

## JACK B. NITSCHKE

### ADDRESS

Departments of Psychiatry & Psychology	Email: jnitschke@wisc.edu
Wisconsin Psychiatric Institute and Clinics	Research phone: 608-262-8600
University of Wisconsin	Research fax: 608-262-9440
6001 Research Park Boulevard	Clinic phone: 608-263-6083
Madison, WI 53719	Clinic fax: 608-263-0265

### EDUCATION

University of Illinois, Champaign, IL	<i>July, 1998</i>
Degree: Ph.D. in Clinical Psychology	
Title: Differentiating Types of Anxiety, Depression, and their Co-occurrence: Regional Brain Activity and Life Stress	
University of Illinois, Champaign, IL	<i>October, 1994</i>
Degree: M.A. in Clinical Psychology	
Title: Moderating Effects of Extraversion on EEG Activity in Anxiety	
University of Pennsylvania, Philadelphia, PA	<i>May, 1989</i>
Degree: B.A., Magna Cum Laude in Psychology (Minor: Non-Western History)	

### AWARDS AND HONORS

NIMH K02 Research Career Award, 2008  
NARSAD Young Investigator Award, 2005  
NIMH K08 Research Career Award, 2002  
HealthEmotions Research Institute Fellowship, 2002  
Selected for the 2001 Positive Psychology Summer Training Institute  
Positive Psychology Summer Training Institute Research Award, 2000  
Postdoctoral Trainee, NIMH Training Program in Emotion Research, 1998-2001  
UIUC Herman Eisen Memorial Award for Outstanding Professional Contributions, 1998  
UIUC Graduate College Dissertation Completion Fellowship, 1997-1998  
UIUC University Fellowship, 1997-1998 (declined)  
APA/Psi Chi Edwin B. Newman Graduate Research Award, 1997  
Selected as Department of Psychology representative for University Fellowship funding, 1997  
UIUC List of Teachers Ranked as Excellent by Their Students, Spring 1997  
Predoctoral Trainee, NIMH Quantitative Training Program, 1993-1996  
Honors Society of Phi Kappa Phi, 1996  
UIUC Ed Scheiderer Memorial Award for Outstanding Research or Scholarship, 1994  
UIUC Graduate College Thesis/Project Grant, 1994

**RESEARCH SUPPORT**Current

NIH/NIMH R01 Neuroanatomy of Anticipation in Anxiety Disorders Role: Principal Investigator	7/20/2005 - 6/30/2010 \$1,062,500 (total direct costs)
NIH/NIMH K02 Research Career Award Brain Mechanisms of Anticipatory Processing in Anxiety Disorders Role: Principal Investigator	8/1/2008 - 7/31/2013 \$430,783 (total direct costs) 75% salary only
Dana Foundation Pathophysiological Mechanisms of PTSD in Soldiers Returning from Afghanistan and Iraq: Neuroimaging and Treatment Role: Principal Investigator	7/1/2009 - 6/30/2012 \$200,000 (total direct costs)
UW Institute for Clinical and Translational Research Neuroimaging and Treatment of PTSD in Soldiers Returning from Afghanistan or Iraq Role: Principal Investigator	9/1/2009 - 8/31/2010 \$50,000 (total direct costs)
UW School of Medicine and Public Health Neuroanatomy of Anticipation in Anxiety Disorders Role: Principal Investigator	7/1/2009 - 6/30/2010 \$25,684 (total direct costs)
UW Graduate College Neuroanatomy of PTSD in Soldiers Returning from Iraq and Afghanistan: Brain Imaging and Treatment Role: Principal Investigator	7/1/2010 - 6/30/2011 \$38,240
NIH/NIMH F32 (PI: Oathes, Desmond) Temporal Dynamics of Emotional Processing in Anxiety Role: Sponsor	7/01/2009 - 6/30/2011 \$108,214 (total direct costs)
NIH/NIAMS R01 (PI: Cook, Dane) Imaging the Cognitive Modulation of Pain in Fibromyalgia Role: Co-Investigator	9/16/2005 - 6/30/2010 \$940,500 (total direct costs)
NIH/NIMH RC1 Challenge Grant (PI: Meyerand, Elizabeth) Validating Resting State fMRI Derived Brain Connectivity Role: Consultant	9/30/2009 - 8/31/2011 \$746,801 (total direct costs)

Pending

NIH/NIMH R01	4/1/2010 - 3/31/2015
Neuroimaging and Treatment of PTSD in Soldiers Returning from Afghanistan or Iraq	\$1,451,986 (total direct costs)
Role: Principal Investigator	
Department of Defense	7/1/2010 - 6/30/2013
Neuroimaging and Treatment of Combat-related PTSD in OEF/OIF Veterans: Cognitive Processing Therapy versus Medication	\$1,350,000
Role: Principal Investigator	

Completed

NIH/NIMH K08 Research Career Award	9/1/2002 - 8/31/2008
Functional Neuroimaging of Anxiety and Fear (1-year no cost extension covering research expenses)	\$539,058 (total direct costs) includes 80% of salary
Role: Principal Investigator	
NARSAD Young Investigator Award	7/1/2005 - 6/30/2008
Functional Neuroanatomy of Anticipation Abnormalities in Social Anxiety Disorder (1-year no cost extension covering research expenses)	\$60,000 (total direct costs)
Role: Principal Investigator	
Fetzer Institute	6/1/2002 - 12/31/2004
Brain Circuitry of Altruistic Love	\$100,000 (total direct costs)
Role: Principal Investigator	
NIH/NICHD R03 (PI: Abbeduto, Len)	7/1/2005 - 6/30/2007
Maternal Emotional Well-Being and Fragile X Syndrome	\$100,000 (total direct costs)
Role: Consultant	
HealthEmotions Research Institute Fellowship, 2002-2003	
Positive Psychology Summer Training Institute Research Award, 2000	
Postdoctoral Trainee, NIMH Training Program in Emotion Research, 1998-2001	
UIUC Graduate College Dissertation Completion Fellowship, 1997-1998	
UIUC University Fellowship, 1997-1998 (declined)	
Predocotrinal Trainee, NIMH Quantitative Training Program, 1993-1996	
UIUC Graduate College Thesis/Project Grant, 1994	

**RESEARCH AND PROFESSIONAL EXPERIENCE**

- 2003-present Assistant Professor, Department of Psychiatry, University of Wisconsin-Madison
- 2003-present Assistant Professor, Department of Psychology, University of Wisconsin-Madison
- 2002-2003 Assistant Scientist, Waisman Center, University of Wisconsin-Madison
- 2001-2002 Assistant Scientist, Department of Psychology, University of Wisconsin-Madison
- 1999-2003 Postdoctoral Clinician, Department of Psychiatry, University of Wisconsin Psychiatric Institute & Clinics, University of Wisconsin-Madison
- 1998-2001 Postdoctoral Fellow, Department of Psychology, University of Wisconsin-Madison
- Advisor: Richard J. Davidson, Ph.D.
- 1995-1998 Dissertation Research. Brain activity and life stress in anxiety and depression. 1) Psychometric study distinguished specific types of depression and anxiety in 783 undergraduates. 2) EEG study compared patterns of regional brain activity at rest in anhedonic depression, anxious arousal, and anxious apprehension. Diathesis-stress formulation tested via examination of interactions with life stress.
- Advisors: Wendy Heller, Ph.D., Gregory A. Miller, Ph.D.
- 1995-1998 Project Coordinator/Graduate Student Research Assistant. Brain-behavior relations in depression and anxiety. NIMH-funded project examined EEG at rest and during emotional narratives, neuropsychological task performance, and cognitive function in a 5-group design comparing different types of depression and anxiety.
- Principal Investigators: Wendy Heller, Ph.D., Gregory A. Miller, Ph.D.
- 1997-1998 Graduate Student Research Assistant. Brain activity and Stroop performance. Functional MRI study conducted to localize brain regions activated during performance of a modified Stroop task.
- Principal Investigator: Marie T. Banich, Ph.D.
- 1993-1995 Project Coordinator/Graduate Student Research Assistant. Brain-behavior relations in depression and anxiety. NIMH-funded project examined EEG at rest and during emotional narratives, neuropsychological task performance, and cognitive function for depressed, anxious, comorbid,

and control groups.

Principal Investigators: Wendy Heller, Ph.D., Gregory A. Miller, Ph.D.

1993-1995 Graduate Student Research Assistant. Right posterior function and arousal. Study examined the relationship between performance on a face-processing task tapping posterior brain function and dimensions of mood.

Principal Investigator: Wendy Heller, Ph.D.

1993-1994 Master's Thesis Research. Brain activity and extraversion in anxiety. Study examined the moderating effects of extraversion on patterns of brain activity in anxiety.

Advisors: Gregory A. Miller, Ph.D., Wendy Heller, Ph.D.

## TEACHING EXPERIENCE

- 2003-present Course Instructor. Biology of Psychopathology and Intervention (Psych 711). Seminar for Clinical Psychology interns, Psychiatry residents, and Psychology and Neuroscience graduate students. Responsibilities include course curriculum, designing and updating syllabus each year, making syllabus and class readings available on the web ([http://psychiatry.wisc.edu/courses/Nitschke/2009\\_bio\\_psycho\\_class/](http://psychiatry.wisc.edu/courses/Nitschke/2009_bio_psycho_class/)), lecturing, and leading discussions. Course covers neurobiology (including structural and functional neuroanatomy, neurochemistry, HPA axis) and genetics in the etiology, pathophysiology, and treatment of a wide range of psychopathology, including depression, anxiety, schizophrenia, addictions, eating disorders, psychopathy, and childhood disorders.
- 2009 Guest Lecturer. Anxiety and the Brain. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2009 Guest Lecturer. Psychopathology in Adolescence: Anxiety, Mood, Eating Disorders, Self-harm Behaviors, and the Brain. AP Psychology class (First Hour, May 22). Verona High School, Verona, WI.
- 2009 Guest Lecturer. Psychopathology in Adolescence: Anxiety, Mood, Eating Disorders, Self-harm Behaviors, and the Brain. AP Psychology class (Second Hour, May 22). Verona High School, Verona, WI.
- 2009 Guest Lecturer. Psychopathology in Adolescence: Anxiety, Mood, Eating Disorders, Self-harm Behaviors, and the Brain. AP Psychology class (Third Hour, May 22). Verona High School, Verona, WI.
- 2009 Guest Lecturer. Psychopathology in Adolescence: Anxiety, Mood, Eating Disorders, Self-harm Behaviors, and the Brain. AP Psychology class

- (Fourth Hour, May 22). Verona High School, Verona, WI.
- 2009 Guest Lecturer. Mental Disorders and Adolescence. AP Psychology class (First Hour, January 12). Verona High School, Verona, WI.
- 2009 Guest Lecturer. Mental Disorders and Adolescence. Adolescent Psychology class (Second Hour, January 12). Verona High School, Verona, WI.
- 2009 Guest Lecturer. Mental Disorders and Adolescence. AP Psychology class (Third Hour, January 12). Verona High School, Verona, WI.
- 2008 Guest Lecturer. Neuroimaging in Anxiety and Depression. Seminar on Functional Neuroimaging and Clinical Applications (Neurosci 675) for Neuroscience and Psychology graduate and undergraduate students.
- 2007 Guest Lecturer. Neuroimaging in Anxiety and Depression. Seminar on Functional Neuroimaging and Clinical Applications (Neurosci 675) for Neuroscience and Psychology graduate and undergraduate students.
- 2007 Guest Lecturer. The Power of Expectancy, Anxiety, and the Brain. Seminar for Undergraduate Honors Program in Department of Psychology.
- 2007 Guest Lecturer. Treatment of Chronic Patients. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2007 Guest Lecturer. Systems in psychology's past, present and future. Seminar on History of Psychology for Clinical Psychology graduate students in the Department of Psychology.
- 2006 Guest Lecturer. Neuroimaging in Anxiety and Depression. Seminar on Neuroimaging of Cognitive Disorders (Neurosci 675) for Neuroscience and Psychology graduate and undergraduate students.
- 2006 Guest Lecturer. The Power of Expectancy, Anxiety, and the Brain. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2005 Guest Lecturer. Examination for the Practice of Professional Psychology and Applying for Licensure. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2005 Guest Lecturer. Understanding Anxiety and Depression: Turning to the Brain for Answers. Seminar for Undergraduate Honors Program in Department of Psychology.

- 2005            Guest Lecturer. Psychotherapy with Chronic Patients. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2004            Guest Lecturer. Functional Imaging of Mood and Depression. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2004            Guest Lecturer. Psychotherapy with Chronic Patients. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2004            Guest Lecturer. Emotion, Disorders of Emotion, and the Brain: Dissecting the Constituent Features of Anxiety and Depression. Seminar for Undergraduate Honors Program in Department of Psychology.
- 2003            Guest Lecturer. Emotion, disorders of emotion, and the brain: Dissecting the constituent features of anxiety and depression. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 1998-present   Research Supervisor. Directed activities of multiple (>30) advanced undergraduate research assistants in various research studies.
- 1995-1998      Instructor. Adolescent Psychopathology and Intervention. Discussion-based practicum course for upper-level undergraduate students participating in Adolescent Mentoring Program. Responsibilities included developing full-year course curriculum, facilitating class discussion, group and individual supervision, office hours, writing exams (essay), and grading (weekly writing assignments, psychosocial summaries, case presentations, final exams).
- 1993-1996      Research Supervisor. Directed activities of four advanced undergraduate research assistants for two large NIMH-funded projects.
- 1992-1993      Teaching Assistant. Abnormal Psychology. Lecture course for approximately 200 undergraduates. Responsibilities included giving lectures, office hours, writing exams (multiple choice), and conducting review sessions.

## CLINICAL EXPERIENCE

- 2005-present   Licensed Clinical Experience. Department of Psychiatry, Wisconsin Psychiatric Institute & Clinics, Madison, WI. Psychologist License for the State of Wisconsin granted in April, 2005 (No: 2537 - 057). 1) Adult and adolescent individual psychotherapy with an emphasis on cognitive-behavioral, exposure, interpersonal, and insight-oriented approaches. Clinic practice primarily focuses on anxiety disorders, although a range of

disorders represented, including unipolar and bipolar depression, schizoaffective disorder, eating disorders, and personality disorders. 2) Psychotherapy supervision of Clinical Psychology interns and Psychiatry residents.

1999-2005

Postdoctoral Clinical Experience. Department of Psychiatry, Wisconsin Psychiatric Institute & Clinics, Madison, WI. 1) Adult and adolescent individual psychotherapy with an emphasis on cognitive-behavioral methods, interpersonal psychotherapy of depression developed by Gerald Klerman and Myrna Weissman, and interpersonal reconstructive therapy developed by Lorna Benjamin. 2) Adult group and individual psychotherapy using Dialectical Behavior Therapy developed by Marsha Linehan. 3) Adult assessment using a wide array of instruments, including the Structured Clinical Interview for DSM-IV (SCID), Hamilton Rating Scale for Depression (HRSD), Hamilton Anxiety Rating Scale (HAM-A), Scale for the Assessment of Negative Symptoms (SANS), and Parasuicidal History Interview.

Supervisors: Gregory G. Kolden, Ph.D., Sarah Chisholm-Stockard, Ph.D., Katherine M. Putnam, Ph.D.

1995-1998

Predocloral Clinical Experience following M.A. in Psychology. Department of Psychology, Psychological Services Center, Champaign, IL. 1) Adolescent and adult individual psychotherapy with an emphasis on systems theory and cognitive-behavioral methods. 2) Family co-therapy with an emphasis on psychodynamic and cognitive-behavioral approaches. 3) Cognitive-behavioral group psychotherapy for depressed adolescents, in Champaign area middle school. Other responsibilities included supervising undergraduate co-facilitator, program evaluation, and networking with school officials. 4) Neuropsychological assessments for children, adolescents, and adults, including testing, home and school observations, intake interviews, feedback sessions, report writing, and court testimony. 5) Founded and directed the Adolescent Mentoring Program. Developed full-year course curriculum for 15 upper-level psychology undergraduates taught by three advanced graduate students (including me). Other responsibilities included group and individual supervision, crisis intervention, readings on adolescent psychopathology and intervention, program evaluation, networking with Champaign area mental health agencies, psychiatric facilities, and school psychologists and social workers.

Supervisors: Wendy Heller, Ph.D., Thom Moore, Ph.D., Karen Rudolph, Ph.D., Marty Traver, Ph.D.

1993-1994

Graduate School Clinical Practica prior to M.A. in Psychology. Department of Psychology, Psychological Services Center, Champaign, IL. Adult individual psychotherapy with an emphasis on cognitive-behavioral and psychodynamic approaches.

Supervisor: Gregory A. Miller, Ph.D., Fred H. Kanfer, Ph.D.

1993 Mental Health Technician. Cunningham Children's Home, Urbana, IL. Quarter-time position supervising milieu activities and implementing treatment plans of adolescents in residential care.

1991-1992 Mental Health Technician. Adolescent unit, Bethany Pavilion, Oklahoma City, OK. Half-time position supervising milieu activities and implementing treatment plans of adolescents in acute care.

Supervisor: Deborah D. Hill, R.N.

### MENTORING/ADVISING/SUPERVISION

Current:

Desmond Oathes, postdoctoral fellow, 2006-present  
 Deborah Kerr, graduate student, 2004-present  
 Daniel McFarlin, information processing specialist, 2007-present  
 Daniel Grupe, graduate student, 2008-present  
 Ishmael Amarreh, graduate student, 2009-present

Past:

Sid Sarinopoulos, postdoctoral fellow, 2001-2004  
 Sid Sarinopoulos, assistant scientist, 2004-2007

Dissertation Committees, Department of Psychology, 2004-present:

Jerry Haeffel	Donald McLaren
Alex Shackman	Tim Salomons
Hyejeen Lee	Robin Nusslock
Max Maxwell	Sarah Short
Joanne Hogle	Deborah Kerr
Stephanie Schell	Christine Moberg

Specialty Prelims Committees, Department of Psychology, 2006-present:

Rebecca Gloria	Jessica Kirkland
Tim Salomons	Christine Moberg
Deborah Kerr	

Clinical Advising Committees, Department of Psychology, 2007-present:

Deborah Kerr	Rebecca Gloria
Jessica Kirkland	Christine Moberg

First-year Project Committees, Department of Psychology, 2005-present:

Deborah Kerr	Christine Moberg
Gregory Dixon	Kathryn Hefner
Dan Grupe	Daniel Bradford

Individualized Graduate Major (IGM) Committees, Department of Psychology, 2005-present:  
 Lisa Lindeman Dan Grupe

Neuroscience Training Program Committees, 2008-present:  
 Donald McLaren

Hilldale Undergraduate/Faculty Research Fellowship:  
 Kristen Mackiewicz, 2002-2003

Trewartha Senior Thesis Award:  
 Craig Marquardt, 2009-2010

Undergraduate Honors Thesis, Department of Psychology, 2002-present:  
 Kristen Mackiewicz Brett Rusch  
 Craig Marquardt

Undergraduate Research Scholar Program, University of Wisconsin, 2004-present:  
 Mai Youa Lor Allison Schaus  
 Krista Bluske

Biology Mentored Research Course, Department of Biology, 2001-present:  
 Alissa Possin Danielle Greene  
 Krista Bluske Melissa Schmidt  
 Allison Schaus Lindsay Thomes

Psychotherapy supervision, Department of Psychiatry, 2003-present:

<u>Psychiatry residents</u>	<u>Clinical Psychology interns</u>	<u>Clinical Psychology practicum students</u>
Chris Nevers	John Herrington	Sandra Japuntich
Jyotila Singh	Tanya Schlam	Allison Jahn
Rod MacDonald	Arnica Buckner	
Justin Schoen	Jeshmin Bhaju	
Qazi Javed	Nate Miller	
Joe Marzano	Kim Nylen	
Erin Curtis	Lori Hilt	
Chris Moore	Kate Stroud	
Gayatri Vaidyanathan	Erica Carlin	
Chienhua Clarke		
Tim Cordes		
Fred Langheim		
Chris Bermant		

Neuroimaging Rotation, Psychology Internship, Department of Psychiatry, 2006-present:  
 John Herrington Nate Miller  
 Kate Stroud Lori Hilt  
 Chris Nicholas Betsy Frei

**PROFESSIONAL AND DEPARTMENTAL SERVICE**

Faculty Search Committee, Medical School, 2009  
 Clinic Director Search Committee, Department of Psychology, 2008  
 Neuroscience Area Oversight Committee, Medical School, 2008  
 Program Committee, Society for Research in Psychopathology, 2007  
 Equity and Diversity Committee, Waisman Center, 2005-present  
 Internship Training Committee, Department of Psychiatry, 2004-present  
 Education Committee, Society for Psychophysiological Research, 2004-2005  
 Dissertation Committees (9 students), 2004-present  
 Specialty Prelims Committees (4 students), Department of Psychology, 2006-present  
 First-year Project Committees (3 students), Department of Psychology, 2005-present  
 Founder and director of the UIUC Adolescent Mentoring Program, 1995-1997  
 Adolescent Mentoring Program representative at Champaign Agency Reception, 1996-1997  
 Group facilitator for I COPE at Edison Middle School, 1997  
 UIUC Graduate Admissions Committee, 1996

## JOURNAL EDITORIAL CONSULTING

2010 Cerebral Cortex, Journal of Personality and Social Psychology  
 2009 American Journal of Psychiatry (4), American Psychologist, Archives of General Psychiatry, Biological Psychiatry (3), Cognitive, Affective, and Behavioral Neuroscience, European Journal of Neuroscience, Human Brain Mapping, Psychoneuroendocrinology, Social Cognitive and Affective Neuroscience  
 2008 American Psychologist, Biological Psychiatry (2), Emotion, European Journal of Neuroscience, Journal of Abnormal Psychology, Journal of Neuroscience (2), Journal of Personality and Social Psychology, NeuroImage (3), Neuron, Psychoneuroendocrinology  
 2007 American Journal of Psychiatry, American Psychologist, Archives of General Psychiatry (3), Biological Psychiatry (2), Chemical Senses, Emotion, International Journal of Psychophysiology, Journal of Abnormal Psychology (3), Journal of Neuroscience, Journal of Personality and Social Psychology, NeuroImage (2)  
 2006 American Journal of Psychiatry (2), Brain, Behavior, and Immunity (3), European Journal of Neuroscience (2), Experimental Brain Research (2), International Journal of Psychophysiology, Journal of Abnormal Psychology, Journal of Integrative Neuroscience, Journal of Psychiatric Research (3), NeuroImage (6), Psychological Science  
 2005-06 Co-editor for Named Series in Brain, Behavior, and Immunity entitled “Brain Mechanisms of Placebo”  
 2005 Behavioral Neuroscience, Biological Psychology, Brain, Behavior, and Immunity (4), Emotion, Human Brain Mapping, Journal of Abnormal Psychology (2), NeuroImage (2), Psychophysiology  
 2004 Biological Psychiatry (3), Biological Psychology, Cognitive Therapy & Research, Cortex, Emotion, Psychoneuroendocrinology  
 2003 Biological Psychology, Brain and Cognition (2), Cognitive Brain Research, Cognition and Emotion, Emotion, Journal of Psychophysiology, Psychological Bulletin, Psychoneuroendocrinology  
 2002 Emotion, Journal of Abnormal Psychology (2), Journal of Personality and Social Psychology, Journal of Sport & Exercise Psychology, Psychophysiology

- 2001 Biological Psychology, Cognition and Emotion, Emotion (3), Journal of Abnormal Psychology (2), Journal of Personality and Social Psychology (2), Psychophysiology (2)
- 2000 Emotion (3), Psychological Science, Psychophysiology
- 1999 Journal of Abnormal Psychology, Psychophysiology
- 1998 Psychophysiology
- 1997 Psychophysiology

## GRANT APPLICATION CONSULTING

- 2009 Ad Hoc Member of Study Section (ZMH1 ERB-N 05) for NIH R34 PA
- 2008 Ad Hoc Member of Study Section (ZRG1 BBBP-J 50) for NIH R21 PA
- 2007 Ad Hoc Member of Study Section (ZDA1) for NIH R21 Roadmap
- 2005-06 Member of NIMH Study Section (F02A) for Neurosciences Fellowships
- 2004 Ad Hoc Member of NIMH Study Section (F02A) for Neurosciences Fellowships
- 2003 External Scientific Review for NIMH R01 Application
- 2003 External Scientific Review for NIA-sponsored Alzheimer's Disease Core Center

## OTHER CONSULTING EXPERIENCE

- 2005-07 Member of Scientific Advisory Board, Organization for Human Brain Mapping
- 2005 Reviewer for Wiley
- 2004 Reviewer for MIT Press
- 2003 Scientist for Mind Brain Body and Health Initiative (MacArthur Foundation)
- 2002 Scientist for Mind Brain Body and Health Initiative (MacArthur Foundation)
- 2002 Grant reviewer for Wellcome Trust
- 1999 Reviewer for Oxford University Press

## PROFESSIONAL ORGANIZATIONS

Association for Behavior and Cognitive Therapies  
 American Psychological Association  
 Association for Psychological Science  
 Cognitive Neuroscience Society  
 Organization for Human Brain Mapping  
 Society for Neuroscience  
 Society for Psychophysiological Research  
 Society for Research in Psychopathology  
 Society for a Science of Clinical Psychology

## PUBLICATIONS

\* indicates undergraduate, graduate, or post-doctoral trainee or scientist working under my full or partial supervision.

### Papers in Refereed Journals

1. Heller, W., & Nitschke, J.B. (1997). Regional brain activity in emotion: A framework for

- understanding cognition in depression. Cognition and Emotion, *11*, 637-661. [40% conceptualization; 50% writing]
2. Heller, W., Nitschke, J.B., Etienne, M.A., & Miller, G.A. (1997). Patterns of regional brain activity differentiate types of anxiety. Journal of Abnormal Psychology, *106*, 376-385. [50% conceptualization; 50% writing; 95% data analysis]
  3. Heller, W., Nitschke, J.B., & Lindsay, D.L. (1997). Neuropsychological correlates of arousal in self-reported emotion. Cognition and Emotion, *11*, 383-402. [40% conceptualization; 50% writing; 85% data analysis]
  4. Heller, W., & Nitschke, J.B. (1998). The puzzle of regional brain activity in depression and anxiety: The importance of subtypes and comorbidity. Cognition and Emotion, *12*, 421-447. [50% conceptualization; 50% writing]
  5. Nitschke, J.B., Miller, G.A., & Cook, E.W. III (1998). Digital filtering in EEG/ERP analysis: Some technical and empirical comparisons. Behavior Research Methods, Instruments, and Computers, *30*, 54-67. [30% conceptualization; 40% writing; 85% data analysis]
  6. Heller, W., Nitschke, J.B., & Miller, G.A. (1998). Lateralization in emotion and emotional disorders. Current Directions in Psychological Science, *7*, 26-32. [50% conceptualization; 40% writing]
  7. Davidson, R.J., Abercrombie, H., Nitschke, J.B., & Putnam, K. (1999). Regional brain function, emotion and disorders of emotion. Current Opinion in Neurobiology, *9*, 228-234. [30% conceptualization; 20% writing]
  8. Nitschke, J.B., Heller, W., Palmieri, P.A., & Miller, G.A. (1999). Contrasting patterns of brain activity in anxious apprehension and anxious arousal. Psychophysiology, *36*, 628-637. [70% conceptualization; 80% writing; 95% data analysis]
  9. Keller, J., Nitschke, J.B., Bhargava, T., Deldin, P.J., Gergen, J.A., Miller, G.A., & Heller, W. (2000). Neuropsychological differentiation of depression and anxiety. Journal of Abnormal Psychology, *109*, 3-10. [50% conceptualization; 50% writing; 50% data analysis]
  10. Nitschke, J.B., Heller, W., \*Imig, J.C., McDonald, R.P., & Miller, G.A. (2001). Distinguishing dimensions of anxiety and depression. Cognitive Therapy and Research, *25*, 1-22. [60% conceptualization; 90% writing; 95% data analysis]
  11. Pizzagalli, D., Pascual-Marqui, R.D., Nitschke, J.B., Larson, C.L., Oakes, T.R., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., & Davidson, R.J. (2001). Anterior cingulate activity predicts degree of treatment response in major depression: Evidence from brain electrical tomography analysis. American Journal of Psychiatry, *158*, 405-415. [40% conceptualization; 30% writing; 20% data analysis]
  12. Davidson, R.J., Pizzagalli, D., Nitschke, J.B., & Putnam, K. (2002). Depression: Perspectives from affective neuroscience. Annual Review of Psychology, *53*, 545-574. [30% conceptualization; 20% writing]
  13. Nitschke, J.B., Larson, C.L., \*Smoller, J.J., \*Navin, S. D., Pederson, A.J.C., \*Ruffalo, D., \*Mackiewicz, K.L., \*Gray, S.M., \*Victor, E., & Davidson, R.J. (2002). Startle potentiation in aversive anticipation: Evidence for state but not trait effects. Psychophysiology, *39*, 254-258. [75% conceptualization; 70% writing; 60% data analysis]
  14. Pizzagalli, D.A., Nitschke, J.B., Oakes, T.R., Hendrick, A.M., Horras, K.A., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., Pascual-Marqui, R.D., & Davidson, R.J. (2002). Brain electrical tomography in depression: The importance of symptom severity, anxiety, and melancholic features. Biological

- Psychiatry, 52, 73-85. [50% conceptualization; 35% writing; 20% data analysis]
15. Jackson, D.J., Mueller, C.J., Dolski, I., Dalton, K.M., Nitschke, J.B., Urry, H.L., Rosenkranz, M.A., Ryff, C.D., Singer, B.D., & Davidson, R.J. (2003). Now you feel it, now you don't: Frontal EEG asymmetry and individual differences in emotion regulation. Psychological Science, 14, 612-617. [15% conceptualization]
  16. Nitschke, J.B., Nelson, E.E., \*Rusch, B.D., \*Fox, A.S., Oakes, T.R., & Davidson, R.J. (2004). Orbitofrontal cortex tracks positive mood in mothers viewing pictures of their infants. NeuroImage, 21, 583-592. [80% conceptualization; 95% writing; 60% data analysis]
  17. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (2004). Prefrontal cortex activation differentiates processes affecting memory in depression. Biological Psychology, 67, 125-143. [60% conceptualization; 90% writing; 95% data analysis]
  18. Urry, H.L., Nitschke, J.B., Dolski, I., Jackson, D.C., Dalton, K.M., Mueller, C.J., Rosenkranz, M.A., Ryff, C.D., Singer, B.H., & Davidson, R.J. (2004). Making a life worth living: Neural correlates of well-being. Psychological Science, 15, 367-372. [50% conceptualization; 40% writing; 30% data analysis]
  19. \*Mackiewicz, K.L., \*Sarinopoulos, I., \*Cleven, K.L., & Nitschke, J.B. (2006). The effect of anticipation and the specificity of sex differences for amygdala and hippocampus function in emotional memory. Proceedings of the National Academy of Sciences of the United States of America, 103, 14200-14205. [65% conceptualization; 80% writing; 15% data analysis]
  20. Nitschke, J.B., Dixon, G.E., \*Sarinopoulos, I., Short, S.J., Cohen, J.D., Smith, E.E., Kosslyn, S.M., Rose, R.M., & Davidson, R.J. (2006). Altering expectancy dampens neural response to aversive taste in primary taste cortex. Nature Neuroscience, 9, 435-442. [60% conceptualization; 85% writing; 20% data analysis]
  21. Nitschke, J.B., \*Sarinopoulos, I., \*Mackiewicz, K.L., Schaefer, H.S., & Davidson, R.J. (2006). Functional neuroanatomy of aversion and its anticipation. NeuroImage, 29, 106-116. [90% conceptualization; 95% writing; 50% data analysis]
  22. \*Sarinopoulos, I., Dixon, G.E., Short, S.J., Davidson, R.J., & Nitschke, J.B. (2006). Brain mechanisms of expectation associated with insula and amygdala response to aversive taste: Implications for placebo. Brain, Behavior, and Immunity, 20, 120-132. [95% conceptualization; 80% writing; 20% data analysis]
  23. Larson, C.L., Nitschke, J. B., & Davidson, R.J. (2007). Common and distinct patterns of affective response in dimensions of anxiety and depression. Emotion, 7, 182-191. [50% conceptualization; 20% writing; 20% data analysis]
  24. \*Oathes, D.J., Bruce, J.M., & Nitschke, J.B. (2008). Worry facilitates corticospinal motor response to transcranial magnetic stimulation. Depression and Anxiety, 25, 969-976. [45% conceptualization; 50% writing]
  25. \*Oathes, D.J., Ray, W.J., Yamasaki, A.S., Borkovec, T.D., Castonguay, L.G., Newman, M.G., & Nitschke, J.B. (2008). Worry, generalized anxiety disorder, and emotion: Evidence from the EEG gamma band. Biological Psychology, 79, 165-170. [40% conceptualization; 40% writing]
  26. Whalen, P.J., Johnstone, T., Somerville, L.H., Nitschke, J.B., Polis, S., Ihde-Scholl, T., Tarleton, L., Alexander, A.L., Davidson, R.J., & Kalin, N.H. (2008). A functional MRI predictor of treatment response to venlafaxine in generalized anxiety disorder. Biological Psychiatry, 63, 858-863. [20% conceptualization; 10% writing]
  27. Nitschke, J.B., \*Sarinopoulos, I., \*Oathes, D.J., Johnstone, T., Whalen, P.J., Davidson, R.J., & Kalin, N.H. (2009). Anticipatory activation in the amygdala and anterior

- cingulate in generalized anxiety disorder and prediction of treatment response. American Journal of Psychiatry, 166, 302-310. [90% conceptualization; 95% writing; 20% data analysis]
28. \*Sarinopoulos, I., \*Grupe, D.W., \*Mackiewicz, K.L., \*Herrington, J.D., \*Lor, M., \*Steege, E.E., & Nitschke, J.B. (2009). Uncertainty during anticipation modulates neural responses to aversion in human insula and amygdala. Cerebral Cortex, doi:10.1093/cercor/bhp155. [85% conceptualization; 85% writing; 20% data analysis]
29. \*Grupe, D.W., & Nitschke, J.B. (2010). Uncertainty biases expectancies and enhances responses to aversion. Manuscript submitted for publication. [50% concept development and design; 20% analysis; 40% writing]

### **Book Chapters**

30. Nitschke, J.B., Heller, W., & Miller, G.A. (2000). Anxiety, stress, and cortical brain function. In J.C. Borod (Ed.), The Neuropsychology of Emotion (pp. 298-319). New York: Oxford University Press. [50% conceptualization; 70% writing]
31. Davidson, R.J., Pizzagalli, D., & Nitschke, J.B. (2002). The representation and regulation of emotion in depression: Perspectives from affective neuroscience. In I.H. Gotlib & C.L. Hammen (Eds.), Handbook of Depression (pp. 219-244). New York: Guilford Press. [30% conceptualization; 20% writing]
32. Heller, W., Isom, J., Nitschke, J.B., Koven, N.S., & Miller, G.A. (2002). States, traits, and symptoms: Investigating the neural correlates of emotion, personality, and psychopathology. In D. Cervone & W. Mischel (Eds.), Advances in Personality Science (pp. 106-126). New York: Guilford Press. [20% conceptualization]
33. Nitschke, J.B., & Heller, W. (2002). The neuropsychology of anxiety disorders: Affect, cognition, and neural circuitry. In H. D'Haenen, J.A. den Boer, & P. Willner (Eds.), Biological Psychiatry (pp. 975-988). Chichester, UK: John Wiley & Sons, Ltd. [65% conceptualization; 90% writing]
34. Davidson, R.J., Pizzagalli, D., Nitschke, J.B., & Kalin, N.H. (2003). Parsing the subcomponents of emotion and disorders of emotion: Perspectives from affective neuroscience. In R.J. Davidson, K.R. Scherer, & H.H. Goldsmith (Eds.), Handbook of Affective Sciences (pp. 8-24). New York: Oxford University Press. [30% conceptualization; 20% writing]
35. Nitschke, J.B., & Heller, W. (2005). Distinguishing neural substrates of heterogeneity among anxiety disorders. International Review of Neurobiology, 67, 1-42. [65% conceptualization; 90% writing]
36. Nitschke, J.B., & \*Mackiewicz, K.L. (2005). Prefrontal and anterior cingulate contributions to volition in depression. International Review of Neurobiology, 67, 73-94. [95% conceptualization; 75% writing]
37. Nitschke, J.B., & \*Mackiewicz, K.L. (2006). Prefrontal and anterior cingulate contributions to volition in depression. In N. Sebanz, & W. Prinz (Eds.), Disorders of Volition (pp. 251-274). Cambridge, MA: MIT Press. [95% conceptualization; 75% writing]
38. Davidson, R.J., Pizzagalli, D.A., & Nitschke, J.B. (2008). The representation and regulation of emotion in depression: Perspectives from affective neuroscience. In I.H. Gotlib & C.L. Hammen (Eds.), Handbook of Depression, 2<sup>nd</sup> ed. (pp. 218-248). New York: Guilford Press. [30% conceptualization; 20% writing]
39. \*Herrington, J.D., Koven, N.S., Miller, G.A., Heller, W., & Nitschke, J.B. (2009).

Frontal asymmetry in emotion, personality and psychopathology: Methodological issues in electrocortical and hemodynamic neuroimaging. In S.J. Wood, N. Allen, & C. Pantelis (Eds.), The Neuropsychology of Mental Illness (pp. 29-46). Cambridge, UK: Cambridge University Press. [75% concept development and design; 20% writing]

40. Davidson, R.J., Pizzagalli, D., & Nitschke, J.B. (in press). Affect and depression: Perspectives from affective neuroscience. In D.M. Barch (Ed.), Cognitive and Affective Neuroscience of Psychopathology. New York: Oxford University Press. [30% conceptualization; 20% writing]
41. Nitschke, J.B., & Heller, W. (in press). Distinguishing neural substrates of heterogeneity among anxiety disorders. In D.M. Barch (Ed.), Cognitive and Affective Neuroscience of Psychopathology. New York: Oxford University Press. [65% conceptualization; 90% writing]

### **Commentaries in Refereed Journals**

42. Wager, T.D., & Nitschke, J.B. (2005). Placebo effects in the brain: Linking mental and physiological processes. Brain, Behavior, and Immunity, 19, 281-282. [50% conceptualization; 40% writing]
43. \*Oathes, D.J., & Nitschke, J.B. (2008). State of the Union between Cognitive Neuroscience and Emotion. Expert Review in Neurotherapeutics, 8, 1025-1027. [75% conceptualization; 30% writing]

## **INVITED TALKS**

### **Local**

1. Nitschke, J.B. (1999, August). Affective and physiological indicators of anxiety and depression: From startle reflex to fMRI. Invited talk presented at the annual Emotion Training Program Workshop, University of Wisconsin, Madison, WI.
2. Nitschke, J.B. (2002, October). Forays into the brain circuitry of positive emotion. Invited talk presented for the Tri-Beta Honor Society, University of Wisconsin, Madison, WI.
3. Nitschke, J.B. (2006, February). Anticipation of aversive events in the human brain: a model for anxiety and its disorders. Invited talk presented at Grand Rounds in the Department of Psychiatry, University of Wisconsin, Madison, WI.
4. Nitschke, J.B. (2006, September). The power of expectancy, anxiety, and the brain. Invited talk presented at Chaos Theory and Complex Systems seminar series, University of Wisconsin, Madison, WI.
5. Nitschke, J.B. (2006, November). The power of expectancy, anxiety, and the brain. Invited talk presented at Keck Biological Imaging seminar series, University of Wisconsin, Madison, WI.
6. Nitschke, J.B. (2007, March). The power of expectancy, anxiety, and the brain. Invited talk presented at Biology of Brain and Behavior seminar series in Department of Psychology, University of Wisconsin, Madison, WI.
7. Nitschke, J.B. (2009, April). The expectant brain and anxiety disorders. Invited talk presented for the Participatory Learning and Teaching Organization (PLATO) program of the Osher Lifelong Learning Institute, University of Wisconsin Continuing Studies, Madison, WI.

### **Regional**

8. Nitschke, J.B. (1997, November). Understanding cortical brain activity in depression and anxiety. Invited talk presented at Northwestern University, Evanston, IL.
9. Nitschke, J.B., Heller, W., & Miller, G.A. (1998, May). Psychometric differentiation of affective dimensions: Implications for the tripartite model. In S.J. Catanzaro (Chair), The tripartite model of anxiety and depression: Current research and future prospects. Invited symposium talk presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
10. Nitschke, J.B. (2005, May). Neuropsychology and neuroimaging of anxiety and depression. Invited talk presented at the annual meeting of the Midwest Neuropsychology Group, Madison, WI.

### **National**

11. Nitschke, J.B. (2001, June). Brain electrophysiology in anxiety: Challenging the assumption of homogeneity. In S.K. Sutton (Chair), Affective states, traits, and symptoms: EEG explorations. Invited symposium talk presented at the annual meeting of the American Psychological Society, Toronto, Ontario, Canada.
12. Nitschke, J.B. (2001, August). Neural circuitry of positive emotion: An fMRI study of mothers viewing pictures of their infants. Invited talk presented at the 2001 Positive Psychology Summer Institute, Sea Ranch, CA.
13. Nitschke, J.B., Nelson, E.E., & Davidson, R.J. (2002, February). Brain circuits in positive and negative emotion: Contributions of widely distributed structures serving specific functions. In E. Harmon-Jones (Chair), Brain mechanisms involved in emotion and personality. Invited symposium talk presented at the annual meeting of the Society for Personality and Social Psychology, Savannah, GA.
14. Nitschke, J.B. (2008, March). Anxiety and the power of expectancy in the human brain. Invited colloquium presented at Department of Psychology, North Dakota State University, Fargo, ND.
15. Nitschke, J.B. (2009, March). The expectant brain and anxiety disorders. Invited colloquium presented at Department of Psychology, University of California, Berkeley, CA.
16. Nitschke, J.B., Oathes, D.J., Hilt, L.M., Tromp, D.P.M., McFarlin, D.R., & Sarinopoulos, I. (2009, November). Neural mechanisms of anticipatory processing in generalized anxiety disorder. In J. Mohlman (Chair), Universal processes in generalized anxiety disorder – A lifespan neurobiological perspective. Invited symposium talk presented at the annual meeting of the Association for Behavior and Cognitive Therapies, New York City, NY.
17. Nitschke, J.B., Tromp, D.P.M., Oathes, D.J., McFarlin, D.R., & Sarinopoulos, I. (2010, March). The neuroanatomy of anticipatory and regulatory dysfunction in GAD. In K. Beesdo-Baum & S. Schoenfeld (Chairs), Improving understanding of Generalized Anxiety Disorder: What can we learn from epidemiological, experimental and clinical studies? Invited symposium talk presented at the annual meeting of the Anxiety Disorders Association of America, Baltimore, MD.
18. Nitschke, J.B. (2010, May). White matter and genetic contributions to regulation deficits affecting anticipatory brain function in generalized anxiety disorder. In A. Etkin (Chair),

Implicit emotion regulation: Basic mechanisms and clinical relevance. Invited symposium talk to be presented at the annual meeting of the Society of Biological Psychiatry, New Orleans, LA.

### **International**

19. Nitschke, J.B., Larson, C.L., & Davidson, R.J. (2001, October). Distinguishing affective dimensions contributing to emotion-modulated startle in depression. In N.B. Allen (Chair), Affective and attentional startle modulation in depression. Invited symposium talk presented at the annual meeting of the Society for Psychophysiological Research, Montreal, Quebec, Canada.
20. Nitschke, J.B., Heller, W., Pizzagalli, D., & Davidson, R.J. (2003, December). Prefrontal and anterior cingulate contributions to avolition in depression. Invited talk presented at conference on Disorders of Volition, Irsee, Germany.
21. Nitschke, J.B. (2004, June). Functional imaging of mood and depression. In T. Paus (Chair), Depression. Invited symposium talk presented at the annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary.
22. Nitschke, J.B. (2009, July). Anxiety and emotion in the human brain. Invited colloquium presented at Department of Psychology, Universitat Jaume I, Castellon, Spain.

### **CONFERENCE PROCEEDINGS**

1. Braggio, J.T., Pishkin, V., & Nitschke, J.B. (1991, October). Cognitive performance and psychophysiological activity in alcohol abusing adolescents. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Chicago, IL.
2. Braggio, J.T., Pishkin, V., & Nitschke, J.B. (1991, November). Effects of failure on Concept Identification (CI) performance and psychophysiological activity of substance abusing, conduct disordered, and normal student control adolescents. Poster session presented at the annual meeting of the Oklahoma Psychological Association, Oklahoma City, OK.
3. Nitschke, J.B., Braggio, J.T., Pishkin, V., & Brooks, D.L. (1991, November). Influence of criminal behaviors in alcohol-abusing and conduct-disordered adolescents on cognitive performance and psychophysiological activity. Paper presented at the annual meeting of the Oklahoma Psychological Association, Oklahoma City, OK.
4. Nitschke, J.B., Braggio, J.T., Pishkin, V., & Brooks, D.L. (1991, November). Effects of failure on cognitive performance and psychophysiological activity in alcohol-abusing and conduct-disordered adolescents, with or without criminal behaviors, and student controls. Poster session presented at the annual meeting of the Oklahoma Psychological Association, Oklahoma City, OK.
5. Nitschke, J.B., Heller, W., & Lindsay, D. (1994, May). Posterior right hemisphere activity, emotion, and self-reported arousal. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
6. Nitschke, J.B., Heller, W., Etienne, M.A., Taitano, E.K., Cecola, T.A., & Miller, G.A. (1994, October). Moderating effects of extraversion on regional brain activity in anxiety. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Atlanta, GA.
7. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (1995, October). Specificity of frontal EEG asymmetry in anxiety and depression during emotion processing. Poster

- session presented at the annual meeting of the Society for Psychophysiological Research, Toronto, Ontario, Canada.
8. Etienne, M.A., Heller, W., Nitschke, J.B., & Miller, G.A. (1995, October). Gender affects regional brain activity in anxiety and depression. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IO.
  9. Heller, W., Nitschke, J.B., Etienne, M.A., & Miller, G.A. (1995, October). Regional brain activity differentiates anxiety subtypes. Paper presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IO.
  10. Nitschke, J.B., Heller, W., Imig, J., Chiang, J., Von Behren, J., & Miller, G.A. (1996, September). Distinguishing subtypes of anxiety and depression: Further construct development, comorbidity, and neuropsychological implications. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Atlanta, GA.
  11. Nitschke, J.B., Palmieri, P.A., Miller, G.A., & Heller, W. (1997, June). Opposing patterns of brain activity in different types of anxiety. Paper presented at the 4<sup>th</sup> Laterality and Psychopathology Conference, London, England.
  12. Heller, W., Nitschke, J.B., Palmieri, P.A., & Miller, G.A. (1997, June). To divide is not to take away: New integrations of regional brain physiology and cognition in depression and anxiety. Paper presented at the 4<sup>th</sup> Laterality and Psychopathology Conference, London, England.
  13. Nitschke, J.B., Heller, W., Palmieri, P.A., & Miller, G.A. (1997, October). Cerebral asymmetry, life stress, and depression: Testing a diathesis/stress model. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Cape Cod, MA.
  14. Heller, W., Nitschke, J.B., Keller, J., & Miller, G.A. (1998, May). Neuropsychological differentiation of affective dimensions: Implications for the tripartite model. In S.J. Catanzaro (Chair), The tripartite model of anxiety and depression: Current research and future prospects. Symposium conducted at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
  15. Nitschke, J.B., Heller, W., & Miller, G.A. (1998, May). Psychometric differentiation of affective dimensions: Implications for the tripartite model. In S.J. Catanzaro (Chair), The tripartite model of anxiety and depression: Current research and future prospects. Symposium conducted at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
  16. Etienne, M.A., Heller, W., Nitschke, J.B., & Miller, G.A. (1999, November). Frontal brain activity is related to memory performance in depression. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Montreal, Quebec, Canada.
  17. Heller, W., Nitschke, J.B., Etienne, M.A., Compton, R.J., & Miller, G.A. (1999, November). Cognition/emotion relationships in depression and anxiety. In D.M. Barch & W. Heller (Chairs), Substrates of cognitive and emotional processing: Common or separate mechanisms? Symposium conducted at the annual meeting of the Society for Research in Psychopathology, Montreal, Quebec, Canada.
  18. Jackson, D.C., Nitschke, J.B., Seidenberg, M., Hermann, B., Bell, B., Dow, C., Burghy, C.A., & Davidson, R.J. (1999, November). Duration of active temporal lobe epilepsy is associated with increased negative and decreased positive affect. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Montreal, Quebec, Canada.

19. Nitschke, J.B., Larson, C.L., Navin, S.D., Nietert, J.Y., Jackson, D.C., & Davidson, R.J. (1999, November). Emotion-modulated startle in anxiety and depression. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Montreal, Quebec, Canada.
20. Jackson, D.C., Nitschke, J.B., Seidenberg, M., Hermann, B., Bell, B., Dow, C., Burghy, C.A., & Davidson, R.J. (2000, February). Duration of active temporal lobe epilepsy is associated with increased negative and decreased positive affect. Poster session presented at the annual meeting of the International Neuropsychological Society, Denver, CO.
21. Larson, C.L., Irwin, W., Nitschke, J.B., Navin, S.D., Ruffalo, D., Shackman, A.J., & Davidson, R.J. (2000, October). Self-report correlates of reactivity to visual affective stimuli indexed with emotion modulated startle: Specificity of a new measure. Poster session presented at the annual meeting of the Society for Psychophysiological Research, San Diego, CA.
22. Nitschke, J.B., Larson, C.L., Navin, S.D., Gray, S., Ruffalo, D., Smoller, M., Victor, E., Mackiewicz, K., & Davidson, R.J. (2000, October). Emotion-modulated startle in anticipation of and response to affective stimuli in anxiety and depression. Poster session presented at the annual meeting of the Society for Psychophysiological Research, San Diego, CA.
23. Pizzagalli, D., Nitschke, J.B., Pascual-Marqui, R.D., Larson, C.L., Oakes, T.R., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., & Davidson, R.J. (2000, October). Degree of treatment response in major depression is predicted by anterior cingulate activity: A Low Resolution Electromagnetic Tomography (LORETA) analysis. Poster session presented at the annual meeting of the Society for Psychophysiological Research, San Diego, CA.
24. Pizzagalli, D., Nitschke, J.B., Pascual-Marqui, R.D., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Oakes, T.R., Koger, J.V., Benca, R.M., & Davidson, R.J. (2000, December). Brain electrical correlates of depression derived from a new source localization method. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Boulder, CO.
25. Putnam, K.M., Rosenkranz, M.A., Mueller, C.J., Zhang, R., Slagter, H.A., Anderle, M.J., Schaefer, H., Ng, E.B., Nitschke, J.B., Benca, R.M., Jahn, A.L., & Davidson, R.J. (2000, December). Event-related functional magnetic resonance imaging during the presentation of affective images in depressed versus nondepressed participants. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Boulder, CO.
26. Putnam, K.M., Mueller, C.J., Skolnick, A.J., Zhang, R., Slagter, H.A., Benca, R.M., Ng, E.B., Kinsella, E.C., Jahn, A.L., Nitschke, J.B., Pizzagalli, D., Greischar, L., Pederson, A., & Davidson, R.J. (2000, December). Dense array EEG activity during conditions of reward and threat in depressed versus nondepressed participants. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Boulder, CO.
27. Pizzagalli, D., Nitschke, J.B., Pascual-Marqui, R.D., Larson, C.L., Oakes, T.R., Benca, R.M., & Davidson, R.J. (2001, January). Degree of treatment response in major depression is predicted by anterior cingulate activity: A Low Resolution Electromagnetic Tomography (LORETA) analysis. Poster session presented at the joint meeting of the Swiss Society for Neuroscience and the Swiss Society for Clinical Neurophysiology, Bern, Switzerland.
28. Nelson, E.E., Nitschke, J.B., Rusch, B.D., Oakes, T.R., Anderle, M.J., Ferber, K.L., Pederson, A.J.C., & Davidson, R.J. (2001, June). Motherly love: An fMRI study of

- mothers viewing pictures of their infants. Poster session presented at the annual meeting of Human Brain Mapping, Cambridge, England.
29. Nitschke, J.B. (2001, June). Brain electrophysiology in anxiety: Challenging the assumption of homogeneity. In S.K. Sutton (Chair), Affective states, traits, and symptoms: EEG explorations. Symposium conducted at the annual meeting of the American Psychological Society, Toronto, Ontario, Canada.
  30. Nitschke, J.B., Larson, C.L., & Davidson, R.J. (2001, October). Distinguishing Affective Dimensions Contributing to Emotion-modulated Startle in Depression. In N.B. Allen (Chair), Affective and attentional startle modulation in depression. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Montreal, Quebec, Canada.
  31. Nitschke, J.B., Schaefer, H.S., Mackiewicz, K., Skinner, B.T., Possin, A.A., Lee, H., Oakes, T.R., Anderle, M.J., Ihde-Scholl, T., Tarleton, L.C., Marler, C., Pederson, A.J.C., Ferber, K.L., & Davidson, R.J. (2001, November). Disentangling the anticipation of and response to aversive pictures: An event-related fMRI study. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  32. Putnam, K.M., Mueller, C.J., Schaefer, H., Jahn, A.L., Ng, E.B., Nitschke, J.B., Benca, R.M., Anderle, M.J., Zhang, R., Postle, B., & Davidson, R.J. (2001, November). Event-related functional magnetic resonance imaging during the presentation of affective images in depressed versus nondepressed participants. Paper session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  33. Nitschke, J.B., Nelson, E.E., & Davidson, R.J. (2002, February). Brain circuits in positive and negative emotion: Contributions of widely distributed structures serving specific functions. In E. Harmon-Jones (Chair), Brain mechanisms involved in emotion and personality. Symposium conducted at the annual meeting of the Society for Personality and Social Psychology, Savannah, GA.
  34. Davidson, R.J., Putnam, K.P., Nitschke, J.B., Larson, C.L., Schaefer, H.S., & Dalton, K. (2002, October). Probing the circuitry of emotion, emotion regulation and affective style. In A. Schienle (Chair), Emotion and fMRI. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Washington, DC.
  35. Nitschke, J.B. (2002, October). Probing the psychophysiology of positive emotion. Symposium chaired at the annual meeting of the Society for Psychophysiological Research, Washington, DC.
  36. Nitschke, J.B., Urry, H.L., Nelson, E.E., & Davidson, R.J. (2002, October). Neural circuitry in positive emotion: Maternal love and well-being. In J.B. Nitschke (Chair), Probing the psychophysiology of positive emotion. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Washington, DC.
  37. Johnstone, T., Whalen, P.J., Nitschke, J.B., Somerville, L.H., Ihde-Scholl, T., Tarleton, L., Seman, L., Davidson, R.J., & Kalin, N.H. (2002, November). Amygdala activation to fearful facial expressions in generalized anxiety disorder (GAD). Poster session presented at the annual meeting of the Society for Neuroscience, Orlando, FL.
  38. Nitschke, J.B., Johnstone, T., Possin, A.A., Mackiewicz, K.L., Somerville, L.H., Schaefer, H.S., Whalen, P.J., Seman, L., Kalin, N.H., & Davidson, R.J. (2002, November). Altered fMRI responses to the anticipation of and exposure to aversion in generalized anxiety disorder. Paper session presented at the annual meeting of the Society for Neuroscience, Orlando, FL.
  39. Johnstone, T., Somerville, L.H., Nitschke, J.B., Alexander, A.L., Davidson, R.J., Kalin, N.H., & Whalen, P.J. (2003, June). Stability of amygdala BOLD response to fearful faces

- over multiple scan sessions. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, New York City, NY.
40. Atchley, R.A., & Nitschke, J.B. (2003, November). Neurophysiology of cognitive abnormalities in depression. Symposium chaired at the annual meeting of the Society for Psychophysiological Research, Chicago, IL.
  41. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (2003, November). Prefrontal cortex activation differentiates strategy initiation and cognitive bias processes affecting memory in depression. In R.A. Atchley & J.B. Nitschke (Chairs), Neurophysiology of cognitive abnormalities in depression. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Chicago, IL.
  42. Nitschke, J.B., Heller, W., Pizzagalli, D., & Davidson, R.J. (2003, December). Prefrontal and anterior cingulate contributions to avolition in depression. Invited talk presented at conference on Disorders of Volition, Irsee, Germany.
  43. Mackiewicz, K.L., Schaefer, H.S., Cleven, K.L., Bluske, K.K., & Nitschke, J.B. (2004, June). Neural circuitry of the anticipation of and reactivity to aversive and ambiguous stimuli. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary.
  44. Nitschke, J.B. (2004, June). Functional imaging of mood and depression. In T. Paus (Chair), Depression. Symposium presented at the annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary.
  45. Sarinopoulos, I., Mackiewicz, K.L., Schaefer, H.S., Davidson, R.J., & Nitschke, J.B. (2004, June). Neural correlates of anticipating and reacting to aversive pictures: An event-related fMRI study. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary.
  46. Mackiewicz, K.L., Bluske, K.K., Kubota, J.T., Schaefer, H.S., & Nitschke, J.B. (2004, November). Neural correlates of aversive anticipation predict subsequent episodic memory. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  47. Dixon, G.E., Nitschke, J.B., Short, S.J., Lakshmanan, A., Carew, M.E., Anderle, M.J., Schaefer, H.S., Johnstone, T., Cohen, J.D., Kosslyn, S.M., Smith, E.E., & Davidson, R.J. (2004, October). The neural correlates of anticipation: The functional neurobiology of gustatory expectancy in the human brain. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  48. Mackiewicz, K.L., Cleven, K.L., Bluske, K.K., Sarinopoulos, I., & Nitschke, J.B. (2005, June). Amygdala and hippocampus contributions to emotional memory during the anticipation of and response to aversion. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Toronto, Canada.
  49. Cleven, K.L., Mackenrodt, D.B., Sarinopoulos, I., Possin, A.A., & Nitschke, J.B. (2005, June). Neural correlates of a mother's bond to her newborn infant. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Toronto, Canada.
  50. Sarinopoulos, I., Johnstone, T., Somerville, L.H., Seman, L., Whalen, P.J., Davidson, R.J., Kalin, N.H., & Nitschke, J.B. (2005, November). Neural abnormalities during the anticipation of aversion in generalized anxiety disorder. Poster session presented at the annual meeting of the Society for Neuroscience, Washington, DC.
  51. Kerr, D.L., Schaefer, H.S., Bluske, K.K., Sarinopoulos, I., Steege, E.E., Herrington, J.D., Curtin, J.J., & Nitschke, J.B. (2006, April). Impact of uncontrollability on brain areas activated by the anticipation of disgust and phobogenic snake videos. Poster session

- presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
52. Nitschke, J.B., & Wager, T.D. (2006, June). Imaging the placebo effect. Symposium chaired at the annual meeting of the Organization for Human Brain Mapping, Florence, Italy.
  53. Nitschke, J.B. (2006, June). Neural correlates of manipulating expectations of aversive taste: Implications for placebo. In J.B. Nitschke & T.D. Wager (Chairs), Imaging the placebo effect. Symposium presented at the annual meeting of the Organization for Human Brain Mapping, Florence, Italy.
  54. Sarinopoulos, I., Mackiewicz, K.L., Steege, E.E., & Nitschke, J.B. (2006, June). Uncertainty heightens amygdala and insula responses to aversive stimuli. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Florence, Italy.
  55. Kerr, D., Sarinopoulos, I., Schaus, A.J., Green, D.E., Curtin, J.J., & Nitschke, J. B. (2006, October). Neural correlates of anticipation and uncontrollability in snake phobia. Poster session presented at the annual meeting of the Society for Neuroscience, Atlanta, GA.
  56. Herrington, J.D., Sarinopoulos, I., Steege, E.E., Lor, M.Y., & Nitschke, J. B. (2006, October). The influence of uncertainty on functional connectivity during the perception of aversive pictures. Poster session presented at the annual meeting of the Society for Neuroscience, Atlanta, GA.
  57. Schaus, A.J., Kerr, D.L., Sarinopoulos, I., Lor, M.Y., Green, D.E., & Nitschke, J.B. (2007, May). Effect of anticipation on memory of emotionally salient stimuli in a clinical population of snake phobics. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, New York City, NY.
  58. Kerr, D.L., Sarinopoulos, I., Schaus, A.J., Green, D.E., & Nitschke, J.B. (2007, June). Impact of controllability on neural activity during anticipation of disgust videos. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL.
  59. Sarinopoulos, I., Lor, M.Y., Steege, E.E., Mackiewicz, K.L., & Nitschke, J.B. (2007, June). Distinguishing neural responses to aversion and uncertainty. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL.
  60. Oathes, D.J., Sarinopoulos, I., Lor, M.Y., Kalin, N.H., & Nitschke, J.B. (2007, October). Normalization of amygdala function in generalized anxiety disorder patients following treatment with venlafaxine. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IA.
  61. Oathes, D.J., Sarinopoulos, I., Kalin, N.H., & Nitschke, J.B. (2007, November). Neural activity in anticipation of and in response to both aversive and neutral pictures in generalized anxiety disorder. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  62. Green, D.E., Kerr, D.L., Flink, T.R., Sarinopoulos, I., & Nitschke, J.B. (2008, April). Snake phobics anticipating and responding to snakes: Skin conductance responses and fMRI. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
  63. Nitschke, J.B. (2008, April). The power of expectancy in the human brain. Symposium chaired at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
  64. Nitschke, J.B. (2008, April). Anticipating the worst: Investigating brain mechanisms of anxiety. In J.B. Nitschke (Chair), The power of expectancy in the human brain.

- Symposium presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
65. Staples, A., Oathes, D.J., Schmidt, M., Jenson, M., & Nitschke, J.B. (2008, April). Anticipatory anxiety predicts reduced gaze fixation on aversive stimuli in generalized anxiety disorder. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
  66. Miller, N.A., Oathes, D.J., Staples, A., Kral, T., & Nitschke, J.B. (2008, May). Individuals with social anxiety disorder report greater use of expressive suppression. Poster session presented at the annual meeting of the Association for Psychological Science, Chicago, IL.
  67. Oathes, D.J., Lee, J.E., Kral, T.R.A., Alexander, A.L., & Nitschke, J.B. (2008, September). Diffusion tensor imaging and chronic worry symptoms in generalized anxiety disorder. Poster session presented at the annual meeting of the Society for Research on Psychopathology, Pittsburgh, PA.
  68. Nitschke, J.B. (2008, September). Temporal dynamics of neural processes in anxiety and depression. Symposium chaired at the annual meeting of the Society for Research on Psychopathology, Pittsburgh, PA.
  69. Nitschke, J.B., Kerr, D.L., Oathes, D.J., & Sarinopoulos, I. (2008, September). Brain mechanisms of anticipating and responding to emotional stimuli in anxiety disorders. In J.B. Nitschke (Chair), Temporal dynamics of neural processes in anxiety and depression. Symposium presented at the annual meeting of the Society for Research on Psychopathology, Pittsburgh, PA.
  70. Oathes, D.J., McFarlin, D.R., Jenson, M.J., Kral, T.R.A., Staples, A.M., & Nitschke, J.B. (2008, November). Neural dynamics of anticipation and response to emotional pictures in generalized anxiety disorder. Paper session presented at the annual meeting of the Society for Neuroscience, Washington, DC.
  71. Kerr, D.L., Green, D.E., Oathes, D.J., Flink, T.R., McFarlin, D., & Nitschke, J.B. (2008, November). Neural correlates of anticipation in snake phobia. Paper session presented at the annual meeting of the Society for Neuroscience, Washington, DC.
  72. Staples, A., Oathes, D.J., Schmidt, M., Jenson, M., & Nitschke, J.B. (2008, November). Patterns of anticipatory anxiety and avoidance in generalized anxiety disorder. Poster session presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, Orlando, FL.
  73. Oathes, D.J., McFarland, D.M., Kral, T.R.A., Jenson, M.J., Sarinopoulos, I., & Nitschke, J.B. (2009, March). The aftermath of affective stimuli: Evidence from fMRI recorded insula and amygdala activity in generalized anxiety disorder. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
  74. Kerr, D.L., Green, D.E., & Nitschke, J.B. (2009, June). Relationship between neural activity and skin conductance response during anticipation and viewing of aversive videos in specific phobia. Poster presented at the annual meeting of the Organization for Human Brain Mapping, San Francisco, CA.
  75. Oathes, D.J., McFarlin, D.R., Jenson, M.J., Kral, T.R.A., & Nitschke, J.B. (2009, June). Correlations between amygdala activity during the anticipation of aversion and trait worry symptoms in generalized anxiety disorder. Poster presented at the annual meeting of the Organization for Human Brain Mapping, San Francisco, CA.
  76. McFarlin, D.R., Kerr, D.L., Green, D.E., Nitschke, J.B. (2009, October). The effect of controllability on context dependent granger causality of snake phobia fMRI data at 400

- ms resolution. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
77. Oathes, D.J., McFarlin, D.R., Kral, T.R.A., & Nitschke, J.B. (2009, October). Anxiety, anticipation, and conditions of uncertainty: Evidence from fMRI in generalized anxiety disorder. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
  78. Hilt, L.M., Oathes, D.J., Green, D.E., Kral, T.R.A., Ferrell, R.E., Hariri, A.R., & Nitschke, J.B. (2009, November). Short allele of the serotonin transporter gene associated with anticipatory activity in the amygdala. Poster session presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, New York City, NY.
  79. Nitschke, J.B., Oathes, D.J., Hilt, L.M., Tromp, D.P.M., McFarlin, D.R., & Sarinopoulos, I. (2009, November). Neural mechanisms of anticipatory processing in generalized anxiety disorder. In J. Mohlman (Chair), Universal processes in generalized anxiety disorder – A lifespan neurobiological perspective. Symposium presented at the annual meeting of the Association for Behavioral and Cognitive Therapies, New York City, NY.
  80. Nitschke, J.B., Tromp, D.P.M., Oathes, D.J., McFarlin, D.R., Kral, T.R.A., Lee J., & Alexander, A.L. (2009, December). Decreased structural connectivity between frontal and limbic areas in generalized anxiety disorder. Poster session presented at the annual meeting of the American College for Neuropsychopharmacology, Hollywood, FL.
  81. Nitschke, J.B., Tromp, D.P.M., Oathes, D.J., McFarlin, D.R., & Sarinopoulos, I. (2010, March). The neuroanatomy of anticipatory and regulatory dysfunction in GAD. In K. Beesdo-Baum & S. Schoenfeld (Chairs), Improving understanding of Generalized Anxiety Disorder: What can we learn from epidemiological, experimental and clinical studies? Symposium presented at the annual meeting of the Anxiety Disorders Association of America, Baltimore, MD.
  82. Nitschke, J.B. (2010, May). White matter and genetic contributions to regulation deficits affecting anticipatory brain function in generalized anxiety disorder. In A. Etkin (Chair), Implicit emotion regulation: Basic mechanisms and clinical relevance. Symposium to be presented at the annual meeting of the Society of Biological Psychiatry, New Orleans, LA.