

**CURRICULUM VITA**  
**University of Alabama at Birmingham**  
**School of Medicine Faculty**

Date: January 20, 2016

**PERSONAL INFORMATION:**

Name: **Deborah Lucille Kerr, Ph.D.**  
Citizenship: USA  
Foreign Language(s):  
Home Address: 3929 Forest Avenue  
Mountain Brook, Alabama 35213  
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**RANK/TITLE:**

Department: Assistant Professor  
Department of Psychiatry and Behavior Neurobiology (primary)  
Department of Neurology (secondary)  
University of Alabama at Birmingham  
Birmingham, AL, USA

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**HOSPITAL AND OTHER (NON ACADEMIC) APPOINTMENTS:**

2000-2004	Psychology Intern/Volunteer, Mental Health Association, United Way, St. Louis, MO, USA Applied Behavior Analysis Therapist/Therapist Trainer, Department of Elementary and Secondary Education, St. Louis, MO, USA
2005-2006	Diagnostic Interviewer, Waisman Laboratory for Brain Imaging, Madison, WI, USA
2006-2009	Student Therapist, Psychology Research and Training Clinic, Madison, WI, USA Psychology Extern in Adult Inpatient Group Therapy, University of Wisconsin Hospital Psychiatry, Madison, WI, USA Psychology Extern in Adult Therapy, University of Wisconsin Department of Psychiatry, Madison, WI, USA Psychology Extern in Adult Neuropsychology, Department of Neurology and Neuropsychology at the Medical College of Wisconsin, Milwaukee, WI, USA
2010-2011	Adult Neuropsychology Rotation, West Virginia School of Medicine, Morgantown, WV, USA Pediatric Neuropsychology Rotation, West Virginia School of Medicine, Morgantown, WV, USA Chronic Pain Assessment/Intervention Rotation, West Virginia School of Medicine, Morgantown, WV, USA

Louis A. Johnson VAMC Assessment/PTSD-Intervention Rotation, West Virginia School of Medicine, Morgantown, WV, USA  
Outpatient Anxiety Disorders Assessment/Intervention Rotation, West Virginia School of Medicine, Morgantown, WV, USA  
Stress Management Inpatient Intervention Rotation, West Virginia School of Medicine, Morgantown, WV, USA  
Psychiatric Intensive Care Unit Inpatient Intervention Rotation, West Virginia School of Medicine, Morgantown, WV, USA

**PROFESSIONAL CONSULTANTSHIPS:**

None

**EDUCATION:**

2001 A.B. in Psychology A.B. in Philosophy/Neuroscience	Washington University in St. Louis, St. Louis, MO Washington University in St. Louis, St. Louis, MO
2005 M.S. in Clinical Psychology	University of Wisconsin-Madison, Madison, WI
2011 Ph.D. in Clinical Psychology/Neuroscience	University of Wisconsin-Madison, Madison, WI

**MILITARY SERVICE:**

None

**LICENSURE:**

2013 Licensed Clinical Psychologist- Alabama, License #1800

**POSTDOCTORAL TRAINING:**

Sept 2012- Aug 2014	Ph.D.: Postdoctoral Fellow, Neuroimaging (COINS-2 Study), University of Alabama at Birmingham, Birmingham, AL, USA
Sept-Dec 2014	Ph.D.: Major Rotation in Department of Psychiatry and Behavioral Neurobiology, University of Alabama at Birmingham, Birmingham, AL, USA
Sept 2012- Aug 2014	Ph.D.: Major Rotation in Department of Neurology, University of Alabama at Birmingham, Birmingham, AL, USA
April-Aug 2014	Ph.D.: Minor Rotation in Department of Psychiatry, University of Alabama at Birmingham, Birmingham, AL, USA

**ACADEMIC APPOINTMENTS:**

2015-	Assistant Professor	University of Alabama at Birmingham, AL, USA
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**AWARDS/HONORS:**

1997-2001	Four-year Full Tuition Academic Scholarship to Washington University in St. Louis, St. Louis, WA, USA
1997-2001	Deans List, Washington University in St. Louis, St. Louis, WA, USA
2000	Volunteer Excellence within United Way, Mental Health Association (MHA)

2001 Summa Cum Laude, Washington University Psychology Department, Washington University, St. Louis, MO, USA  
2004 Emotion Travel Award, Wisconsin Symposium, Madison, WI, USA  
2004-2006 National Institute of Health Emotion Traineeship (\$19,000 / year stipend), University of Wisconsin at Madison, Madison, WI, USA  
2007-2008 Hertz Psychology Travel Award  
2008 Ramona O. Messerschmidt Research Award, University of Wisconsin at Madison, Madison, WI, USA  
2009 Vilas Travel Grant Recipient, University of Wisconsin at Madison, Madison, WI, USA  
2009 Ramona O. Messerschmidt Research Award, University of Wisconsin at Madison, Madison, WI, USA

#### **PROFESSIONAL SOCIETIES/MEMBERSHIPS:**

2001- Member, Society for Neuroscience  
2004- Member, Organization for Human Brain Mapping  
2004-2009 Member, Cognitive Neuroscience Society  
2008- Member, American Psychological Association  
2010- Member, International Neuropsychological Society  
2011- Member, American Psychological Society  
2013- Member, National Academy of Neuropsychology

#### **COUNCILS AND COMMITTEES:**

None

#### **UNIVERSITY ACTIVITIES:**

My current University activities highlight my role as an active scientist-practitioner. I am a licensed clinical psychologist and experienced neuroimaging researcher with demonstrated interests in providing clinical education and integrating clinical knowledge and neuroscience research to improve clinical practice. My clinical career has been guided by evidence-based practice and assessment, with emphasis on understanding psychological contributions to impaired cognition in disorders ranging from anxiety to dementia.

My current clinical role is centered on the provision of neuropsychological and psychological assessment services as well as psychological intervention. My provision of psychological intervention services are driven by a theoretically-driven integrative therapy approach, where I take an individualized case conceptualization approach to the treatment of clients, where actual integration is an empirical question and change is based on empirical support. This approach builds upon my diverse experience and proficiency in providing individual and group therapy to adults and children/adolescents via several therapeutic orientations, including (but not limited to): CBT, CPT, IPT, DBT, ACT, Mindfulness/MBSR, and Behavioral/Exposure. Additionally, I have specialty training in providing individual/group therapy to patients with chronic pain, cognitive impairment, post-traumatic stress disorder (event or complex type), personality disorders, and anxiety disorders.

An important part of my current University clinical duties involves providing medical and clinical psychology students with training in multiple forms of psychological intervention. For a full description of this activity please see the "teaching experience section".

As a complement to my clinical education, I have developed substantial expertise in cognitive and affective neuroscience over the past 15 years, including doctoral research on the neurobiological underpinnings of normative and pathological anxiety. My current University research position in the

Department of Neurology involves the study of the effects of Mild Cognitive Impairment and Alzheimer's disease on financial capacity. My efforts on this project have led to substantial methodological improvements, decreased patient attrition, and progress towards establishing useful neuroimaging biomarkers for the identification of pre-clinical AD and predicting the loss of financial capacity.

### **TEACHING EXPERIENCE:**

My teaching experience over the past year with respect to clinical practice has involved the instruction and supervision of graduate students in the UAB Medical-Clinical doctoral program and pre-doctoral clinical interns with a focus on service delivery utilizing an integrative approach. This approach to treatment has necessitated an introduction to many different third wave therapy programs (e.g. Mindfulness, ACT, IPT, DBT). The students have found these programs to substantially improve patient quality of care and have requested a formal seminar or course on these techniques.

My teaching experience over the past 15 years with respect to research has primarily involved the training and supervision of a number of faculty, undergraduate, and graduate students in neuroscience, neuroimaging research methods, study design, study implementation and data analysis over 4 different institutions. I teach via formal lectures and informally by mentoring students in neuroimaging techniques.

### **Invited Presentations:**

#### **Department Invitations:**

- 11/13/1012 Kerr, D. Prodromal behavioral variant frontotemporal dementia (FTD) conceptualization and diagnostic challenges. Talk presented at *UAB Division of Neuropsychology, Department of Neurology, Neuropsychology Case Conference, Birmingham, AL.*
- 02/26/2013 Kerr, D. Introduction to the Medicare Physician Quality Reporting System (PQRS) for neuropsychologists. Talk presented at *UAB Division of Neuropsychology, Department of Neurology, Neuropsychology Case Conference, Birmingham, AL.*
- 01/10/2014 Kerr, D. The effects of motion on brain imaging data acquisition and results and how to reduce it. Talk presented at *Civitan Functional Neuroimaging Laboratory (CFNL), Birmingham, AL.*
- 2014 Kerr, D. A neuroimaging model for loss of financial capacity in Alzheimer's disease. Talk presented at *UAB Neurology Grand Rounds, Birmingham, AL.*
- 05/13/2014 Kerr, D. Professional issues in neuropsychology and case presentation using fact-finding. Talk presented at *UAB Division of Neuropsychology, Department of Neurology, Neuropsychology Case Conference, Birmingham, AL.*
- 06/10/2014 Kerr, D. A neuroimaging model for loss of financial capacity in Alzheimer's disease. Talk presented at *UAB Neurology Grand Rounds, Birmingham, AL.*

#### **Seminar Invitations:**

- 2014 Kerr, D., Bartel, T., McLaren, D., Marson, D. A neuroimaging model for loss of financial capacity in Alzheimer's disease. Talk presented at *Society for Neuroscience Forty-Fourth Annual Meeting, Washington, D.C.*

2008 Kerr, D., Green, D., Oathes, D., Fink, T., McFarlin, D., & Nitschke, J. Neural correlates of anticipation in snake phobia. Talk presented at *Society for Neuroscience Thirty-Eighth Annual Meeting, Washington, D.C.*

### **POST-GRADUATE TEACHING EXPERIENCE**

2013 **Instructor , PY356 Introduction to Neuroscience II**  
Invited Lecture: Neuroanatomy I  
Course Directors: Anne Theibert, Ph.D. and Garrett Kaas, Ph.D., Dept. of Neurobiology

### **PRE-GRADUATE TEACHING EXPERIENCE**

2008-2009 **Graduate Teaching Assistant, Introduction to Psychology**  
Department of Psychology, University of Wisconsin-Madison  
Course Director: Benjamin Dykman, Ph.D.

2005-2009 **Graduate Student Instructor**  
**PEOPLE Program – Neuroscience Unit**  
**Neuroscience Training Program**  
Department of Neuroscience, University of Wisconsin-Madison  
PEOPLE Coordinators: Heather Belken, M.S. (2005-2007); Jenny Dahlberg, M.S. (2008-2009)

2005-2011 **Undergraduate Research Mentor/Supervisor**  
Department of Biology & Psychology, University of Wisconsin-Madison

2000-2001 **Undergraduate Teaching Assistant, Introduction to Psychology**  
Department of Psychology, Washington University in St. Louis  
Course Directors: Alan Lamberth, Ph.D., Mitch Sommers, Ph.D.

### **GRANT SUPPORT:**

2004-2006 Title: “Training Program in Emotion Research”  
NIH/NIHM T32MH018931  
PI: Richard Davidson, Ph.D.  
Role: Graduate Student Trainee in Emotion Research

2005-2010 Title: “Neuroanatomy of Anticipation in Anxiety Disorders”  
NIH/NIMH R01-MH74847  
PI: Jack Nitschke, Ph.D.  
Role: Graduate Research Assistant

2010-2015 Title: “Functional Change in Mild Cognitive Impairment (COINS-2 Study)”  
NIH 5R01 AG021927  
PI: Daniel Marson, J.D., Ph.D.  
Role: Postdoctoral Fellow

2013-2015 Title: "Identifying Early Financial Decline in Cognitively Normal Elderly"  
National Endowment for Financial Education (NEFE)  
PI: Daniel Marson, J.D., Ph.D.  
Role: Postdoctoral Fellow

## **BIBLIOGRAPHY:**

### **MANUSCRIPTS:**

Manuscripts already published

1. McFarlin, D. R., Kerr, D. L., & Nitschke J. B. (2012). Upsampling to 400-ms resolution for assessing effective connectivity in functional magnetic resonance imaging data with Granger causality. *Brain Connect*, 3(1), 61-71.
2. Kerr, D. L., McLaren, D.G., Mathy, R.M., & Nitschke, J.B. (2012). Controllability modulates the anticipatory response in the human ventromedial prefrontal cortex. *Front. Psychology*, 3:557. doi: 10.3389/fpsyg.2012.00557
3. Kerr, D. L., Gusnard, D. A., Snyder, A. Z., & Raichle, M. E. (2004). Effect of practice on reading performance and brain function. *NeuroReport*, 15(4), 607-10
4. Mathy, R. M., Kerr, D. L., & Haydin, B. M. (2003). Methodological rigor and ethical considerations in internet-mediated research. *Psychotherapy: Theory, Research, Practice, Training.*, 40( 1/2), 77–85.
5. Mathy, R. M., Lehmann, B. A., & Kerr, D. L. (2003). Bisexual and transgender identities in a nonclinical sample of North Americans: Suicidal intent, behavioral difficulties, and mental health treatment. *Journal of Bisexuality*, 3(3/4).

Manuscripts in preparation

1. Kerr, D.L., McLaren, D.G., Bartel, T.A., Marson, D.C. (2015) Alzheimer's related atrophy is associated with impairment of financial capacity: A cross-sectional study of prodromal and clinical AD. *NeuroImage Clinical*.
2. Kerr, D.L., Bartel, T.A., McLaren, D.G., Visscher, K.M., Marson, D.C. (2015) Financial skill decline and associated functional connectivity changes in MCI & AD. *NeuroImageClinical*.

## **BOOKS:**

Invited Book Chapters

1. Marson, D.C., Kerr, D.L. & McLaren, D.G. (in press). Financial Decision-Making and Capacity of Older Adults. In Schaie, K.W. & Willis, S.L. (Eds.), *Handbook of the Psychology of Aging, Eighth Edition*. London: Academic Press, pp. xxx-xxx

Invited Reviewer

1. NeuroImage

## 2. Public Health

### Published abstracts and poster exhibits:

1. (mentored student) Bartel, T.A., Kerr, D.L., McLaren, D.G., Marson, D.C. (2014) Functional connectivity changes associated with financial capacity impairment in prodromal and clinical Alzheimer's disease. *Society for Neuroscience Abstr.*
2. Kerr, D.L., Bartel, T.A., McLaren, D.G., Marson, D.C. (2014) Associations between brain atrophy and financial capacity in prodromal and clinical AD. *National Academy of Neuropsychology Abstr.*
3. Martin, R., Triebel K., Falola M., Cutter, G. R., Kerr, D. L., Gerstenecker, A., Marson, D. C. (2014) Financial decline in patients with mild cognitive impairment: A six year longitudinal study. *National Academy of Neuropsychology Abstr.*
4. Kerr, D. L., Bartel, T.A., McLaren, D.G., Marson, D.C. (2014) Relationships between brain atrophy and financial capacity in patients with aMCI and AD. *International Neuropsychological Society Abstr.*
5. Wiener, J. R., Chong, J., Smith, A., Brefczynski-Lewis, J., Hou, B.L., Kerr, D. L., McLaren, D.G., Haut, M.W. (2013) Grey matter changes following attention training. *International Neuropsychological Society Abstr.*
6. Hou, B.L., Smith, A., Brefczynski-Lewis, J., Chong, J., Kerr, D. L., Wiener, J. R., Haut, M.W. (2012) Attention network of healthy highly educated subjects in attention training: studied by rfMRI and DTI. *Organization for Human Brain Mapping Abstr.*
7. Haut, M.W., Kerr, D.L., Wiener, J.R., Chong, J., Hou, B., Brefczynski-Lewis, J. (2012) The effect of attention training of brain function and structure. *Annual Meeting of the American Academy of Clinical Neuropsychology Abstr.*
8. Haut, M.W., Kerr, D.L., Chong, J., Smith, A., Hou, B., Brefczynski-Lewis, J. (2011) The effect of attention training of brain function and structure. *Annual Meeting of the American Academy of Clinical Neuropsychology Abstr.*
9. (mentored student) Korhumel, R.A., Kerr, D.L., McLaren, D. G., Nitschke, J. B. (2011) Ventromedial prefrontal cortex activity during anticipation of controllable stimuli: a network for the attenuation of anxiety. *Society for Neuroscience Abstr.*
10. (mentored student) Duda, R. E., Kerr, D.L., McLaren, D. G., Nitschke, J. B. (2010) Context-dependent connectivity of the ventral medial prefrontal cortex for controllable aversive stimuli in snake phobia. *Society for Neuroscience Abstr.*
11. McFarlin, D., Kerr, D., Green, D., & Nitschke, J. (2009) The effect of controllability on context dependent granger causality in snake phobia fMRI data at 400-ms resolution. *Society for Neuroscience Abstract*
12. Kerr, D., Green, D., & Nitschke, J. (2009) Relationship between neural activity and skin conductance response during anticipation and viewing of aversive videos in specific phobia. *Organization for Human Brain Mapping Abstr.*
13. Kerr, D., Green, D., Oathes, D., Fink, T, McFarlin, D., & Nitschke, J. (2008) Neural correlates of anticipation in snake phobia. *Society for Neuroscience Abstr.*
14. (mentored student) Green, D., Kerr, D., Flink, T., Sarinopoulos, I., & Nitschke, J. (2008) Snake phobics anticipating and responding to snakes: Skin conductance responses and fMRI . *Cognitive Neuroscience Society Abstr.*

15. (mentored student) Schaus, A., Kerr, D., Sarinopoulos, I., Lor, M., Green, D., & Nitschke, J. (2007) Effect of anticipation on memory of emotionally salient stimuli in a clinical population of snake phobics. *Cognitive Neuroscience Society Abstr.*
16. Kerr, D., Sarinopoulos, I., Schaus, A., Green, D., & Nitschke, J. (2007) Impact of controllability on neural activity during anticipation of disgust videos. *Organization for Human Brain Mapping Abstr.*
17. Kerr, D., Sarinopoulos, I., Schaus, A., Green, D., Curtin, J., & Nitschke, J. (2006) Neural correlates of uncontrollability and anticipation in snake phobics. *Society of Neuroscience Abstr.*
18. Kerr, D., Schaefer, H., Herrington, J., Bluske, K., Sarinopoulos, I., Steege, E., Curtin, J., & Nitschke, J. (2006) Impact of uncontrollability on brain areas activated by the anticipation of disgust and phobogenic snake videos. *Cognitive Neuroscience Society Abstr.*
19. Kerr, D., Hornbeck, R., Gusnard, D., Buckner, R., & Raichle, M. (2004) Neural correlates of extended practice on the word-association task of verb generation. *Society of Neuroscience Abstr.*
20. Kerr, D., Hornbeck, R., Gusnard, D., Buckner, R., & Raichle, M. (2004) Neural correlates of extended practice on the word-association task of verb generation. *Organization for Human Brain Mapping Abstr.*
21. Kerr, D., Hornbeck, R., Raichle, M., & Gusnard, D. (2003) Effect of practice on reading performance and brain function: An fMRI and behavioral study in experienced readers. *Society of Neuroscience Abstr.*
22. Gusnard, D., Sirevaag, E., Rohrbaugh, J., Snyder, A., Kerr, D., Hornbeck, R., Ollinger, J., McAvoy, M., & Raichle, M. (2002) Cardiovascular and neural correlates of cognitive task performance. *Organization for Human Brain Mapping Abstr.*
23. Gusnard, D., Sirevaag, E., Rohrbaugh, J., Snyder, A., Kerr, D., Hornbeck, R., Ollinger, J., McAvoy, M., & Raichle, M. (2002) Neural and cardiovascular correlates of mental arithmetic. *Cognitive Neuroscience Abstr.*
24. Buckner, R. L., Wheeler, M. E., Maccotta, L., Kerr, D., & Cohen, N. J. (2001) Code-specific repetition priming of cortex and amygdala. *Society of Neuroscience Abstr.*
25. Buckner, R. L., Wheeler, M. E., Maccotta, L., Kerr, D., & Cohen, N. J. (2001) Code specific repetition priming in frontal and posterior cortex. *NeuroImage, 13(6): S642-S642 Part 2 Suppl.S JUN 2001.*

**SPECIAL TRAINING:**

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| 2000 | Institute for Research in Cognitive Science Undergraduate Fellowship, University of Pennsylvania, Philadelphia, PA, USA  |
| 2005 | Graduate Fellowship, Sackler Institute Neurobiology of Developmental Disorders, Princeton University, Princeton, NJ, USA |
| 2013 | Neuroanatomy for Neuropsychologists, UAB Graduate School   |
| 2013 | Certification in Lab Management, UAB Graduate School   |
| 2014 | Certification in Translation Science, UAB Graduate School  |