

# Daniel R Westfall, B.A.

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## Work Address

Department of Kinesiology and Community Health  
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## Education

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| 2014 – Present | Doctoral student, Department of Neuroscience<br>University of Illinois, Urbana-Champaign, IL<br>Anticipated graduation date: Spring, 2020<br>Advisor: Charles H. Hillman, Ph.D. |
| 2007 – 2011    | Bachelor of Arts in Psychology, School of Psychological Sciences, University of Northern Colorado.  |

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## Professional Experience

### Research Experience:

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| 2014 – Present | Doctoral Research Assistant, Neurocognitive Kinesiology Laboratory University of Illinois, Urbana-Champaign, IL.<br>Laboratory Director: Charles Hillman<br>Responsible for data collection, reduction, and analysis including the creation of experimental protocols, implementation of task design, database management, and equipment preparation for multiple studies that examine the relationship between physical activity/fitness and cognitive function, as well as hydration status and cognitive function using electroencephalography and neurocognitive testing.<br>Additional duties include the coordination, training, and supervision of undergraduate activities (Laboratory Director: Charles Hillman, Ph.D.). |
| 2011 – 2014    | Research Technician, Center for Neuroimaging, Department of Radiology and Imaging Sciences, Indiana University School of Medicine. Laboratory Directors: Dr. Andrew Saykin and Dr. Brenna McDonald.<br>Responsibilities included neuropsychological test and MRI quality control, database management, MRI and fMRI processing and analysis using SPM8 and SPSS. Participant populations included: pediatric mild traumatic brain injury participants, pediatric acute lymphoblastic leukemia patients, breast cancer patients, pediatric epilepsy patients, and healthy controls. Other duties included training and supervising undergraduate interns.  |
| 2011 – 2014    | Research Technician, Larue D. Carter Memorial Hospital, Psychopathology   |

Lab. Laboratory Director: Dr. William Hetrick and Dr. Brian O'Donnell. Responsibilities included participant testing using electroencephalography, neurocognitive testing, as well as cerebellar assessments including AIMS, NSS, sway board, eye tracking, and eyeblink conditioning. Data input and analysis using SPSS. EEG/ERP processing and analysis using BrainVision Analyzer 2.0. Participant populations included: schizophrenia, schizoaffective personality disorder, first-degree relatives of schizophrenia participants, healthy controls. Other duties included training and supervising undergraduate interns.

Spring 2010 – Fall 2010 Research Assistant, University of Virginia Health System, Department of Neurology. Director: Dr. Scott Wylie. Responsibilities included data processing using SPSS syntax, data analysis, administration of electroencephalography and neurocognitive testing studying Parkinson's disease.

Fall 2008 – Spring 2014 Research Assistant, University of Northern Colorado, Department of Psychology. Laboratory Director: Dr. Theodore Bashore. Responsibilities included computer experiment programming using E-prime 2.0. Data processing using SPSS syntax and data analysis using SPSS, participants were college students.

Fall 2008 Research Assistant, University of Northern Colorado, Department of Psychology. Laboratory Director: Dr. Paul Klaczynski. Responsibilities included testing children in a bias and preference task and data entry using SPSS.

### Teaching Experience:

Guest Lectures The Psychology of Sport Performance (KIN 447) – Fall 2014  
Title: Concussion and Sports.

### Clinical Experience:

Fall 2009 Field Experience, North Range Behavioral Health, Greeley, Colorado. Responsibilities included group therapy for acute treatment center as well as supervision of detox clients. 135 hours total.

### Funded Research Involvement:

FitKids2 An afterschool physical activity intervention in children to investigate if improvements in cardiorespiratory fitness lead to better cognitive performance, from both behavioral and neuroelectric perspectives.

WITikids A study of hydration status and effects on cognition in children using both behavioral and neuroelectric perspectives.

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### Honors

2011 University of Northern Colorado, College of Education and Behavioral Sciences Undergraduate Scholar, 2011.

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## Publications

### Peer-Reviewed Journal Articles *(In print or accepted)*:

1. Bolbecker, A. R., **Westfall, D. R.**, Lackner, R. J., O'Donnell, B. F., & Hetrick, W. P. (2014) Increased timing variability in schizophrenia and bipolar disorder. *PLOS ONE*, 9(5).
2. Bolbecker A. R., Kent J. S., Petersen I. T., Klaunig M. J., Forsyth J. K., Howell J. M., **Westfall D. R.**, O'Donnell B. F., & Hetrick W. P. (2013). Impaired cerebellar-dependent eyeblink conditioning in first-degree relatives of individuals with schizophrenia. *Schizophrenia Bulletin*, 38(4), 751-759

### Manuscripts Submitted for Review:

1. **Westfall, D. R.**, Bailey, J. N., Stickans, L. K., Campbell, K. A., West, J. D., Arnold, T. W., Kersey, P. A., Saykin, A. J., & McDonald, B. C. Increased frontal activation during working memory processing after pediatric concussion: Persistent effects up to one year post-injury. Submitted to *Journal of Pediatric Rehabilitation Medicine*.
2. Wang, Y., West J. D., Bailey, J. N., **Westfall, D. R.**, Xiao, H., Arnold, T. W., Kersey, P. A., Saykin, A. J., & McDonald, B. C. Decreased cerebral blood flow in chronic pediatric mild TBI: An MRI perfusion study. Submitted to *Developmental Neuropsychology*.

### Manuscripts in Preparation:

1. **Westfall, D. R.**, Howell, J. M., Bolbecker, A. R., Erickson, M., Breier, A., O'Donnell, B. F., & Hetrick W. P. ERP measures of auditory processing in schizophrenia, first degree relatives, and schizotypal personality disorder.
2. McDonald, B. C., **Westfall, D. R.**, Bailey, J. N., Stickans, L. K., West, J. D., & Saykin, A. J. Altered Working Memory-Related Brain Activation after Leukemia Chemotherapy and Relationship to Academic Functioning.

### Posters *(In print or accepted)*:

1. **Westfall, D. R.**, West, J. D., McDonald, B. C., Bolbecker, A. R., O'Donnell, B. F., Francis, M., Mehdiyoun, N., Hetrick, W. P., Saykin A., & Breier, A. Neuroanatomical correlates of EEG and cognitive deficits in first-episode psychosis. Poster to be presented at the 9th International Conference on Early Psychosis. Tokyo, Japan.
2. **Westfall, D. R.**, West, J. D., McDonald, B. C., Bolbecker, A. R., O'Donnell, B. F., Francis, M., Mehdiyoun, N., Hetrick, W. P., Saykin A., & Breier, A. Neuroanatomical correlates of EEG and cognitive deficits in first-episode psychosis. Poster presented at the 28th Annual Meeting of the Society for Research in Psychopathology. Evanston, IL.
3. Bolbecker, A. R., Port, N., Redick, B., Howell, J. M., **Westfall, D. R.**, O'Donnell, B. F., & Hetrick, W. P. Confirmation of the cerebellar model of schizophrenia by saccadic adaptation and smooth pursuit eye movement experiments. Poster presented at the 28th Annual Meeting of the Society for Research in Psychopathology. Evanston, IL.
4. Rejimon, A., Kent J. S., Howell, J. M., **Westfall, D. R.**, Hong, S. L., Bolbecker, A. R., O'Donnell, B. F., & Hetrick, W. P. Neuropsychological correlates of cerebellar function in non-psychiatric controls and individuals with schizophrenia. Poster presented at the 28th Annual Meeting of the Society for Research in Psychopathology. Evanston, IL.
5. Olson, M., Bolbecker, A. R., **Westfall, D. R.**, Howell, J. M., Hetrick W. P., & O'Donnell, B. F. Relationship of schizotypal personality questionnaire dimensions to clinician ratings and cognitive performance in schizotypal personality disorder. Poster presented at the 28th Annual Meeting of the Society for Research in Psychopathology. Evanston, IL.
6. Schnakenberg, A., Andrews, C., Howell, J. M., **Westfall, D. R.**, Hetrick, W. P., Breier, A., & O'Donnell, B. F. Impaired

auditory perception in schizophrenia spectrum disorders. Poster presented at the 28th Annual Meeting of the Society for Research in Psychopathology. Evanston, IL.

7. McDonald, B. C., **Westfall, D. R.**, Bailey, J. N., Stickans, L. K., West, J. D., & Saykin, A. J. (February, 2014). Altered Working Memory-Related Brain Activation after Leukemia Chemotherapy and Relationship to Academic Functioning. Poster presented at the International Cognition and Cancer Task Force meeting. Seattle, WA.
8. Port, N. L., Redick, B., Howell, J., **Westfall, D.**, Bolbecker, A. R., O'Donnell, B. F., & Hetrick, W. P. (November, 2013). Confirmation of the cerebellar model of schizophrenia by saccadic adaptation and smooth pursuit eye movement experiments. Poster presented at the 43<sup>rd</sup> Annual Meeting of the Society for Neuroscience. San Diego, CA.
9. **Westfall, D. R.**, Bailey, J. N., Stickans, L. K., Campbell, K. A., West, J. D., Arnold, T. W., Kersey, P. A., Saykin, A. J., & McDonald, B. C. (October, 2013). Increased frontal activation during working memory processing after pediatric concussion: Persistent effects up to one year post-injury. Poster presented at the 3<sup>rd</sup> Indiana Neuroimaging Symposium. Bloomington, IN.
10. McDonald, B. C., **Westfall, D. R.**, Bailey, J. N., Stickans, L. K., West, J. D., & Saykin, A. J. (October, 2013). Altered Working Memory-Related Brain Activation after Leukemia Chemotherapy and Relationship to Academic Functioning. Poster presented at the 3<sup>rd</sup> Indiana Neuroimaging Symposium. Bloomington, IN.
11. **Westfall, D. R.**, Bailey, J. N., Stickans, L. K., Campbell, K. A., West, J. D., Arnold, T. W., Kersey, P. A., Saykin, A. J., & McDonald, B. C. (October, 2013). Increased frontal activation during working memory processing after pediatric concussion: Persistent effects up to one year post-injury. Poster presented at the Indianapolis Chapter of the Society for Neuroscience conference. Indianapolis, IN.
12. **Westfall, D. R.**, Josselyn, H. M., Bolbecker, A. R., Erickson, M., Breier, A., O'Donnell, B., & Hetrick W. (September, 2013). ERP measures of auditory processing in schizophrenia, first degree relatives, and schizotypal personality disorder. Poster presented at the 27th Annual Meeting of the Society for Research in Psychopathology. Oakland, CA.
13. Bolbecker, A. R., **Westfall, D. R.**, Lackner, R. J., Howell, J. M., Kent, J. S., Breier, A., O'Donnell, B. F., & Hetrick W., P. (September, 2013). Performance Patterns On Temporal Processing Tasks Differentiate Schizophrenia, Bipolar Disorder, And Healthy Controls. Poster presented at the 27th Annual Meeting of the Society for Research in Psychopathology. Oakland, CA.
14. Bolbecker, A. R., Kent, J. S., Klaunig, M. J., Forsyth, J. K., **Westfall, D.**, & Howell, J. (October, 2012). Cerebellar-Dependent Associative Learning is Impaired in Relatives of Individuals with Schizophrenia. Poster presented at the 26th Annual Meeting of the Society for Research in Psychopathology. Ann Arbor, MI.
15. **Westfall, D. R.**, Howell, J., Erickson, M., Bolbecker, A. R., Hetrick W. P., Breier, A., & O'Donnell, B. F. (September, 2012). Mismatch negativity task between schizophrenia and intermediate phenotypes. Poster presented at the Indianapolis Chapter of the Society for Neuroscience. Indianapolis, IN.
16. Klaczynski, P. A., Traxler, K., Jones, K., Foss, A., Thompson, Z., Feldman, M., & **Westfall, D.** (June, 2009). Preschooler's and kindergartner's reactions to drinks "created" by obese and diseased children: Evidence for a biological contagion explanation. Poster presented at the Annual Meeting of the Piaget Society. Park City, UT.

## Presentations & Symposia

1. **Westfall, D. R.**, Bailey, J. N., Stickans, L. K., Campbell, K. A., West, J. D., Arnold, T. W., Kersey, P. A., Saykin, A. J., & McDonald, B. C. (March, 2014). Increased frontal activation during working memory processing after pediatric concussion: Persistent effects up to one year post-injury. Abstract presented at the Tenth World Congress on Brain Injury. San Francisco, CA.
2. Wang, Y., West, J. D., Bailey, J. N., **Westfall, D. R.**, Xiao, H., Arnold, T. W., Kersey, P. A., Saykin A. J., McDonald, B. C. (March, 2014). Decreased cerebral blood flow in chronic pediatric mild traumatic brain injury: An MRI perfusion study. Abstract presented at the Tenth World Congress on Brain Injury. San Francisco, CA.

3. McDonald, B. C., **Westfall, D. R.**, Bailey, J. N., Stickans, L. K., West, J. D., & Saykin, A. J. (February, 2014). Altered Working Memory-Related Brain Activation after Leukemia Chemotherapy and Relationship to Academic Functioning. Paper presented at the 42nd International Neuropsychological Society meeting. Seattle, WA.
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## Professional Development

Fall 2014	National Science Foundation Graduate Research Fellowship Workshop (UIUC)
Summer 2014	The Science of Scientific Writing Workshop (IUPUI)
Spring 2014	EEG Data Analysis Workshop (IU Bloomington)
Fall 2013 - Spring 2014	Using PET in Research Seminar (IUPUI)
Spring 2012	EEG Workshop (IU Blooington)

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## Certifications

2014 – Present	Certified in American Red Cross CPR/First Aid
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