SUNY Stony

Brook, March 2007.

34. "Mood under the hood: Brain mechanics of dynamic changes in mood", Grand Rounds, Western Psychiatric Institute and Clinic, January 2007.
35. "Emotional reactivity and regulation in unipolar depression: From the scanner to the clinic", colloquium, Ohio State University, Department of Psychology, October, 2006.
36. "Sustained emotional reactivity in unipolar depression: From fMRI to intervention", Grant rounds, Beth Israel Hospital, New York, February, 2006
37. "From the scanner to the clinic: Using fMRI and assessment of pupil dilation to inform treatment for unipolar depression", Grand rounds, New Jersey Neuroscience Institute, January 2006
38. "fMRI of unipolar depression: From the scanner to the clinic," lecture to WPIC residents as part of a workshop on imaging of emotional disorders, September, 2005.
39. "Imaging and behavior or Why should intervention researchers care about imaging when they can observe behavior?" Lecture to WPIC Mental Health Intervention Research Center, May 2005.
40. "Using cognitive neuroscience to predict recovery in cognitive therapy for depression" – lecture to Psychology students at the University of Nagoya, Japan, May 2005
41. "From brain imaging to intervention: Sustained emotional reactivity in unipolar depression," lecture to the Department of Psychology, University of Kansas, April 2005
42. "Emotional reactivity and regulation in unipolar depression: Neural correlates through the lifespan" Child and Adolescent Psychiatry Colloquium, University of Pittsburgh School of Medicine, March, 2005
43. "From fMRI to intervention: Sustained emotional reactivity in unipolar depression", lecture to the Brain Imaging Research Center, Pittsburgh, January 2004.
44. "From brain activity to intervention: Sustained emotional reactivity in depression," MIRECC Speaker series, VA Pittsburgh, January 2004.
45. "Sustained emotional reactivity in depression: From brain activity to intervention." North Dakota State University, December, 2004.
46. "Sustained emotional reactivity in depression: From brain activity to intervention." Penn State University, October, 2004.
47. "Sustained emotional reactivity in depression: From brain activity to intervention." University of California, San Diego, October, 2004.
48. "Out of sight into mind: Visual processing of emotional information in depression," London Vision Colloquium, City University, London, April, 2004.
49. "Concurrent Pupil dilation and fMRI. Now that we've got it, what do we do with it?" University of California, San Diego, January, 2003. "Sustained Amygdala Activity in Depression: Where's the Off Switch," Stanford University, January, 2003. "Rumination, worry, and fMRI-derived emotional information processing biases in depression and anxiety", Stanford University, January, 2003
52. "Sustained Amygdala Activity in Depression," University of West Virginia, September 2002.
53. "Sustained Affective Reactivity in Depression: Where's the Off-switch," Southern Methodist University, October 2002.

Selected Media Appearances

1. 2013. *Wall Street Journal* feature article: "Clinic of the Future: Aiming for Faster Depression Relief.", describing the use of neuroimaging to guide case conceptualization in our clinic
2. 2013. *Vice Magazine* feature article: "The video game helmet that can hack your brain" describing our use of EEG to understand reward processing using mobile technology
3. 2012. PBS series "*Craft in America*" - discussing neuroaesthetics, collecting and showing EEG of an artist weaving
4. 2012, Discovery Channel documentary "*Sex in America*" – demonstrating EEG of arousal
5. 2012. NHK (Japan public television) documentary on depression mechanisms and non-pharmacological treatments
6. 2010. *Kountdown to a K*. 4researchers interview on writing a K-award grant. Available web: <http://www.4researchers.org/articles/6133>

7. 2009. Freedom Domain Radio interview on neuroscience of depression, available web: <http://www.youtube.com/watch?v=AjqrNPomIzg>
8. 2008. French public television documentary on non-pharmacological treatments for depression
9. 2002. *Economist* interview. Available web <http://www.economist.com/node/1143317>

Research

Note: Dollar amounts represent current year totals only

Funded Grants

MH096334 (Siegle)	9/1/2012 - 4/31/2017	30.00%
NIMH	\$560,515	Principal Investigator
PM=3.6		
Blunted and Discordant Affect: A Transdiagnostic Construct in Psychopathology		
To understand common cognitive and neural features of blunted affect in a variety of psychopathologies		
P50MH080215 (Siegle, Project PI, Ryan Center PI)	6/1/08-5/31/13 (NCE)	2.5%
NIMH	\$291,173	Principal Investigator
Cognitive and affective features of youth anxiety: From brain mechanisms to recovery		
Project #1 in CIDAR (Ryan): Transdisciplinary Studies of CBT for Anxiety in Youth		
This project uses fMRI to examine the extent to which brain reactivity to emotional information before treatment is associated with recovery in Cognitive Behavior Therapy for youth anxiety, and whether these patterns of reactivity change upon recovery.		
P50MH080215 (Siegle, Project PI, Ryan Center PI)	6/1/08-5/31/13 (NCE)	2.5%
NIMH	\$155,548	Principal Investigator
Methods Core		
Core #2 in CIDAR (Ryan): Transdisciplinary Studies of CBT for Anxiety in Youth		
This project develops tasks for and supports the use of fMRI to examine brain reactivity to emotional information in anxious youth		
2 P01 AG020677-06A1 (Monk Center PI) – (P/I # 0009965)	4/1/2010 - 3/31/2015	15%
NIA	\$1,497,926	Project Co-Principal Investigator
Aging Well, Sleeping Efficiently		
To identify novel physiological, electrophysiological, genetic and functional neuroanatomical correlates of insomnia in older adults.		
(Siegle)	6/1/2012 - 6/1/2013	MR Pilot Time only
University of Pittsburgh	MR Pilot Time	
Clinically Accessible Assessment of Dopamine System Reactivity		
To optimize a clinically useful electroencephalographic (EEG) measure of dopamine system function using concurrent fMRI/EEG		
1 R01 MH091327-01 (Silk) -- (P/I # 0017741)	7/1/2010 - 6/30/2015	15%
NIMH	\$498,333	Co-Investigator
PM=1.8		
Puberty and Threat/Reward Processing: the Trajectory from Anxiety to Depression		
To address this enormous public health problem by identifying modifiable developmental precursors of depressive disorders during this key period of development.		
1 R01 (Franzen)	7/1/12 - 6/1/2017	5%
NIMH		Co-Investigator

Neural and Behavioral Consequences of Sleep Deprivation

To understand neural and behavioral changes in cognitive and emotional information processing associated with phasic sleep deprivation.

Pending

Recently completed

(Siegle) K02 KMH082998A NIMH Translational Neuroimaging in Unipolar Depression: Towards Personalized Treatment Uses functional magnetic resonance imaging to understand mechanisms of depression and recovery from unipolar depression throughout the lifespan	8/1/08-7/30/13 \$88,637	100% Principal Investigator
M2007-0114 (Siegle) Emmerling Fund, Pittsburgh Foundation Imaging Antidepressant vs. Cognitive Behavior Therapy Effects on Unipolar Depression Uses functional magnetic resonance imaging to identify brain mechanisms predicting treatment response and changes in treatment with antidepressant medications, as compared to Cognitive Behavior Therapy for unipolar depression	7/1/08-6/30/10 (NCE) \$66,432	2% Principal Investigator
(Siegle) University of Pittsburgh School of Medicine Bridge Fund Blunted and Discordant Affect: A Transdiagnostic Construct in Psychopathology To understand common cognitive and neural features of blunted affect in a variety of psychopathologies	12/1/11-6/1/12 \$60,000	20%
1 RO1 MH55762-04 (Steinhauer) NIMH Components of Pupillary Dilation and Cognition Studies examining sympathetic and parasympathetic contributions to pupillary motility in response to cognitive and light stimuli	4/06-3/11 (NCE) \$202,500	3% Co-Investigator
MH056888 (Pilkonis) NIMH Interpersonal Functioning and Emotion in Borderline Personality Uses interviews, self-report, and pupil dilation to understand emotional reactivity and regulation in individuals with borderline personality disorder.	7/1/07-6/30/12 \$427,653	7% Co-Investigator
(Phillips) NIMH Toward the identification of biomarkers of bipolar disorder Uses functional magnetic resonance imaging to identify neuroendophenotypes of bipolar disorder associated with cognitive and emotional information processing, present before and after recovery from depressive episodes.	7/1/07-6/30/12 \$302,490	.5% Co-Investigator
R21 DA024144 (Silk) NIMH Emotion regulation in adolescents: A social affective neuroscience approach Uses novel social neuroscience paradigms during assessment with functional magnetic resonance imaging, pupil dilation, and ecological momentary assessment to understand development of emotion regulation in healthy and depressed adolescents	1/1/08-12/31/11 \$297,000	4% Co-Investigator

1 DP2 OD001210-01 (Szigethy)	9/30/2007 - 8/31/2012	3%
NIMH	\$1,500,000	Co-Investigator
Understanding & Treating Neuropsychiatric Symptoms of Pediatric Physical Illness		
To examine brain regions that underlie emotional and cognitive processing in youth with active IBD and depression using brain functional magnetic resonance imaging compared to youth with IBD and no depression, and normal controls.		
1R01 MH074807 (Siegle)	4/1/06-3/31/11	28.5%
NIMH	\$239,772	Principal Investigator
Functional Neuroanatomy of Recovery from Depression		
This project uses fMRI to examine associations of brain reactivity to emotional information before treatment with recovery in Cognitive Therapy, and whether observed patterns of reactivity change upon recovery.		
2 R01 MH61566 (Siegle)	4/1/05 – 3/31/10	5%
NIMH	\$302,090	Principal Investigator
Sleep Neuroscience in Depression		
This project uses PET and fMRI assessment to test a model of relationships between brain correlates of waking disruptions in emotional and cognitive functioning and sleep disruptions in depression.		
1 R01 MH076079-01 (Aizenstein)	4/1/06 – 3/31/11	2%
NIMH	\$153,686	Co-Investigator
Altered Functioning of Cognitive and Affective Circuits in Late-Life Depression		
The primary aim of this project is to characterize the functional neuroanatomy of geriatric major depression and use the data to explain treatment response variability.		
(Schneider)	5/01/08-5/01-09	1.5%
DARPA	\$400,000	Co-Principal Investigator
Warfighter Affect Management: Connectome Based Prevention and Treatment of PTSD		
Studies of symptom and brain-mechanistic effects of pharmacological augmentation of computer-based behavioral interventions for PTSD		
1 FDN FAM00013-01 (Dombrowski)	9/15/2008 - 9/14/2010	2%
American Foundation for Suicide Prevention	\$36,125	Co-Investigator
Neurobiology of Inhibitory Control in Late-Life Suicide		
To understand whether elderly with depression who have attempted suicide are impaired in their ability to use brain circuits involved in making decisions compared to similarly depressed elderly without past suicide attempts.		
1K01MH/NS64159 (Siegle)	5/1/02 – 5/1/07	100%
NIMH	\$130,632	Principal Investigator
Affective Information Processing in Depression		
Studies examining mechanisms underlying disruptions in emotional information processing in depressed individuals via fMRI, pupil dilation, and computational neural network modeling.		
N00014-05-1-0881 (Schneider)	8/01/05-7/31/07	10%
DARPA	\$1,100,000	Co-Principal Investigator
Mapping Brain Architecture and Processes Supporting Experience Based Cognition		
Studies examining brain processes underlying continuous processing of time-varying cognitive and emotional stimuli (i.e., movies) in healthy individuals via fMRI		
(Siegle)	8/07-8/07	

WPIC Pilot Neuroimaging Program Physiological and brain correlates of spreading activation in semantic networks during worry and rumination Study examining brain function during	8 hours scan time	Principal Investigator
(Siegle)	5/06-4/07	10%
UPMC Pilot Neuroimaging Program Effects of emotion regulation on anterior cingulate cortex activity to performance feedback Studies examining relationships between cognitive and emotional information processing associated with error commission in healthy adults.	20 hours scan time	Principal Investigator
(Siegle)	9/1/03 - 8/30/04	20%
WPIC Mental Health Intervention Research Center Changes in Emotional Processing Following A Cognitive Control Training Intervention for Depression This project examines the feasibility and physiological correlates of using prefrontal cortex exercises to improve emotion regulation in depressed individuals.		Principal Investigator
(Siegle)	9/1/03-8/30/04	10%
UPMC Pilot Neuroimaging Program Conditions eliciting enhanced and decreased amygdala activity to emotional faces	20 hours scan time	Principal Investigator
This project examines factors affecting the time course of amygdala activity elicited in response to emotional faces in depressed and never depressed individuals.		
(Siegle)	7/1/01 - 6/30/03	20%
NARSAD Affective Neuroscience of Emotion and Conflict Processing in Depression		Principal Investigator
This project uses computational modeling, physiological, and neuroimaging assessment to understand and differentiate brain mechanisms associated with processing emotion and conflict-related information in depressed and never-depressed individuals.		
(Siegle)	4/1/01 - 3/31/02	20%
Veteran's Research Foundation Physiological and Neuroimaging Assessment of Emotional Information Processing in Depression This project examined relationships between pupillary and fMRI correlates of emotional information processing. Studies examine reliability of pupil dilation in response to affective stimuli and the feasibility of collecting pupil dilation data during fMRI assessment.		Principal Investigator
R01 MH55762-04 (Steinhauer) NIMH Components of Pupillary Dilation and Cognition This research involves testing and elaboration of a model of cognitive activation leading to modulation of peripheral autonomic functioning.	1/1/00-12/31/03	5% Co-Investigator
(Siegle) Sigma Xi Affective Interference: Cause for Negative Attention Biases in Depression This research examines pupil dilation in response to emotional information in depression	6/98-6/99 \$100	Principal Investigator
(Steinhauer) Department of Veterans Affairs	10/00-9/04	10% Co-Investigator

Neurocognitive and Affective Components of Schizophrenia

Studies examining psychophysiological responses in schizophrenic patients during cognitive and emotional information processing tasks, in comparison to other psychiatric patients and controls

Research Experience

My research program investigates cognitive and physiological mechanisms associated with individual differences in emotional information processing in depression, from basic research to understanding recovery, and the creation of neuroscience-based interventions. This process has involved using biologically motivated computational neural network models as hypothesis generation tools, and empirical testing in which depressed and never-depressed individuals are evaluated on information-processing tasks, during behavioral, physiological, and neuroimaging assessment as well as meta-analytic research syntheses.

1999 – present **Program in Cognitive Affective Neuroscience (PICAN), Western Psychiatric Institute and Clinic, Pittsburgh**

My lab examines physiological mechanisms of emotional information processing in healthy individuals and individuals with psychopathology through behavioral, physiological and functional magnetic resonance imaging (fMRI) assessment, as well as computational neural network modeling, during acute episodes and during and after recovery, in cognitive behavior therapy and new neuroscience-derived behavioral treatments. Physiological assessment techniques include pupil dilation, event-related potentials (ERPs), electromyography (EMG), heart rate, and respiration. Primary collaborators include Michael Thase, M.D., Stuart Steinhauer, Ph.D., Ronald Dahl, M.D., Neal Ryan, M.D., Jennifer Silk, Ph.D., Eric Nofzinger, M.D., Howard Aizenstein, M.D., Ph.D., Wesley Thomson, Ph.D., Eva Szegedy, M.D., Peter Franzen, Ph.D., Martica Hall, Ph.D., and Ruth Condray, Ph.D.

1998 – 1999 **Clarke Institute of Psychiatry, Toronto.**

With Zindel Segal, Ph.D. I examined effects of rumination on outcome of cognitive behavioral therapy for depression. With Shitij Kapur, M.D. I created novel indices to represent binding kinetics for dopamine occupancy studies.

1993 – 1999 **Cognitive Clinical Assessment Lab, San Diego State University.**

With Rick Ingram, Ph.D. I investigated information processing biases in individuals with features of depression, relationships between cognitive aspects of depression and other psychopathologies, aspects of personality, ethnicity, and ethnic identity.

1993 – 1999 **Pupillometry Lab, University of California, San Diego.**

With Eric Granholm, Ph. D. I used pupil dilation to investigate cognitive correlates of psychopathology and the relationship of peripheral physiology to fMRI.

1993 – 1999 **Measurement Lab, San Diego State University.**

With Georg Matt, Ph. D., I investigated rigorous methods of representing mental processes. This research centered on evaluating the validity of computational models of mental disorder, using fuzzy sets to represent memory for health related behaviors and meta-analyses of cognitive and treatment-outcome data.

1993 **Chicago Followup Study, University of Illinois at Chicago.**

With Martin Harrow, Ph. D., I used neural network theory to explain the role of task difficulty in producing bizarre responses from individuals with schizophrenia. Additionally I provided computer support for the Chicago Followup Study, a longitudinal study of schizophrenia and depression.

1992-1993 **Institute for the Learning Sciences, Northwestern University.**

With Clark Elliott, Ph. D., I modeled emotional reasoning processes on a computer with Clark Elliott. We were especially interested in modeling mood intensity, and the relationship of depression to creativity.

1991-1993 **Institute for the Learning Sciences, Northwestern University.**

- With Ken Forbus, Ph. D., and Dedre Gentner, Ph. D., I created computational models of qualitative and analogical reasoning and created visual abstractions of analogical processes.
- 1990-1991 **Cognitive Science Department, Brown University.**
With Bill Warren, Ph. D., and Heinrich Bulthoff, Ph. D., I investigated the psychological and physiological bases of visually perceived transformations. I tested the hypothesis that people have multiple cognitive mechanisms for understanding continuous visually perceived change, based on the rate at which it occurs. Results were tied to neurophysiological research and ecological perceptivism.
- 1989 – 1991 **Artificial Intelligence Group, Brown University.**
With Tom Dean, Ph. D., I investigated models of temporal cognition in continuous event systems and robot control in such systems, and designed a graphical robot control simulator.

Clinical Experience

- 2009-present **Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine**
Lead monthly Neuroscience / Clinical case conference meetings for psychotherapists and pharmacotherapists in which brain imaging data is used to inform treatment along with clinical information.
- 2003-2007 **Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine**
Piloted a Cognitive Control Training intervention for depression that involves completion of cognitive tasks that could improve emotion regulation.
- 2001-present **Western Psychiatric Institute and Clinic, University of Pittsburgh School of Medicine**
Supervisors: Sandar Kornblith, Ph.D., Jennifer Silk, Ph.D., Leslie Sokol, Ph.D. (Beck Institute)
I perform and supervise individual Cognitive Therapy for depression.
- 1998-1999 **Clarke Institute of Psychiatry, Toronto** Supervisors: Zindel Segal, Ph. D., Laurie Gillies, Ph. D., Bruce Christensen, Ph. D.
I completed the Clarke Institute’s APA approved clinical internship. Responsibilities included providing individual cognitive behavioral therapy for depression and interpersonal therapy for depression and borderline personality disorder, as well as neuropsychological testing. I attended weekly rounds, performed intakes, suitability assessments, and structured diagnostic interviewing.
- 1997 **Mental Health Clinical Research Center, UCSD** Supervisor: Chris Gillin, M.D.
Evaluating appropriateness of individuals for clinical research, screening depressed individuals for appropriateness for Cognitive Behavioral Group Therapy treatment, evaluating individuals on novel neuropsychological tasks. Attend weekly inpatient and outpatient rounds for VA depression research unit.
- 1995-1997 **Mood Clinic, San Diego VA Medical Center** Supervisor: John McQuaid, Ph. D.
Providing individual, couples, and group Cognitive Behavioral Therapy to veterans with features of depression, anxiety, and PTSD. Co-led “Cognitive Therapy for Depression” group. Provided psychological consultations to the VA spinal-cord-injury unit for patients with depression. Developed an auditory virtual reality intervention for PTSD in which patients are able to control the onset, volume, and character of auditory experiences relevant to triggers for their PTSD in the course of systematic desensitization. Screened patients for appropriateness for Cognitive Behavioral Therapy.
- 1995-1996 **PTSD Unit, San Diego VA Medical Center** Supervisor: Jeff Matloff, Ph. D.
Provided outpatient therapy to veterans with PTSD. Other responsibilities included screening for appropriateness for groups and individual therapy, and administering and scoring a number of measures relevant to PTSD. Provided psychological consultations to

- the VA spinal-cord-injury unit. Developed computer programs to score a large number of PTSD measures regularly administered to veterans.
- 1994-1995 **Outpatient Clinic, San Diego State University** Supervisor: Jeannine Feldman, Ph. D. Provided outpatient counseling to individuals and couples from the San Diego community. Counseling was done using a variety of theoretical orientations.
- Summer 1994 **Psychiatric Inpatient Unit, UCSD Medical Center** Supervisor: William Perry, Ph. D. Provided neuropsychological consultation services for an 18 bed inpatient psychiatric unit on which all patients received brief neuropsychological screens. Performed neuropsychological and psychodiagnostic evaluations of inpatients with a wide variety of disorders. Led two hour group for patients on the unit.

Other Professional Experience

- 1986 – 2001 **President**, Small Miracles Consulting (a private consulting firm). Statistical data analysis and survey design, graphics, artificial intelligence programming, database design, system consulting.
- 1993 **Consultant**, Uni*Quality. Programming risk-analysis software for an international trading firm. Programming was done in Lisp and C. Graphic interfaces were developed in LispView. Database programming was done in SQL running on Sybase. Programs ran on Sun Sparc workstations.
- 1990 (summer), **Programmer/Analyst**, Institute for the Learning Sciences. Modeling qualitative reasoning and human analogical reasoning, developing graphic interface software in Lisp with CLIM for a “modeler’s workbench” which allows users to analyze qualitative and numerical models of physical systems, and creating educational software for use in schools and large corporations. All programs ran on IBM RISC/6000 workstations.
- 1991 – 1992
- 1988 – 1991 **Computer Consultant**, Brown University Computer Science Department. Maintaining and supporting Apollo and Sun software and hardware
- 1988 **Consultant/Programmer**, Abbott Laboratories. Software, system consulting, LOTUS 123 programming, accounting.
- 1984 – 1985 **Programmer**, The OMEGA Group. Developing user friendly graphical analysis software for analog to digital conversion

Editorial and Service Responsibilities

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|---|--------------|
| Program Committee, <i>Society for Affective Science 2013 Meeting</i> | 2012-present |
| Program Chair, <i>Neurocognitive Therapies and Translational Research Institute</i> for the 2013 meeting of the Association for Behavioral and Cognitive Therapy | 2012-present |
| Member – NIH Study Section APDA – Adult Psychopathology and Disorders of Aging | 2011-present |
| Board Member – Psychology and Spirituality Lecture Series, <i>Pittsburgh Theological Seminary</i> | 2011-present |
| Board Member – Art / Science Collaboration Initiative, <i>Carnegie Art Institute</i> | 2011-present |
| Program Committee, <i>Developmental Affective Neuroscience 2012 Meeting</i> | 2011-2012 |
| Program Committee, <i>Society for Psychophysiological Research 2012 Meeting</i> | 2011-2012 |
| Ad hoc reviewer – NIMH Study Section convened to review applications submitted under PAR 11-177, Translational Research for the Development of Novel Interventions for Mental Disorders | 2012 |
| Ad hoc reviewer – NIMH Study Section ZMH1 ERB-L-04 Biobehavioral Research Awards for Innovative New Scientists (BRAINS) RFA | 2011 |
| Scientific Advisor and Executive Board Member, Neurocognitive and Translational Special | 2010-present |

Interest Group for the <i>Association for Behavioral and Cognitive Therapies</i>	
Program Committee, <i>Society for Psychophysiological Research 2010 Meeting</i>	2009-2010
Ad hoc reviewer – NIMH Study Section ZRG1 BBBP-R (50)R – Science of Behavior Change RFA	2010
Program Chair, <i>International Pupil Colloquium</i>	2009
Ad hoc reviewer – NIH ITVA ARRA Challenge supplement Study Section	2009
Ad hoc reviewer – NIH Challenge Study Section (ZRG1 RPHB-E (58) R)	2009
Attendee, NIH <i>Science of Behavior Change</i> Planning meeting	2009
Editorial Board, Pittsburgh Brain Activity Interpretation Competition (2009) - Inferring Connectivity from neuroimaging contest. Workshop and awards presented at the meeting of the Organization for Human Brain Mapping, Chicago, IL.	2009
Co-chair, <i>Society for Psychophysiological Research</i> Student Fellowship Award committee	2008-2009
Member, <i>Society for Psychophysiological Research</i> Student Fellowship Award committee	2008
Chair, <i>Society for Psychophysiological Research</i> Student Fellowship Award establishment committee	2007-2008
Member, NIMH Study Section (ZRG1 F12B) Psychopathology, Developmental Disabilities, Stress and Aging Fellowship Study Section	2007-2011 (~3 mtgs/year)
NIMH Study Section – Translational Research in the Relationship of Anxiety and Depression RFA	2007, 2x, 2008, 1x
Associate Editor, <i>Encyclopedia of Depression</i>	2007-2008
Consulting Editor, <i>Journal of Abnormal Psychology</i>	2006-present
Associate Editor, <i>Cognitive Therapy and Research</i>	2006-2007
NIDA Study Section – Social Neuroscience RFA	2006
Editorial board, <i>Journal of Consulting and Clinical Psychology</i>	2004-present
Editorial board, <i>Cognitive Therapy and Research</i>	1999-2006
NIDA Study section – Neuroscience of Behavioral Interventions RFA	2005
NIH Study section (BDCN-2) ad hoc reviewer	2003,2004
Guest Editor of special issue on Depressive Rumination for <i>Cognitive Therapy and Research</i>	2003
Reviewer for 7 th International Conference on Knowledge-Based Intelligent Information & Engineering Systems	2003
WPIC seed grant committee (<i>committee largely defunct since 2009</i>)	2003-present
Ad hoc reviewer for various foundation grants and protocols including Ontario Mental Health Foundation, University of Wisconsin Milwaukee Research Growth Initiative, Hospital for Sick Children Foundation in Toronto, VA VISN grants, Ethel F. Donaghue Women's Health Investigator Program at Yale University, NIH intramural protocols, University of Pittsburgh Psychology Department protocols	2002-present
Ad hoc reviewer, VA Pittsburgh research committee	2000-2008
Ad hoc reviewer, WPIC research committee	1999-present
Web Master, Connectionist Models of Cognitive, Affective, Brain, and Behavioral Disorders	1998-present
Program Committee, International Workshop on Neural Network Models of Cognitive and Brain Disorders.	1997- 1998
Notes and Announcements Editor, <i>Cognitive Therapy and Research</i>	1996- 2003
Web Master, <i>Cognitive Therapy and Research</i> , currently a supplemental information site	1996- 2003
Web Master, Cognitive Clinical Assessment Lab, San Diego State University	1995-1999
Ad hoc Editorial Reviews for <i>American Journal of Psychiatry</i> , <i>Archives of General Psychiatry</i> , <i>Behavioral Neuroscience</i> , <i>Biological Psychiatry</i> , <i>Biological Psychology</i> , <i>Brain and Cognition</i> , <i>Cognition and Emotion</i> , <i>Cognitive, Affective, and Behavioral Neuroscience</i> , <i>Cognitive Therapy and Research</i> ,	1994-

Clinical Psychology Review, Cognitive Processing, Emotion, European Journal of Neuroscience, Human Brain Mapping, IEEE Engineering in Medicine and Biology, International Journal of Psychophysiology, Journal of Abnormal Psychology, Journal of Affective Disorders, Journal of Consulting and Clinical Psychology, Journal of Experimental Psychology – Applied, Neuroimage, Psychological Assessment, Psychiatry Research – Neuroimaging, Psychophysiology