Jessica Ann Bernard

Curriculum Vitae

Texas A&M University
Department of Psychological and Brain Sciences
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College Station, Texas 77843
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ACADEMIC APPOINTMENTS

August 2015 **Assistant Professor** Texas A&M University
Department of Psychological and Brain Sciences

September 2013- July 2015 **Post-Doctoral Fellow** University of Colorado Boulder,
Department of Psychology and Neuroscience
ADAPT Program
Supervisor: Vijay Mittal, PhD

October 2012 - August 2013 **Post-Doctoral Fellow** University of Colorado Medical School
Neurology Department
Supervisor: Benzi Kluger, M.D.

EDUCATION

August 2012 **PhD.** Department of Psychology, University of Michigan**,** Ann Arbor, MI
Cognition & Cognitive Neuroscience Area.
Advisor: Rachael D. Seidler, PhD
Dissertation: The aging cerebellum: Cortico-cerebellar connectivity, volume, and the impact on behavior.

August 2009 **M.S.** Department of Psychology, University of Michigan**,** Ann Arbor, MI
Cognition & Cognitive Neuroscience Area.

May 2007 **B.S.** Biological Psychology *cum laude,* Tufts University**,** Medford, MA

RESEARCH TRAINING

2008-2012 LIFE – The Life Course: Evolutionary and Ontogenetic Dynamics,
A collaborative graduate program between Max Planck Institute for Human Development, Berlin; Humboldt University, Berlin; Free University of Berlin; University of Zurich; University of Virginia, and University of Michigan; twice yearly academic meetings

Fall 2007 Intensive Course in Transcranial Magnetic Stimulation.
Harvard Medical School Department of Continuing Education, Beth Israel Deaconess Medical Center. Directed by Alvaro Pascual-Leone, M.D., Ph.D.

GRANT FUNDING

Active

Brain & Behavior Research Foundation (NARSAD) Young Investigator Grant
Donald and Janet Boardman Family Investigator
Title: Cerebelllo-Prefrontal Involvement in Error Processing and Rule Learning in Youth at Ultra High-Risk for Psychosis
Role: PI
January 15, 2015 – January 15, 2017
Direct Costs: $65,000
Currently in No Cost Extension Through January 2018

Brain and Behavior Research Foundation NARSAD Independent Investigator Award
Title: Cerebellar Stimulation and Verbal Working Memory in Early Course Psychosis: Insights from Functional Neuroimaging
Role: Co-Investigator
Project Period: 9/2017-8/2019
Total Direct Costs: $99,000
TAMU Direct Costs: $13,060
Goal: Test the utility of cerebellar brain stimulation for improving working memory deficits in patients with early course psychosis.

Under Review

National Institute on Aging R01
Title: A longitudinal investigation of the cerebellum in adulthood: anatomical and network changes, motor function, and cognition
Role: PI
Proposed Project Period: 4/18-3/23
Total Direct Costs: $1,801,112
Co-Is: Gerianne Alexander, Steve Balsis, Lisa Geraci, Huiyan Sang
Goal: Determine trajectories of cerebellar structural and network decline during middle age and older adulthood with respect to motor and cognitive performance changes, and to examine sex differences in both cerebellar and behavioral trajectories
Scored, unfunded after October 2016 submission; Resubmitted July 2017

National Institute of Mental Health R01
Title: Motor Measures of Basal Ganglia and Cerebellar Circuit Dysfunction in Psychosis
Principal Investigators: Jessica Bernard, Vijay Mittal
Proposed Project Period: 4/18-3/23
Total Direct Costs (TAMU): $890,582
CO-Is: Daniel Corcos, James Reilly, Morris Goldman, Hongwei Zhao

Goal: Evaluate the utility of motor measures linked with basal ganglia and cerebellar circuits in supplementing traditional diagnostic measures of psychosis, across degrees of disease vulnerability.

National Institute of Mental Health R01
Title: Identification of Prefrontal-Cerebellar Networks Supporting Human Executive Function
Principal Investigators: Jessica Bernard, Joseph Orr
Proposed Project Period: 4/18-3/23
Total Direct Costs: $1,879,311
Co-Is: Jim Ji
Goal: Determine the role of cerebello-frontal circuits with respect to different aspects of human executive function using multi-modal neuroimaging and non-invasive brain stimulation.

Completed
National Institute of Mental Health (NIMH) Ruth L. Kirschstein National Research Service Award
Title: Cerebellar Contributions to Disease Course in Youth at High-Risk of Psychosis
F32MH102898-01
Role: Post-Doctoral Trainee
Sponsor: Vijay A. Mittal, Co-Sponsors: Marie T. Banich & Jessica A. Turner
October 2013-July 2015
Impact Score: 17 Percentile: 4
Direct Costs: $98,428

National Institute of Aging (NIA) National Research Service Award (NRSA) Institutional Training Grant
NIA T32AG000279
October 2012-August 2013
Role: Post-doctoral Trainee
University of Colorado Denver, Department of Neurology
PI: Robert Schwartz
Mentor: Benzi Kluger, Co-Mentor: Roger Enoka

National Institute of Aging (NIA) National Research Service Award (NRSA) Institutional Training Grant
NIA T32AG000114
2010-2012
Role: Pre-doctoral Trainee
University of Michigan, Department of Psychology
PI: Richard Miller
Mentor: Rachael D. Seidler

Submitted, Unfunded
American Federation for Aging Research Grant for Junior Faculty
Competitive Letter of Intent, Not asked to complete full application

Title: Non-Invasive Brain Stimulation to Modulate the Midbrain in Older Adults: A Preliminary Investigation of the Role of Dopamine on Cerebellar Function
Principal Investigator: Jessica Bernard
Proposed Project Period: 7/16-6/18
Total Direct Costs: $100,000
Goal: Quantify changes in cerebellar networks and function in older adults when dopamine is altered using non-invasive brain stimulation

PESCA Award
Title: Frontal Transcranial Direct Current Stimulation and Midbrain Function: Dopaminergic Modulation, Striatal Connectivity, and Behavior
Role: PI
Proposed Project Period: 5/1/17-4/31/18
Total Direct Costs: $24,491.25
Co-Is: Joseph Orr, Darrell Worthy
Goal: Investigate the modulation of midbrain dopamine through the use of transcranial direct current stimulation.

Keck Foundation Undergraduate Education Program
Concept Paper Submitted for Internal Consideration at TAMU
Title: Intensive Undergraduate Experience in Human Neuroimaging
Direct Costs: $400,000
Project Period: 9/2016 – 8/2018
Role: Co-PI (Other PIs: Drs. Joseph Orr and Darrell Worthy)

Texas A&M Research Development Fund
Title: Acquisition of a 7T Whole Body MRI Scanner for an Institute of Imaging Science
Role: Co-Investigator
Direct Costs: $5,671,000
Goal: Develop an Institute of Imaging Science, and improve the resources for neuroimaging on the Texas A&M Campus

AWARDS & HONORS

2016-2017	National Institutes of Health Clinical Loan Repayment Award (Renewal)
2015	International Congress on Schizophrenia Research Young Investigator Travel Award
2014-2016	National Institutes of Health Clinical Loan Repayment Award
October 2012-August 2013	University of Colorado Integrative Physiology of Aging T32 Training Grant
2012	Rackham One-Term Dissertation Fellowship, University of Michigan
2010-2012	University of Michigan Biology of Aging T32 Training Grant
2011	Elderhostel K. Patricia Cross Doctoral Research Grant Finalist (Top 7 Of Over 100 Applications)
2011	Rackham Conference Travel Grant, University of Michigan
2010	Rackham Conference Travel Grant, University of Michigan

2010	Barbara Perry Roberson Fellowship, University of Michigan
2009	Michigan Center for Advancing Safe Transportation Throughout the Lifespan (MCASTL) Student of the Year
2009	Barbara A. Oleshansky Memorial Award
2009	NSF Graduate Research Fellowship Program Honorable Mention
2008	Rackham Graduate Student Research Grant, University of Michigan
2008	Rackham Conference Travel Grant, University of Michigan

SCHOLARLY WORKS
Published Manuscripts
H-index: 19 I10-index: 27 Total citations: 1421
Statistics from Google Scholar Citations
*TAMU Laboratory Staff #TAMU Graduate Student

Osborn, K.J., **Bernard, J.A.**, Gupta, T., Dean, D.J., Millman, Z., Vargas, T., Ristanovic, I., Schiffman, J., & Mittal, V.A. (In Press). Beat Gestures and Postural Control in Youth at Ultrahigh Risk for Psychosis. *Schizophrenia Research*

Clark, S.V., Ahmadi, A., **Bernard, J.A.**, Mittal, V.A., & Turner, J.A. (In Press). Stronger default mode network connectivity is associated with poorer clinical insight in adolescents at ultra-high risk for psychosis. *Schizophrenia Research.*

Mittal, V.A., **Bernard, J.A.,** & Northoff, G. (In Press). A circuit-based perspective of motor research in psychiatric disorders. *Schizophrenia Bulletin.*

Bernard, J.A., Goen, J.R.M.*, Maldonado, T.# (In Press). A Case for Motor Network Contributions to Psychosis Symptoms: Evidence from Resting State Connectivity. *Human Brain Mapping.*

Bernard, J.A., Orr, J.M., & Mittal, V.A. (2017). Cerebello-thalamo-cortical networks predict positive symptom progression in individuals at ultra-high risk for psychosis. *Neuroimage: Clinical,* 14, 622-628.

Bernard, J.A., Russell, C.E., Newberry, R.E., Goen, J.R.M.*, Mittal, V.A. (2017). Patients with schizophrenia show aberrant patterns of basal ganglia activation: evidence from ALE meta-analysis. *NeuroImage: Clinical,* 14, 450-463.

Gupta, T., Silverstein, S.M., **Bernard, J.A.**, Keane, B.P., Papathomas, T.V., Pelletier-Baldelli, A., Dean, D.J., Newberry, R.E., Ristanovic, I., & Mittal, V.A. (2016). Disruptions in neural connectivity associated with reduced susceptibility to a depth inversion illusion in youth at ultra high risk for psychosis. *NeuroImage: Clinical*, 12, 681-690.

Bernard, J.A., Orr, J.M., & Mittal, V.A. (2016). Differential motor and prefrontal cerebello-cortical network development: evidence from multimodal neuroimaging. *NeuroImage,* 124 (Part A), 591-601.

Dean, D.J., Orr, J.M., **Bernard, J.A.**, Gupta, T., Pelletier-Baldelli, A., Carol, E.E., & Mittal, V.A. (2016). Hippocampal shape abnormalities predict disease progression in

neuroleptic-free youth at ultra high risk for psychosis. *Schizophrenia Bulletin,* 42(1), 161-169.

Bernard, J.A., Millman, Z.B., & Mittal, V.A. (2015). Beat and metaphoric gestures are differentially associated with regional cerebellar and cortical volumes. *Human Brain Mapping,* 36(10), 4016-4030.

Bernard, J.A. & Mittal, V.A. (2015). Updating the research domain criteria: the utility of a motor dimension. *Psychological Medicine,* 45(13), 2685-2689.

Pelletier-Baldelli, A., **Bernard, J.A.**, Mittal, V.A. (2015). Intrinsic functional connectivity and social processes in youth at ultra-high risk for psychosis. *PLoS One,* 10(8), e0134936.

Bernard, J.A. & Mittal, V.A. (2015). Dysfunctional activation of the cerebellum in schizophrenia: a functional neuroimaging meta-analysis. *Clinical Psychological Science,* 3(4), 545-566.

Bernard, J.A., Orr, J.M., & Mittal, V.A. (2015). Abnormal hippocampal-thalamic white matter tract development and positive symptom course in adolescents at ultra high-risk for psychosis. *npj Schizophrenia,* 1, Article number 15009.

Festini, S.B., **Bernard, J.A.,** Kwak, Y., Peltier, S., Bohnen, N.I., Muller, M.LT.M., Dayalu, P, & Seidler, R.D. (2015). Cerebellar connectivity in Parkinson's patients ON and OFF medication: evidence for compensatory and pathological connectivity. *Frontiers in Human Neuroscience,* 9, 214.

Dean, D.J., Kent, J.S., **Bernard, J.A.**, Orr, J.M., Gupta, T., Pelletier-Baldelli, A., Carol, E.E., & Mittal, V.A. (2015). Increased postural sway predicts negative symptom progression in youth at ultra high-risk for psychosis. *Schizophrenia Research*, 162(1-3), 86-89.

Bernard, J.A., Leopold, D.R., Calhoun, V.D., & Mittal, V.A. (2015). Regional cerebellar volume and cognitive function from adolescence to late middle age. *Human Brain Mapping,* 36(3), 1102-1120.

Bernard, J.A. & Mittal, V.A. (2014). Cerebellar motor dysfunction in schizophrenia and psychosis risk: the importance of regional cerebellar analysis approaches. *Frontiers in Psychiatry Schizophrenia*, 5, 160.

Mittal, V.A., Dean, D.J., **Bernard, J.A.,** Orr, J.M., Pelletier-Baldelli, A.L., Carol, E., Gupta, T., Turner, J., Leopold, D., Robustelli, B., & Millman, Z. (2014). Neurological soft signs predict abnormal cerebellar-thalamic tract development and negative symptoms in adolescents at high-risk for psychosis: a longitudinal perspective. (Invited Submission). *Schizophrenia Bulletin*, 40(6), 1204-1215.

Bernard, J.A., Dean, D.J., Kent, J.S., Orr, J.M., Pelletier-Baldelli, A., Lunsford-Avery, J., Gupta, T., & Mittal, V.A. (2014). Cerebellar Networks in Individuals at Ultra High-Risk

of Psychosis: Impact on Postural Sway and Symptom Severity. *Human Brain Mapping,* 35(8), 4064-4078.

Bernard, J. A., Peltier, S. J., Benson, B.L., Wiggins, J. L., Jaeggi, S. M., Buschkuehl, M., Jonides, J. Monk, C. S., & Seidler, R. D. (2014). Dissociable functional networks of the human dentate nucleus. *Cerebral Cortex*, 24(8), 2151-2159.

Bernard, J.A. & Seidler, R.D. (2014). Moving forward: Age effects on the cerebellum underlie cognitive and motor declines. *Neuroscience and Biobehavioral Reviews*, 42, 193-207.

Bo, J., Lee, C.M., Kwak, Y., Peltier, S.J., **Bernard, J.A.,** Buschkuehl, M., Jaeggi, S.M., Wiggins, J.L., Jonides, J., Monk, C.S., & Seidler, R.D. (2014). Lifespan differences in cortico-striatal resting state connectivity. *Brain Connectivity*, 4, 166-180.

Buschkuehl, M., Hernandez-Garcia, L., Jaeggi, S.M., **Bernard, J.A**., & Jonides, J. (2014). Neural effects of short-term training on working memory. *Cognitive, Affective, and Behavioral Neuroscience,* 14, 147-160.

Dean, D.J., **Bernard, J.A.**, Orr, J.M., Pelletier, A.L., Gupta, T., Carol, E.E, & Mittal, V.A. (2014). Cerebellar morphology and procedural learning impairment in neuroleptic-naïve youth at ultra high-risk of psychosis. *Clinical Psychological Science*, 2, 152-164.

Lunsford-Avery, J.R., Orr, J.M., Pelletier-Baldelli, A.L., Dean, D.J., Smith Watts, A.K., **Bernard, J.A.**, Millman, Z.B., Mittal, V.A. (2013). Sleep dysfunction and thalamic abnormalities in adolescents at ultra high-risk for psychosis. *Schizophrenia Research*, 151, 148-153.

Bernard, J.A. & Seidler, R.D. (2013). Relationships between regional cerebellar volume and sensorimotor and cognitive function in young and older adults. *The Cerebellum*, 12, 721-737.

Seidler, R.D., Kwak, Y.B., Fling, B.W., & **Bernard, J.A.** (2013). Neurocognitive mechanisms of error-based motor learning. *Advances in Experimental Medicine and Biology,* 782, 39-60.

Bernard, J. A., Peltier, S. J., Benson, B.L., Wiggins, J. L., Jaeggi, S. M., Buschkuehl, M., Fling, B.W., Kwak, Y., Jonides, J. Monk, C. S., & Seidler, R. D. (2013). Disrupted cortico-cerebellar connectivity in older adults. *NeuroImage*, 83, 103-119.

Bernard, J.A., & Seidler R.D. (2013). Cerebellar contributions to visuomotor adaptation and motor sequence learning: An ALE meta-analysis. *Frontiers in Human Neuroscience,* 7:27.

Bernard, J.A. & Seidler, R.D. (2012). Hand dominance and age have interactive effects on motor cortical representations. *PLOS One*, 7(9): e45443.

Bernard, J. A., Seidler, R.D., Hassevoort, K., Benson, B.L., Wiggins, J. L., Jaeggi, S. M., Buschkuehl, M., Jonides, J. Monk, C. S., & Peltier, S.J. (2012). Resting state cortico-cerebellar functional connectivity networks: A comparison of anatomical and data-driven approaches. *Frontiers in Neuroanatomy*, 6:31.

Bernard, J.A. & Seidler, R.D. (2012). Evidence for motor cortex dedifferentiation in older adults. *Neurobiology of Aging,* 33, 1890-1899.

Anguera, J.A., **Bernard, J.A.,** Reuter-Lorenz, P.A., Jaeggi, S.M., Buschkuehl, M., Benson, B.L, Jennett, S., Humfleet, J., Jonides, J., & Seidler, R.D. (2012). The effects of working memory resource depletion and training on sensorimotor adaptation. *Behavioural Brain Research*, 228, 107-115.

Bernard, J.A., Taylor, S.F., & Seidler, R.D. (2011). Handedness, dexterity, and motor cortical representations. *Journal of Neurophysiology,* 105, 88-99.

Seidler, R.D., **Bernard, J.A.**, Burutolu, T.B., Fling, B.W., Gordon, M.T., Gwin, J.T., Kwak, Y., & Lipps, D.B. (2010). Motor control and aging: links to brain structural, functional and biochemical changes. *Neuroscience and Biobehavioral Reviews,* 34(5), 721-733.

Fling, B.W., **Bernard, J.A.**, Bo, J., & Langan, J. (2008). Corpus callosum and bimanual coordination in multiple sclerosis. *Journal of Neuroscience, 28*(29), 7248-7249. Journal club feature.

Keene, A.C., Krashes, M.J., Leung, B., **Bernard, J.A.**, & Waddell, S. (2006). *Drosophila* dorsal paired medial neurons provide a general mechanism for memory consolidation. *Current Biology,* 16, 1524-1530.

Manuscripts Under Review/Revision

Bernard, J.A. & Orr, J.M. (Under Revision). Neuroimaging Biomarkers of Psychopathology: A Silver Bullet for Prediction, or Too Soon to Tell?

Damme, K., Gupta, T., Nusslock, R., **Bernard, J.A.**, Orr, J.M., & Mittal, V.A. (Under Review). Cortical Morphometry in the Psychosis Risk Period: A comprehensive perspective of surface features.

Pelletier-Baldelli, A., Orr, J.M., **Bernard, J.A.,** & Mittal, V.A. (Under Review) Do youth at risk for psychosis like being liked? A functional magnetic resonance imaging investigation.

Manuscripts in Preparation

Bernard, J.A., Nguyen, A., Goen, J.R.M., Maldonado, T[#]. (In Preparation). Age differences in cerebellar activation support HAROLD subcortically: Evidence from ALE meta-analysis.

Bernard, J.A., Orr, J.M., & Mittal, V.A. (In Preparation). Functional evidence of cerebellar dysfunction in psychosis risk during higher-order rule learning.

Orr, J.M., Jackson, T.B.[#], & **Bernard, J.A.** (In Preparation). Dissociable patterns of PFC-cerebellum connectivity with implications for hierarchical models of executive function.

Orr, J.M., #Lopez, J., Pelletier-Baldelli, A., **Bernard, J.A.** & Mittal, V.A. (In Preparation). Disrupted prefrontal dynamics underlying rapid task learning in adolescents at ultra-high risk for psychosis.

Invited Talks

The cerebellum in cognition and motor function: lifespan developmental and clinical perspectives. Department of Psychology, Center for Brain, Biology and Behavior, University of Nebraska-Lincoln. January 2015.

The cerebellum in cognition and motor function: lifespan developmental and clinical perspectives. Departments of Psychology and Neurology, University of Iowa, December 2014.

The cerebellum in cognition and motor function: lifespan developmental and clinical perspectives. Department of Psychology, Texas A&M University, October 2014.

The cerebellum in cognition and motor function: lifespan developmental and clinical perspectives. Clinical Psychology Brown Bag Series, The University of Colorado Boulder, September 8, 2014.

Cognitive contributions of the human cerebellum: Cortico-cerebellar networks, aging, & behavior. Determinants of Executive Function and Dysfunction Weekly Speaker Series, The University of Colorado, Boulder, February 28, 2012.

Do metrics of cerebellar volume explain individual differences in motor function? Cognition & Cognitive Neuroscience Forum, The University of Michigan, March 30, 2012.

Using resting state functional connectivity to study cerebellar networks. The University of Michigan Functional MRI Symposium, The University of Michigan, September 30, 2011.

Cerebellar networks in young and older adults: a proposal and preliminary data. The LIFE Program Spring Academy, The University of Michigan, May 19, 2011.

Evidence for the expansion of motor cortical representations in older adults. Cognition & Cognitive Neuroscience Forum, The University of Michigan, February 25, 2011.

Motor cortical representations: The effects of age and handedness. Biology of Aging Training Grant Seminar, The University of Michigan, December 6, 2010.

Relationships between handedness, ipsilateral motor representations, and interhemispheric interactions. Cognition & Cognitive Neuroscience Forum, The University of Michigan, October 30, 2009.

Relationships between handedness, ipsilateral motor representations, and interhemispheric interactions. The LIFE Program Fall Academy, The University of Michigan, October 16, 2009.

Conference Presentations

*Indicates oral presentation #TAMU Lab Member/Student

Bernard, J.A., Goen, J.R.M.#, Maldonado, T.# (2017). Cerebellar-Motor Connectivity in Patients with Schizophrenia: Insight Into Negative Symptom Severity. *The 24th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

Orr, J.M., Jackson, T.B.#, & **Bernard, J.A.** (2017). Dissociable patterns of PFC-cerebellum connectivity with implications for hierarchical models of executive function. *The 24th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

Clark, S.V., **Bernard, J.A.,** Ahmadi, A., King, T.Z., Latzman, R.D., Turner, J.A., & Mittal, V.A. (2017). Cognitive insight in youth at ultra high-risk of psychosis: relationships with cognition, symptoms, and default mode connectivity. *Forty Fifth Annual International Neuropsychological Society Meeting, New Orleans, LA.*

*Clark, S.V., Ahmadi, A., **Bernard, J.A.,** Turner, J.A., Mittal, V.A. (2017) Insight and cerebello-cortical connectivity in adolescents at ultra high-risk of schizophrenia. *16th International Congress on Schizophrenia Research, San Diego, CA.*

Russell, C.E., Newberry, R.E., Mittal, V.A., & **Bernard, J.A.** (2016). Patients with schizophrenia show aberrant patterns of basal ganglia activation: evidence from ALE meta-analysis. *The Thirtieth Annual Meeting of the Society for Research in Psychopathology, Baltimore, MD.*

Bernard, J.A., Orr, J.M., Dean, D.J., & Mittal, V.A. (2016). Abnormal cerebellar activation in psychosis risk during learning: Support for cerebellar dysfunction. *The Twenty-Second Annual Meeting of the Organization for Human Brain Mapping, Geneva, Switzerland.*

***Bernard, J.A.** (2016). Cerebellar networks, function, and positive symptom progression in psychosis risk. *71st Annual Meeting of the Society of Biological Psychiatry, Atlanta, GA* Presented as part of the symposium "Role of Cerebellum In Schizophrenia Spectrum Disorders"

Bernard, J.A., Orr, J.M., & Mittal, V.A. (2015). Cerebello-thalamo-motor networks and positive symptom course in individuals at ultra-high risk for psychosis: evidence from functional & structural connectivity. *The Twenty-Ninth Annual Meeting of the Society for Research in Psychopathology, New Orleans, LA.*

Pelletier-Baldelli, A., **Bernard, J.A.,** & Mittal, V.A. (2015). Affective and expressive negative symptoms: a longitudinal functional resting state connectivity study in youth at ultra high-risk for psychosis. *The Twenty-Ninth Annual Meeting of the Society for Research in Psychopathology, New Orleans, LA.*

Orr, J.M., Newberry, R.E., **Bernard, J.A.**, & Mittal, V.A. (2015). Disrupted verbal selection and the association with negative symptoms in adolescents at ultra high-risk for psychosis. *The Twenty-Ninth Annual Meeting of the Society for Research in Psychopathology, New Orleans, LA.*

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Bernard, J.A. & Mittal, V.A. (2015). Cerebello-cortical connectivity and symptom course in individuals at ultra high-risk for psychosis. *The Twenty-First Annual Meeting of the Organization for Human Brain Mapping, Honolulu, HI.*

Boker, S.M., Seidler, R.D., & **Bernard, J.A.** (2015). Decomposing nonstationary relationships between multiple BOLD timeseries. *Alpine Brain Imaging Meeting, Champéry, Switzerland.*

Bernard, J.A., Orr, J.M., & Mittal, V.A. (2015). Abnormal hippocampal-thalamic white matter tract development and disease course in adolescents at ultra high-risk for psychosis. 15th *International Congress on Schizophrenia Research, Colorado Springs, CO.*

Bernard, J.A., & Mittal, V.A. (2014). Cerebello-thalamo-cortical tractography in individuals at ultra high-risk for psychosis. *The Twenty-Eighth Annual Meeting of the Society for Research in Psychopathology, Evanston, IL.*

Pelletier-Baldelli, A., **Bernard, J.A.,** & Mittal, V.A. (2014). Youth at ultra high-risk for psychosis show distinct functional connectivity associations with facial emotion recognition and social functioning. *The Twenty-Eighth Annual Meeting of the Society for Research in Psychopathology, Evanston, IL.*

Dean, D.J., **Bernard, J.A.,** Orr, J.M., Gupta, T., Pelletier-Baldelli, A., Carol, E., Mittal, V.A. (2014). Psychosocial distress and increased cortico-striatal connectivity in youth at risk for psychosis. *The Twenty-Eighth Annual Meeting of the Society for Research in Psychopathology, Evanston, IL.*

Bernard, J.A., & Mittal, V.A. (2014). Dysfunctional activation of the cerebellum in schizophrenia: a functional neuroimaging meta-analysis. *The Twentieth Annual Meeting of the Organization for Human Brain Mapping, Hamburg, Germany.*

Festini, S.B., **Bernard, J.A.,** Kwak, Y., Peltier, S.J., Bohnen, N.I., Muller, M.L.T.M., Dayalu, P., & Seidler, R.D. (2014). Evidence for compensatory and pathological cerebellar connectivity in Parkinson's disease. *The Twenty-First Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.*

*Boker, S.M., Seidler, R.D., & **Bernard, J.A.** (2014). Windowed cross-correlation of BOLD signals. *Alpine Brain Imaging Meeting, Champéry, Switzerland.*

Festini, S.B., **Bernard, J.A.**, Kwak, Y., Peltier, S.J., Bohnen, N.I., Muller, M.L.T.M., Dayalu, P., & Seidler, R.D. (2013). Cerebellar resting state functional connectivity in Parkinson's

patients ON and OFF medication. *Annual Meeting of the Society for Neuroscience, San Diego, CA.*

Bernard, J.A., Orr, J.M., Dean, D.J., & Mittal, V.A. (2013). White matter of the middle and superior cerebellar peduncles in individuals at ultra high-risk of psychosis. *The Twenty Seventh Annual Meeting of the Society for Research in Psychopathology, Oakland, CA.*

*Orr, J.M., Pelletier-Baldelli, A., Dean, D. J., **Bernard, J.A.,** & Mittal, V.A. (2013). Volumetric differences in youth at high risk for psychosis. *The Twenty Seventh Annual Meeting of the Society for Research in Psychopathology, Oakland, CA.* Paper Presentation Talk.

Bernard, J.A. & Seidler, R.D. (2012). Do regional cerebellar volumes explain individual differences in sensorimotor function? *Annual Meeting of the Society for Neuroscience*, *New Orleans, LA.*

Dean, D.J., **Bernard, J.A.,** Gupta, T., Pelletier, A., Avery, J., & Mittal, V.A. (2012). Non-declarative learning and cerebellar morphology in youth at-risk for psychosis. *The Twenty Sixth Annual Meeting of the Society for Research for Psychopathology, Ann Arbor, MI.*

Bernard, J.A., Peltier, S.J., Hassevoort, K., Wiggins, J.L., Jaeggi, S.M., Buschkeuhl, M., Jonides, J., Monk, C.S., & Seidler, R.D. (2012). Resting state cortico-cerebellar functional connectivity patterns of the cerebellar lobules and vermis. *The Nineteenth Annual Meeting of the Cognitive Neuroscience Society, Chicago, IL.*

Lee, C.M., Bo, J., Kwak, Y.B., Peltier, S.J., **Bernard, J.A.,** Jonides, J., Monk, C.S., & Seidler, R.D. (2011). Lifespan changes in cortico-striatal resting state connectivity. *Annual Meeting of the Society for Neuroscience, Washington, DC.*

Bernard, J.A., Peltier, S.J., Wiggins, J.L., Jaeggi, S.J., Buschkeuhl, M., Jonides, J., Monk, C.S., & Seidler, R.D. (2011). Dissociable functional networks of the human dentate nucleus. *Methods for Studying Human Cerebellar Structure and Function Workshop, Johns Hopkins University, Baltimore, MD.*

Bernard, J.A., & Seidler, R.D. (2010). Age differences in motor cortical maps. *Annual Meeting of the Society for Neuroscience, San Diego, CA.*

Bernard, J.A., Peltier, S.J., Monk, C.S., Wiggins, J.L., & Seidler, R.D. (2010). Connectivity of the cerebellar dentate nucleus is correlated with working memory performance. *Second Biennial International Conference on Resting-State Functional Brain Connectivity, Milwaukee WI.,* and *Annual Meeting of the Society for Neuroscience, San Diego, CA.*

Bernard, J.A., Peltier, S. J., Monk, C.S., Wiggins, J.L. & Seidler, R.D. (2010). Mapping resting state connectivity of the human deep cerebellar nuclei. *The Sixteenth Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.*

Jaeggi, S.M., Buschkuehl, M., Hernandez, L., **Bernard, J.A.**, & Jonides, J. (2010). Neural correlates of n-back training: A pseudo-continuous arterial spin labeling (pCASL) study.

The Seventeenth Annual Meeting of the Cognitive Neuroscience Society, Montreal, Canada.

Bernard, J.A., Trivedi, R., & Seidler, R.D. (2009). Motor cortical representations and interhemispheric communication with age. *Annual Meeting of the Society for Neuroscience, Chicago, IL.*

Bernard, J.A. & Seidler, R.D. (2009). Factors mediating motor cortical representations. *The Sixteenth Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.*

Bernard, J.A. & Seidler, R.D. (2008). Relationships between handedness and interhemispheric transfer time. *The Life Course: Evolutionary and Ontogenetic Dynamics (LIFE) Fall Academy, Max Planck Institute for Human Development, Berlin, Germany.*

Bernard, J.A. & Seidler, R.D. (2008). Relationships between handedness and interhemispheric transfer time. *Third International Conference on TMS and tDCS, Göttingen, Germany.*

Bernard, J.A., & Seidler, R.D. (2008). Relationships between handedness and interhemispheric transfer time in younger and older adults – Preliminary findings. *University of Michigan Geriatrics Symposium*, *Ann Arbor, MI.*

PROFESSIONAL ACTIVITIES

Ad Hoc Manuscript Reviewer

Experimental Brain Research, NeuroImage, PLoS ONE, Neuroscience, Schizophrenia Bulletin, Neural Plasticity, Human Movement Science, Frontiers in Integrative Physiology, Journal of Abnormal Psychology, Brain and Behavior, Frontiers in Human Neuroscience, Medical Principles and Practice, Neuropsychologia, Cerebellum, Psychological Medicine, Human Brain Mapping, Journal of Motor Behavior, Cerebral Cortex, Journal of Neuroscience, Schizophrenia Bulletin, Developmental Cognitive Neuroscience, Journal of Applied Biomedicine

Ad Hoc Grant Review

Biotechnology and Biological Sciences Research Council (UK), 2014
Danish Council for Independent Research: Medical Sciences, 2015
Italian Ministry of Health, 2015
Research Foundation Flanders (FWO), 2016

Society Memberships

Society for Neuroscience, Cognitive Neuroscience Society, American Psychological Society, Organization for Human Brain Mapping

Service Activities

2016	NIMH Research Domain Criteria Motor Domain Council Workshop Participant
2016	TAMU Psychology Affective Neuroscience Faculty Search Committee

2016	TAMU APA Summer Research Scholars Mentor (An Nguyen, Truman State University)
2016 – Present	TAMU Psychology Faculty Development & Awards Committee
2014 - Present	Organization for Human Brain Mapping Annual Meeting Abstract Reviewer
2011-2012	Cognition & Cognitive Neuroscience Graduate Admissions Committee
2011-2012	Cognition & Cognitive Neuroscience Departmental Associate (student representative at faculty meetings)
2008-2011	Cognition & Cognitive Neuroscience Area Recruitment Committee
2008	Brains Rule Day, Dec. 3, 2008, Hands On Museum, Ann Arbor, MI
2008 – Present	Tufts University Alumni Admissions Program, Alumni Interviewer
2008 – 2009	Science Fair Judge, Wachusett Regional High School
2008 – 2009	Invited lecture, "How do we study the brain?" Wachusett Regional High School
2007 – 2009	Cognition & Cognitive Neuroscience Area Forum Committee

TEACHING EXPERIENCE

Doctoral Students

Ted Maldonado 2016-

Doctoral Dissertation Committees

2015-Present	Andrea Pelletier-Baldelli, Psychology & Neuroscience, University of Colorado Boulder – Adjunct Member
2015-Present	Kaileigh Byrne, Department of Psychology, Texas A&M University – Committee Member
2015-Present	Bo Pang, Department of Psychology, Texas A&M University – Committee Member
2016-Present	David Houghton, Department of Pyschology, Texas A&M University – Committee Member
2016-Present	Taewon Kim, Division of Kinesiology, Texas A&M University – Committee Member

Undergraduate Mentoring

Psychology/Neuroscience 485/491 – Spring 2016-Fall 2017, 9 undergraduate students

Classroom Teaching

Fall 2016,
Spring 2017 Psychology 365: Psychology of Aging
Instructor of Record

Spring 2016 Psychology 689 Special Topics: Psychology & Neuroscience of Motor Control
Instructor of Record

Winter 2010 Introduction to Developmental Psychology, University of Michigan, Ann Arbor
Graduate Student Instructor

Student Evaluation Rating: 4.5/5
Responsibilities: Running weekly discussion sections, designing discussion activities, grading papers and oral presentations, providing feedback on student writing, designed and gave lecture "The Physical Challenges of Aging"

Fall 2009 Human Neuropsychology, University of Michigan, Ann Arbor, MI
Graduate Student Instructor
Student Evaluation Rating: 4.7/5
Responsibilities: Running weekly discussion sections including two lectures, grading weekly class assignments, oral presentations, and short answer exam questions

Fall 2008 Introduction to Cognitive Psychology, University of Michigan, Ann Arbor, MI
Graduate Student Instructor
Student Evaluation Rating: 4.6/5
Responsibilities: Running weekly discussion sections, grading weekly quizzes and papers, writing exam questions

2007-2014 Undergraduate Lab Supervision, University of Michigan, Ann Arbor, MI
University of Colorado Boulder
Mentored 20+ undergraduate students, including 2 Senior Honors Thesis students
Thesis Students:
Riti Trivedi: Graduate of the University of Pennsylvania Dental School, 2014
Kelsey Hassevoort: Doctoral student in Neuroscience at the University of Illinois, Urbana-Champaign

Additional Training

2012-2013 **Colorado Clinical & Translational Sciences Institute Colorado Mentor (CO-Mentor) Training Program**. Year-long training program with monthly meetings that covered effective mentoring strategies and techniques, particularly with respect to research mentoring.