

# **Jared M. Bruce, Ph.D.**

## **CURRICULUM VITAE**

University of Missouri – Kansas City  
Department of Biomedical and Health Informatics  
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### **POSITIONS**

Professor (with tenure) 2019 - present	University of Missouri – Kansas City Department of Biomedical and Health Informatics School of Medicine UH Departments of Neurology and Psychiatry Director of Psychiatric Research
Neuropsychological Associate 2010 - present	National Hockey League Concussion Program Evaluation and Management  American Hockey League Concussion Program Evaluation and Management
Professor (with tenure) 2017- 2019	University of Missouri – Kansas City Department of Psychology, College of Arts and Sciences Department of Biomedical and Health Informatics, School of Medicine (secondary)
Associate Professor (with tenure) 2012 – 2017	University of Missouri – Kansas City Department of Psychology
Associate Editor 2011-2015	Archives of Clinical Neuropsychology
Undergraduate Program Director 2012- 2014	University of Missouri – Kansas City Department of Psychology
Assistant Professor 2007 - 2012	University of Missouri - Kansas City Department of Psychology

### **EDUCATION**

Post-Doctoral Fellow 2005-2007 Clinical Neuropsychology	Warren Alpert Medical School of Brown University Department of Psychiatry and Human Behavior (APA accredited)
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Doctor of Philosophy  
2005

The Pennsylvania State University  
Department of Psychology  
Clinical Psychology Program (APA accredited)

Psychology Intern  
2004-2005

VA Western New York Health Care System  
Predoctoral Internship (APA accredited)

Master of Science  
2001

The Pennsylvania State University  
Department of Psychology

Bachelor of Arts  
1998

University of Maine  
Major: Psychology

## PUBLICATIONS

*Note: A star (\*) indicates that the author is a graduate or undergraduate mentee*

1. Riegler, K., Echemendia, R., Meeuwisse, W., Hutchison, M., Delaney, S., **Bruce, J.M.** Examining the reliability and validity of coding perceived force severity and bracing in the NHL Spotter program. *Orthopedic Journal of Sports Medicine* (In Press).
2. Harmon, K., Whelan, B., Aukerman, D., Hwang, C., Poddar, SK, DeLeo, A., Garrupo, G., Holliday, **Bruce, J.M.** (In Press). Diagnosis of Sports-related Concussion using Symptom Report or Standardized Assessment of Concussion. *JAMA Network Open*.
3. Huebner, J.\*, Robichaud, J., Cozart, J., Burkhardt, C., Lynch, S., **Bruce, J.M.** (2024). Investigating the impact of polypharmacy and anticholinergic medication burden on objective cognitive performance in adults with multiple sclerosis. *International Journal of MS Care*, 26(2), 81-88.
4. Kumar, P., Zannotto, T., Cozart, J., Bruce, A.S., Siengasukon, C., Shook, R., Mahmoud, R., Simon, S., Hibbing, P., Drees, B., Huebner, J., Bradish, T., Robichaud, J., Sosnoff, J., **Bruce, JM** (2024). Association between frailty and sleep quality in people living with multiple sclerosis and obesity: an observational cross-sectional study. *Multiple Sclerosis and Related Disorders*, 81, 1051-54.
5. Cozart, J.S.\*, Bruce, A.S., Befort, C., Siengasukon, C., Lynch, S.G., Punt, S., Simon, S., Shook, R.P., Huebner, J., Bradish, T., Robichaud, J., & **Bruce, J.M.** (2023). A pilot study evaluating the prefeasibility of a behavioral weight loss program in people with multiple sclerosis. *Preventative Medicine Reports*. Sep 22: 36: 102437.
6. Hutchison, M., Di Battista, A., Meeuwisse, W., **Bruce, J.M.**, Echemendia, R., Delaney, JS, Comper, P. (2023). Concussion characteristics in the National Hockey League Before and After the Introduction of rule 48. *JAMA Network Open*, Nov: 1:6(11).

7. Cozart, J.S.\*, Bruce, A.S., Shook, R.P., Befort, C., Siengasukon, C., Simon, S., Lynch, S.G., Mahmoud, R., Drees, B., Posson, P., Hibbing, P.R., Huebner, J., Bradish, T., Robichaud, J., and **Bruce, J.M.** (2023). Body metrics are associated with clinical, free-living, and self-report measures of mobility in a cohort of adults with obesity and multiple sclerosis. *Multiple Sclerosis and Related Disorder Journal*. Nov; 79:105010.
8. **Bruce, J.M.**, Cozart, J., Shook, R., Before, C., Siengasukon, C., Simon, S., Lynch, S.G., Drees, B., Posson, P., Hibbing, P., Huebner, J., Bradish, T., Robichaud, J., Bruce, A.S. (2023). Modifying diet and exercise in multiple sclerosis (MoDEMS): a randomized controlled trial examining a behavioral weight loss intervention for adults with obesity and MS. *Multiple Sclerosis Journal*. Dec; 29(14): 1860-71.
9. Gold SM, Friede T, Meyer, B, Moss-Morris, R, Hudson J, Asseyer S, Bellmann-Strobl J, Leisdon A, Ißels L, Ritter K, Schymainski D, Pomeroy H, Lynch SG, Cozart JS, Thelen J, Román CAF, Cadden M, Guty E, Lau S, Pöttgen J, Ramien C, Seddiq-Zai S, Kloidt AM, Wieditz J, Penner IK, Paul F, Sicotte NL, **Bruce JM**, Arnett PA, Heesen C (2023). Internet-delivered cognitive behavioral therapy (iCBT) program to reduce depressive symptoms in multiple sclerosis: An international multicenter randomized controlled phase III trial. *The Lancet Digital Health*. Oct; 5(10): e668-e678.
10. Echemendia, R., Brett, B., Broglio, S., Davis, G., Giza, C., Guskiewicz, K., Harmon, K., Herring, S., Howell, D., Master, C., Valovich, T., McCrea, M., Patricios, J., Putukian, M., Walton, S., Schneider, K., Burma, J., **Bruce, J.M.** (2023). Introducing the Sport Concussion Assessment Tool 6 (SCAT6). *British Journal of Sports Medicine*. Jun; 57(11): 619-621.
11. Davis, G, Echemendia, R., Anderson, V., Brett, B., Broglio, S., **Bruce, J.**, Burma, J., Gioia, G., Giza, C., Guskiewicz, K., Harmon, K., Herring, S., Makdissi, M., Master, C., McCrea, M., McLeod, C., Meehan, W., Naidu, D., Patricios, J., Purcell, L., Putukian, M., Schneider, K., Walton, S., Yeates, K., Zemek, R. (2023). The Child Sports Concussion Assessment Tool 6<sup>th</sup> Edition (Child SCAT6). *British Journal of Sports Medicine*. Jun; 57(11):632-635.
12. Echemendia, R., Ahmed, O., Bailey, C., **Bruce, J.**, Burma, J., Davis, G., Gioia, G., Howell, D., Fuller, G., Master, C., van Ierssel, J., Pardini, J., Schneider, K., Walton, S., Zemek, R., Patricios, J. (2023). Introducing the Concussion Recognition Tool 6 (CRT6). *British Journal of Sports Medicine*. Jun; 57(11): 689-691.
13. Langley, C., Masuda, N, Godwin, S., De Marco, G., Smith, A., Jones, R., **Bruce, J.** (2023) Thai, N.J. Dysfunction of basal ganglia functional connectivity associated with subjective and cognitive fatigue in Multiple Sclerosis. *Frontiers in Neuroscience*. Jun 2:17:1194859.
14. Echemendia, R., Burma, J., **Bruce, J.M.**, Davis, G., Giza, C., Guskiewicz, K., Naidu, D., Black, A., Broglio, S., Kemp, S., Patricios, J., Putukian, M., Zemek, R., Arango-Lasprilla, J., Bailey, C., Brett, B., Didehbani, N., Gioia, G., Herring, S., Howell, D., Master, C., McLeod, T., Meehan, W., Premji, Z., Salmon, D., van Ierssel, J., Bhathela, N., Makdissi, M., Walton, S., Kissick, J., Pardini, J., Schneider, K. (2023). Acute evaluation of sport-related concussion and implications for the Sport Concussion Assessment Tool (SCAT6) for adults and adolescents: A systematic Review. *British Journal of Sports Medicine*. Jun; 57(11); 722-35.

15. Jarmolowicz, DP, Schneider, TD., Strickland, J.C., Bruce, A.S., Reed, D.D., **Bruce, J.M.** (2023). Reinforcer pathology, probabilistic choice, and medication adherence in patients with multiple sclerosis. *Journal of the Experimental Analysis of Behavior*. March, 119(2): 275-285.
16. Killian, H., Lim, L., **Bruce, J.**, Ha, O. (2023). Social rejection influences prosocial sharing decision-making in inequality contexts. *Current Psychology*, 42(8) 6372-6385.
17. Lynch, S, Baker, S, Hunt, S., Thuringer, A., Jassam, Y., **Bruce, J.** (2022). The impact of COVID-19 on the lives of individuals with multiple sclerosis: 1 year into the pandemic. *Int. J. MS Care*. 24(3): 139-144.
18. Harris, T. P., Zaeske, L. M., Ludwig, R., Baker, S., Lynch, S., Thuringer, A., **Bruce, J.**, & Siengsukon, C. F. (2022). Social support predicts sleep quality in people with multiple sclerosis during the COVID-19 pandemic. *Multiple Sclerosis and Related Disorders*, 103970. <https://doi.org/10.1016/j.msard.2022.103970>
19. **Bruce, J.M.**, Meeuwisse, W., Hutchison, M., Comper, P., and Echemendia, R (2022). Characterizing symptoms before and following concussion in professional hockey. *Clinical Journal of Sports Medicine*. *Clin J Sport Med*, 32(6): e580:e586.
20. Bellman, V., Chinthalapally, A., Johnston, E., Russell, N., **Bruce, J.**, Saleem, S. (2022). Malingering of psychotic symptoms in psychiatric settings: theoretical aspects and clinical considerations. *Psychiatry Journal*. Apr 21 2022. Doi: 10.1155/2022/3884317.
21. Bellman, V.\*, Ukolova, A., Erovichenkova, E., Lam, S., Srivastava, H., **Bruce, J.**, Burgess, D. (2022) Abuse of tropicamide eye drops: review of clinical data. *Brazilian Journal of Psychiatry*. *Brazilian Journal of Psychiatry*, 44(5), 522-31.
22. **Bruce, J.M.**, Meeuwisse, W., Hutchison, M., Comper, P., Echemendia, r. (2022). Determining Sport Concussion Assessment Tool 5<sup>th</sup> Edition (SCAT5) reliable change in male professional hockey players. *British Journal of Sports Medicine*. Online ahead of Print.
23. Strober, L, **Bruce, J.M.**, Arnett, P., Alschuler, K., DeLuca, J., Chiaravalloti, N., Lebkuecher, A., Di Benedetto, M., Cozart, J., Thelen, J., Guty, E., Roman, C. (2022). A much needed metric: Defining reliable and statistically meaningful change of the oral version Symbol Digit Modalities Test (SDMT). *Multiple Sclerosis and Related Disorders*, 57: 103405.
24. **Bruce, J.M.**, Meeuwisse, W., Thelen, J., Hutchison, M., Comper, P., Echemendia, R. (2021). A cross-sectional decision-making approach to inform neuropsychological battery development in professional hockey. *Archives of Clinical Neuropsychology*. Advanced Online Publication, doi: 10.1093.
25. Putukian, M. Riegler, K., Amalfe, S., **Bruce, J.**, Echemendia, R. (2021). Preinjury and post-injury factors that predict sports-related concussion and clinical recovery time. *Clinical Journal of Sports Medicine*, 31(1), 15-22.

26. Riegler, K.\*, Cadden, M., Guty, E., **Bruce, J.**, Arnett, P. (2021). Perceived fatigue impact and cognitive variability in multiple sclerosis. *J Int Neuropsychol Soc*, 31, 1-11.
27. Lynch, S., Baker, S., Nashatizadeh, M., Thuringer, A., Thelen, J., **Bruce, J.M.** (2021). Disability measurement in Multiple Sclerosis patients 55 years and older: What is the Expanded Disability Status Scale really telling clinicians? *Multiple Sclerosis and Related Disorders*, 49, PMID: 33609959.
28. **Bruce, J. M.**, Cozart, J.S., Shook, R. P., Ruppen, S., Siengsukon, C., Simon, S., Befort, C., Lynch, S., Mahmoud, R., Drees, B., Norouzinia, A.N., Bradish, T., Posson, P., Hibbing, P.R., & Bruce, A.S. (2021). Modifying Diet and Exercise in MS (MoDEMS): Study design and protocol for a telehealth weight loss intervention for adults with obesity & Multiple Sclerosis. *Contemporary Clinical Trials*, 107: 106495.
29. Thelen, J.\*, Zvonarev, V., Lam, S., Burkhardt, C., Lynch, S., **Bruce, JM** (2021). Polypharmacy in multiple sclerosis: Current knowledge and future directions. *Missouri Medicine*, 118 (3), 239-245.
30. Echemendia, R.J., Thelen, J.\*, Meeuwisse, W., Hutchison, M.G., Rizos, J., Comper, P., **Bruce, J.M.** (2020). The use of the sport concussion assessment tool – 5 (SCAT5) in professional hockey: Part 1 – Cross Cultural Normative Data. *British Journal of Sports Medicine*. Advanced Online Publication, doi: 10.1136.
31. Echemendia, R., Thelen, J.\*, Meeuwisse, W., Comper, P., Hutchison, M., **Bruce, J.** (2020). The utility of the King Devick Test in evaluating professional ice hockey players with suspected concussion. *Clinical Journal of Sports Medicine*, Advanced Online Publication, doi: 10.1097.
32. **Bruce, JM**, Thelen, J.\*, Meeuwisse, W., Hutchison, M.G., Rizos, J., Comper, P., Echemendia, R.J., (2020). The use of the sport concussion assessment tool-5 (SCAT5) in professional hockey: Part 2 – Which components differentiate concussed and non-concussed athletes. *British Journal of Sports Medicine*. Advanced Online Publication, doi:10.1136.
33. Echemendia, R., **Bruce, J.** Thelen, J\*, Comper, P., Meeuwisse, W., Hutchison, M., Rizos, J. (2020). Neuropsychological assessment of professional ice hockey players: a cross cultural examination of baseline data across language groups. *Archives of Clinical Neuropsychology*, 35(3), 240-256
34. Siengsukon, C., Nelson, E., Williams-Cooke, C., Ludwig, R., Beck, E., Vidoni, E., Mahnken, J., Stevens, S., Drerup, M., **Bruce, J.M.**, Burns, J. (2020). *Contemp Clin Trials*, 99: 106190.
35. Echemendia, R., Thelen, J.\*, Meeuwisse, W., Hutchison, M., Comper, P., **Bruce, J** (2020). Testing the hybrid battery approach to evaluating sports-related concussion in the National Hockey League: A factor analytic study. *The Clinical Neuropsychologist*, 34 (5), 899-918.
36. Ha, O., Killian, H., Davis, A., Lim, S., **Bruce, J.M.**, Sotos, J., Nelson, S., Bruce, A. (2020). Promoting resilience to food commercials decreases susceptibility to unhealthy food decision-making. *Front Psychol*, 11: 599663.

37. Lepping, R., **Bruce, J.**, Gustafson, K., Hu, J., Martin, L., Savage, C., Atchley, R. (2019). Preferential activation for emotional western classical music versus emotional environmental sounds in motor, interoceptive, and language brain areas. *Brain and Cognition*. 136, PMID: 31404816.
38. Jarmolowicz, D., Reed, D., Schneider, T., Smith, J.\*, Thelen, J.\*, Lynch, S., Bruce, A., Bruce, J. (2019). Behavioral economic demand for medications and its relation to clinical measures in multiple sclerosis. *Experimental and Clinical Psychopharmacology*, Advanced Online Publication, doi: 10.1037.
39. Jarmolowicz, D., Reed, D., Bruce, A., **Bruce, J.** (2019). On the behavioral economics of medication choice: a research story. *Behavioral Processes*, 16, 66-77.
40. Ha, O.H., Lim, S.L., **Bruce, J.M.**, & Bruce, A.S. (2019). Unhealthy foods taste better among children with lower self-control. *Appetite*, 139, 84-9.
41. Schoor, R\*, Bruce, A., **Bruce, J.**, Goggin, K., Schanfarber, B., Bradley-Ewing, A., Thelen, J.\*, Lynch, S., Strober, L.\*, Catley, D. (2019). Reasons for non-adherence and response to treatment in an adherence intervention trial for Relapsing-Remitting Multiple Sclerosis patients. *Journal of Clinical Psychology*, 75(3), 380-91.
42. Glusman, M.\*, Bruce, A., Smith, J., Thelen, J.\*, Lynch, S., Catley, D., Bennett, K., **Bruce, J.** (2019). Discontinuing treatment against medical advice: The role of perceived autonomy support from providers in relapsing-remitting multiple sclerosis. *Annals of Behavioral Medicine*, 53(3), 283-289.
43. Clausen, A. \*, Thelen, J.\*, Francisco, A.\*, **Bruce, J.**, Martin, L., McDowd, J., Aupperle, R. (2019). Computer-based executive function training for combat veterans with PTSD: A pilot clinical trial assessing feasibility and predictors of drop out. *Frontiers in Psychiatry: Mood and Anxiety Disorders*, 10 (62), eCollection.
44. **Bruce, J.M.**, Bruce, A.S., Lynch, S., Thelen, J.\*, Lim, S.L., Smith, J.\*, Catley, D., Reed, D., Jarmolowicz, D. (2018). Probability discounting of treatment decisions in multiple sclerosis: Associations with disease knowledge, neuropsychiatric status, and adherence. *Psychopharmacology*, 235(11), 3303-3313.
45. Jarmolowicz, D., Reed, D., Bruce, A., Lynch, S., Smith, J.\*, **Bruce, J.M.** (2018). Modeling effects of side effect probability, side effect severity, and medication efficacy on patients' with multiple sclerosis medication choice. *Experimental and Clinical Psychopharmacology*, 26(6), 599-607.
46. Echemendia, R., **Bruce, J.M.**, Glusman, M.\* (2018). Professional Sports Neuropsychology. In *Neuropsychology of Sports-Related Concussion*. Editor: P. Arnett. American Psychological Association, Washington, D.C.
47. Jarmolowicz, D., Reed, D., Francisco, A.\*, **Bruce, J.**, Bruce, A. (2018). Modeling effects of risk and social distance on vaccination choice. *Journal of the Experimental Analysis of Behavior*, 110(1), 39-53.

48. Echemendia, R., **Bruce, J.M.\***, Meeuwisse, W., Hutchinson, M., Comper, P., Aubry, M. (2018). Can visible signs predict concussion diagnosis in the National Hockey League? *British Journal of Sports Medicine*, 52(17), 1149-1154.
49. **Bruce, J.M.**, Echemendia, R.J., Meeuwisse, W., Hutchison, M., Aubry, M., Comper, P. et al. (2018). Development of a risk prediction model among professional hockey players with visible signs of concussion. *British Journal of Sports Medicine*, 52(17), 1143-1148.
50. Lim S.L., Penrod, M., Ha, O, **Bruce, J.**, Bruce, A. (2018). Calorie labeling promotes dietary self-control by shifting the temporal dynamics of health and taste attribute integration in overweight individuals. *Psychological Science*, 29(3), 447-462.
51. Smith, J\*, Bruce, A., Glusman, M., Thelen, J.\* , Lynch, S., **Bruce, JM** (2018). Determining reliable change on the modified fatigue impact scale (5 – item version). *Multiple Sclerosis and Related Disorders*, 20, 22-24.
52. Ha, O., Killian, H.\* , **Bruce, J.**, Lim S.L., Bruce, A. (2018). Food Advertising Literacy Training Reduces the Importance of Taste in Children’s Food Decision Making: A Pilot Study. *Frontiers in Psychology: Eating Behavior*, 9, 1293.
53. Abidi, M.\* , **Bruce, J.M.**, Le Blanche, A., Bruce, A., Jarmolowicz, D., Csillik, A., Thai, J., Lim, S., Heinzlef, O., de Marco, G. (2018). Neural mechanisms associated with treatment decision making: an fMRI study. *Behavioral Brain Research*, 349, 54-62.
54. Thelen, J. \*, Bruce, A., Catley, D., Lynch, S., Goggin, K., Bradley-Ewing, A., Glusman, M., Norouzinia, A., Strober, L., & **Bruce, J.** (2018). Baseline predictors of DMT reinitiation among patients with multiple sclerosis following an MI-CBT intervention. *Journal of Behavioral Medicine*, 41(2), 253-260. <http://dx.doi.org/10.1007/s10865-017-9900-9>
55. Siengsukon, C., Aldughmi, M.\* , Kahya, M., Lynch, S., **Bruce, J.M.**, Glusman, M.\* , Ness, A.\* , Billinger, S. (2018). Individuals with mild MS with poor sleep quality have impaired visuospatial memory and lower perceived functional abilities. *Disability and Health Journal*, 11(1), 116-121.
56. **Bruce, J.M.**, Jarmolowicz, D.P., Lynch, S., Thelen, J.\* , Lim. S.L., Smith, J.\* , Catley, D., Bruce, A. (2018). How patients with multiple sclerosis weigh treatment risks and benefits. *Health Psychology*, 37 (7), 680-690.
57. Jarmolowicz, D., Bruce, A., Glusman, M.\* , Lim, S.L., Lynch, S., Thelen, J.\* , Catley, D., Zieber, N., Reed, D., **Bruce, J.M.** (2017). On how patients with multiple sclerosis weigh side effect severity and treatment efficacy when making treatment decisions. *Experimental and Clinical Psychopharmacology*, 25 (6), 479-484.
58. **Bruce, J.M.**, Echemendia, R.J. et al. (2017). Measuring cognitive change with ImPACT: the aggregate baseline approach. *The Clinical Neuropsychologist*, 31(8), 1329-1340.

59. Al-Dughmi, M. \*, **Bruce, J.M.**, Siengasukon, C. (2017). The relationship between fatigability and perceived fatigue measured using the Neurological Fatigue Index in people with MS. *International Journal of MS Care*. 19(5), 232-239.
60. Clausen, A. \*, Francisco, A. \*, Thelen, J. \*, **Bruce, J.**, Martin, L., McDowd, J., Simmons, K., Aupperle, R. (2017). Posttraumatic stress disorder and cognitive symptoms relate to prefrontal activation and functional connectivity. *Depression and Anxiety*, 34(5), 427-436.
61. Fox, A., Martin, L., **Bruce, J.M.**, Moreno, J., Staggs, V., Lee, H., Goggin, K., Harris, H., Richter, K., Patten, C., Catley, D. (2017). Executive function fails to predict smoking outcomes in a clinical trial to motivate smokers to quit. *Drug and Alcohol Dependence*, 175, 227-231.
62. Csillik, A, **Bruce, J.M.**, Catley, D., Gay, M.C., Goggin, K., Swaggart, K., Thomas, P.W., Thomas, S. (2016). Psychological interventions for enhancing adherence to disease-modifying therapies (DMTs) in multiple sclerosis (protocol). *Cochrane Database of Systematic Reviews*, Issue 11, Art. No.: CD012443.
63. Siengasukon, C., Aldughmi, M. \*, Kahya, M., **Bruce, J.M.**, Lynch, S., Ness, A., Glusman, M., Billinger, S. (2016). Randomized controlled trial of exercise interventions to improve sleep quality and daytime sleepiness in individuals with multiple sclerosis: a pilot study. *Multiple Sclerosis Journal: Experimental, Translational and Clinical*. 2:2055217316680639. doi: 10.1177/2055217316680639. eCollection 2016 Jan-Dec. PMID: 28607746
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65. Bruce, A., Pruitt, S., Ha, O., Cherry, J., Smith\*, T., **Bruce, J.**, Lim, S. (2016). The influence of televised food commercials on children's food choices: evidence from ventromedial prefrontal cortex activations. *Journal of Pediatrics*, 177, 27-32.
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69. **Bruce, J.**, Bruce, A., Catley, D., Lynch, S., Goggin, K., Reed, D., Lim, S.L., Strober, L., Glusman, M. \*, Ness, A. \*, Jarmolowicz, D. (2016). Being kind to your future self: Probability discounting of health decision making. *Annals of Behavioral Medicine*, 50(2), 297-309.

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71. Westervelt, H.J., **Bruce, J.M.**, Faust, M.\* (2016). Distinguishing Alzheimer's Disease and Dementia with Lewy Bodies Using Cognitive and Olfactory Measures. *Neuropsychology*. 30(3), 304-311.
72. Carvalho, J.O., Long, J.D., Westervelt, H.J., Smith, M.M., **Bruce, J.M.**, Kim, J., Mills, J.A., Paulsen, J.S. and the PREDICT-HD Investigators of the Huntington Study Group. (2016). The impact of oculomotor functioning on neuropsychological performance in Huntington's Disease. *Journal of Clinical and Experimental Neuropsychology*, 38(2), 217-26.
73. Roberg, B.\* & **Bruce, J.M.** (2016). Reconsidering outdoor temperature and cognition in multiple sclerosis. *Multiple Sclerosis Journal*. 22(5), 694-7.
74. **Bruce, J.**, Bruce, A., Lynch, S., Strober, L., O'Bryan, S., Sobotka, D., Thelen, J.\*, Ness, A.\*, Glusman, M\*, Goggin, K., Bradley-Ewing, A., Catley, D. (2016). A pilot study to improve adherence among MS patients who discontinue treatment against medical advice. *Journal of Behavioral Medicine*, 39(2), 276-87.
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76. Bruce, A., Lim, Seung-Lark, Smith, T., Cherry, J., Black, W., Davis, A., **Bruce, J.** (2015). Apples or candy? Internal and external influences on children's food choices. *Appetite*. 93, 31-4.
77. Heesen, C., **Bruce, J.**, Gearing, R., Moss-Morris, R., Weinmann, J., Hamalainen, P., Motl, R., Dalgas, U., Kos, D., Visioli, P., Feys, P., Solari, A., Finlayson, M., Eliasson, L., Matthews, V., Liethmann, K., Kopke, S., Bissell, P. (2015). Adherence to behavioural interventions in multiple sclerosis: follow-up meeting report (AD@MS-2). *Multiple Sclerosis Journal: Experimental, Translational, and Clinical*, 1, 1-4.
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106. Hancock, L.\*, **Bruce, J.M.**, Lynch, S.G. (2011). Exacerbation history is associated with medication and appointment adherence in MS. *Journal of Behavioral Medicine*, 34(5), 330-338.
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109. **Bruce, J.M.** & Lynch, S. (2011). Personality traits in multiple sclerosis: association with mood and anxiety disorders. *Journal of Psychosomatic Research*, 70(5), 479-485.
110. Bruce, A.S., Black, W.R., **Bruce, J.M.**, Daldalian, M., Martin, L.E., Connolly, M., & Davis, A.M. (2011). Ability to delay gratification and body mass index in preadolescence. *Obesity*, 19(5), 1101-1102.
111. **Bruce, J.M.**, Hancock, L.\*, Arnett, P., Lynch, S. (2010). Treatment adherence in Multiple Sclerosis: Association with emotional status, personality, and cognition. *Journal of Behavioral Medicine*, 33, 219-227.
112. **Bruce, J.M.**, Bruce, A., Hancock, L.\*, Lynch, S. (2010). Self-reported memory problems in Multiple Sclerosis: Influence of psychiatric status and normative dissociative experiences. *Archives of Clinical Neuropsychology*, 25(1), 39-48.
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116. **Bruce, J.M.**, Harrington, C., Westervelt, H., Foster, S.\* (2009). Common blood laboratory values are associated with cognition among older inpatients referred for neuropsychological testing. *The Clinical Neuropsychologist*, *23*, 909-925.
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122. Williams, V.G., **Bruce, J.M.**, Westervelt, H.J., Davis, J.D., Grace, J., Malloy, P.H., & Tremont, G. (2007). Boston Naming Performance Distinguishes between Lewy Body and Alzheimer's Dementias. *Archives of Clinical Neuropsychology*, *22*(8), 925-31.
123. Bruce, A., Ray, W., **Bruce, J.**, Arnett, P., and Carlson, R. (2007). The relationship between executive functioning and dissociation. *Journal of Clinical and Experimental Neuropsychology*, *29* (6), 626-633.
124. **Bruce, J.M.**, Bruce, A.S., & Arnett, P.A. (2007). Mild visual acuity disturbances are associated with performance on tests of complex visual attention in MS. *Journal of the International Neuropsychological Society*, *13*, 544-548.
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127. Benedict, R., **Bruce, J.**, Dwyer, M., Abdelrahman, N., Hussein, R. and Zivadinov, R. (2006). Neocortical atrophy, third ventricular width, and cognitive dysfunction in multiple sclerosis. *Archives of Neurology*, *63*, 1301-1306.

128. **Bruce, J.M.** & Arnett, P.A. (2005). MS patients with depressive symptoms exhibit affective memory biases when verbal encoding strategies are suppressed. *Journal of the International Neuropsychological Society*, *11*, 514-521.
129. **Bruce, J.M.**, & Echemendia, R.J. (2004). Concussion history predicts self-reported symptoms prior to and following a concussive event. *Neurology*, *63*, 1516-1518.
130. **Bruce, J.** & Arnett, P. (2004). Self-reported everyday memory and depression in patients with multiple sclerosis. *Journal of Clinical and Experimental Neuropsychology*, *26* (2), 200-214.
131. **Bruce, J.** & Echemendia, R.J. (2003). Delayed-onset deficits in verbal encoding strategies among patients with mild traumatic brain injury. *Neuropsychology*, *17*(4), 622-629.

## **RESEARCH SUPPORT**

### **Ongoing Research Support and Contracts**

Jackson County  
1/1/23-9/31/24

Bruce, J. (PI)

Develop and test the feasibility, acceptability, and preliminary efficacy of a treatment that combines contingency management, continuous glucose monitoring and motivational interviewing for an underserved patient population with poor diabetes control.

Role: PI (5% effort)

Recommended for funding: \$90,000

RG-1907-34376

National Multiple Sclerosis Society  
10/1/20-9/30/24

Bruce, J. (PI)

Telehealth healthy lifestyle intervention for patients with MS

This randomized clinical trial examines the efficacy of an exercise/weight loss program and its impact on symptom expression in multiple sclerosis.

Role: PI (20% effort)

Recommended for funding: \$756,058

National Hockey League  
3/1/19-ongoing

Bruce, J. (PI)

Concussion management in professional hockey (Contract).

This contract buys time to help with program management and program evaluation as part of the National Hockey League Concussion Program.

35% Effort

R01 AG058530-01A1  
02/01/19-11/30/23

Siengsukon, K (PI)

Primary Prevention of Alzheimer's Disease: Examining the Effects of Cognitive Behavioral Therapy on Cognitive Function and the Amyloid- $\beta$  in Older Adults with Symptoms of Insomnia  
\$2,967,004

Purpose: This randomized controlled trial examines whether cognitive behavioral therapy for sleep and improve cognition and influence Alzheimer's risk.

Role: Consultant

Funded: \$2,500,000

### **Completed Research Support**

Jackson County COVID Grant

Bruce, J. (PI)

6/1/21-3/1/22

Understanding the cognitive, emotional and olfactory effects of long-haul COVID among underserved populations in Kansas City: reducing barriers to comprehensive care.

This cross-sectional study seeks to identify patterns and risks for persisting cognitive, emotional, and olfactory effects of COVID. We also seek to obtain quantitative and qualitative feedback to identify neurobehavioral treatment needs and barriers.

Role: PI (8% effort)

Recommended for funding: \$56,314

EyeGuide (contract)

Bruce, (PI)

4/1/21-6/1/21

Examine the reliability and validity of FOCUS for use in sports concussion evaluation.

8% Effort

RG-1901-33239

National Multiple Sclerosis Society

Bruce, J. (PI)

10/1/19-9/30/20

Development of a telehealth obesity intervention for patients with MS.

This feasibility and pilot work will be used to develop a telehealth intervention tailored to help overweight patients with MS lose weight.

Role: PI (20% Effort)

Funded: \$203,382

Med-IQ

Nelson, E (PI)

12/1/18-12/1/19

Navigating Complex Treatment Decisions in MS: a Look at Patient and Provider Priorities

Purpose: This is a grant to develop an educational program for MS neurologists and other treatment providers.

Role: Consultant

Funded: \$214,709

NIH COBRE Pilot

Kirpatrick, K (PI)

12/1/19-11/30/20

Neural plasticity from exercise in teens.

Purpose: This study examines how exercise changes the functional activity in brains of adolescents.

Role: Co-I (2%)

Funded: \$30,000

Genzyme

Strober (PI)

3/1/19-2/28/21

A Comprehensive Model of Adherence in Multiple Sclerosis.

Role: Co-I (5%)

Funded: \$178,000

National Multiple Sclerosis Society

Gold, S (PI)

07/1/16-6/30/20

Online program to reduce depression in MS – a phase III international multicenter randomized controlled trial.

The purpose of this study is to determine the effectiveness of an online program for the treatment of depression in multiple sclerosis.

Role: Co-I (8% effort)

Funded: \$1,487,413.00

National Multipole Sclerosis Society

Lynch (PI)

PP-1709-29162

5/1/18-4/30/19

MS Disability Scales in the Aging Population.

Role: Co-I (5% effort)

Funded: \$40,000

National Multiple Sclerosis Society

Strober, L (PI)

10/1/14-9/30/18

Standardization and Normative Data of the Symbol Digit Modalities Test-Oral Version.

The purpose of this grant is to develop a large normative dataset for the SDMT, a commonly used screen of cognition in MS.

Role: Co-I (8% effort)

Funded: \$300,000

National Multiple Sclerosis Society

Bruce, J (PI)

HC-1411-01993

10/1/15-12/30/17

Development of a treatment decision model in MS.

The purpose of this grant is to use behavioral economics to better understand how patients weigh risks and benefits when making treatment decisions.

Role: PI (50% effort)

Funded: \$315,341

UMKC School of Graduate Studies Research Grant

Roberg, B (PI)

4/10/14-4/9/15

Theory of mind in Multiple Sclerosis: Disease subtype differences and associations with social functioning.

Role: Mentor

Funded: \$7,500

UMKC School of Graduate Studies Research Grant

Glusman, M (PI)

4/10/14-4/9/15

Association between neuropsychiatric functioning and adherence in MS

Role: Mentor  
Funded: \$7,500

Frontiers Trailblazer Award  
3/2/14-3/1/15

Bruce, AS (PI)

Neuroimaging genetic predictors of bariatric surgery success

The goal of this project is to sequence two single nucleotide polymorphisms (SNPs) to examine the relationship between genetics and functional magnetic resonance imaging (fMRI) data.

Role: Co-I (donated)

Funded: \$5,000

National Multiple Sclerosis Society  
PP 2068

Katie Siengsukon (PI)

10/1/13-9/30/14

The effects of aerobic exercise on cognitive function and sleep quality in individuals with MS.

Role: Co-I (5% effort)

Funded: \$30,000

National Multiple Sclerosis Society  
HC 0138

Jared Bruce (PI)

11/1/12-10/31/15

Development of a motivational intervention to improve treatment adherence in MS.

Role: PI (20% effort)

Funded: \$292,470

Frontiers Pilot and Collaborative Studies Funding Program  
2/13/13 – 2/12/14

Katie Siengsukon (PI)

5 UL1TR00001-03

The effects of aerobic exercise on daytime sleepiness and speed of information processing in individuals with multiple sclerosis.

Role: Co-I (5% effort)

Funded: \$30,000

University of Missouri Research Board.  
Cognitive training in PTSD.

Robin Aupperle (PI) 7/1/12 – 7/1/13

Role: Co-I (3% effort)

Funded: \$40,000

Frontiers Pilot and Collaborative Studies Funding Program  
5 UL1TR00001-03

Jared Bruce (PI)

9/15/12–2/28/13

Improving Medication Adherence in Multiple Sclerosis.

Role: PI (12% effort)

Funded: \$30,000

KU School of Allied Health Pilot Grant  
5/1/11-5/1/12

Siengsukon (PI)

Sleep to Learn: Examining the Role of Sleep in Learning and Memory Consolidation in Multiple Sclerosis.

Role: Co-I (5% effort donated time)

Funded: \$10,000

Frontiers Pilot and Collaborative Studies Funding Program

Amanda Bruce (PI)

9/15/11–2/28/12

Food For thought: can stomach surgery change the brain?

Role: Co-I (12% effort)

Funded: \$30,000

Frontiers Pilot and Collaborative Studies Funding Program

Robin Aupperle (PI) 9/15/11–

2/28/12

Pilot study investigating effects of cognitive training for PTSD.

Role: Co-I (3% effort donated time)

Funded: \$30,000

National Multiple Sclerosis Society Pilot Grant (PP1506)

Jared Bruce (PI)

01/01/2008-01/01/09

The Association Between Neuropsychiatric Symptoms and Treatment Adherence in MS

Role: PI (15% effort)

Funded: \$40,000

Cephalon, Inc.

Jared Bruce (PI)

01/01/09- 03/01/11

The Impact of Armodafinil on Neurocognition and Cognitive Fatigue in Multiple Sclerosis: a Double Blind Randomized Crossover Study.

Role: PI (25% effort)

Funded: \$47,353

University of Missouri Research Board

Jared Bruce (PI)

09/01/09-05/31/11

The Association between Brain Function and Weight Loss Surgery.

fMRI Examination of reward systems in the brain that change as a result of bariatric surgery.

Role: PI (16% effort)

Funded: \$45,745

### **INVITED PRESENTATIONS (last 5 years)**

**Bruce, J.** (2024, April). Amsterdam Consensus and Tools Review. Current Concepts in Concussion Management Conference. University of Kansas Medical Center.

**Bruce, J.** (2024, February). Concussion in Sport Group 2022 Amsterdam Consensus. Sports Concussion: Facts, Fallacies and New Frontiers Seminars. Brain Injury Association of Missouri. Saint Louis.

**Bruce, J.** (2024, February). Managing Emotions in Sports-related Concussion. Sports Concussion: Facts, Fallacies and New Frontiers Seminars. Brain Injury Association of Missouri. Saint Louis.

**Bruce, J.** (2024, February). Concussion in Sport Group 2022 Amsterdam Consensus. Sports Concussion: Facts, Fallacies and New Frontiers Seminars. Brain Injury Association of Missouri. Columbia, MO.

**Bruce, J.** (2024, February). Managing Emotions in Sports-related Concussion. Sports Concussion: Facts, Fallacies and New Frontiers Seminars. Brain Injury Association of Missouri. Columbia, MO.

**Bruce, J.** (2023, May). Neuropsychological assessment of cognition in the post-acute period. Invited presentation. Head Injury Summit II. Chicago, USA.

**Bruce, J.** (2023, January). Neurocognitive disorders. Invited Presentation. University Health Psychiatry Didactics. Kansas City.

**Bruce, J.** (2022, October). Does the SCAT5 10-word list improve the distribution of scores over the SCAT3 5-word list in professional hockey players? Invited presentation. 6<sup>th</sup> meeting of the Concussion in Sports Group. Amsterdam.

**Bruce, J.** (2022, March). Identification and diagnosis of concussion in professional hockey. Invited Presentation. Nexus Informatics Conference. Kansas City.

**Bruce, J.** (2022, December). Neurocognitive disorders. Invited Presentation. University Health Psychology Didactics. Kansas City.

**Bruce, J.** (2021, November). Use of the NHL SCAT-5 in professional hockey – reliability and validity. Invited Presentation. International Collision in Sport Group.

**Bruce, J.** (2021, September). Identification and Assessment of Sports Concussion. Invited Presentation. UMKC Neurology Grand Rounds.

**Bruce, J.** (2021, September). Improving Health Behaviors in Multiple Sclerosis. Invited Presentation. UMKC Psychiatry Grand Rounds.

**Bruce, J.** (2021, May). Identification and Assessment of Sports Concussion. Invited Presentation. UMKC Sports Medicine Resident Didactics.

**Bruce, J.** (2020, November). Managing Emotions in Sports Concussion. Invited Presentation, UMKC Health Sciences Deans' Seminar Series.

**Bruce, J.** (2020, August). Managing Emotions in Sports Concussion. Invited Presentation, the University of Kansas Concussion Management Conference.

## **EDITORIAL WORK**

2014-current – Editorial Board, Journal of Clinical and Experimental Neuropsychology

2011-2015 – Associate Editor, Archives of Clinical Neuropsychology

2012 - Guest Editor. Abstracts from the 32<sup>nd</sup> Annual Meeting of the National Academy of Neuropsychology, Nashville, Tennessee. Archives of Clinical Neuropsychology, 27 (6).

2009-2011 Editorial Board, Archives of Clinical Neuropsychology

## **CLINICAL EXPERIENCE**

2008 – Present Licensed Clinical Psychologist, Missouri

2011- Present Licensed Clinical Psychologist, Kansas

2006 – 2007 Licensed Clinical Psychologist, Rhode Island

### Neuropsychology Clinic, Department of Neurology, University Health

2020-

Outpatient adult neuropsychology service.

### Consulting Neuropsychologist, Inpatient Psychiatry Unit, University Health

2014-

Provide clinical supervision and conduct brief inpatient neuropsychological evaluations of patients admitted to inpatient psychiatry.

### Team Clinical Neuropsychologist, Sporting - Kansas City

2011-

Conduct baseline and post-injury concussion evaluations on professional soccer players as part of the Major League Soccer Concussion Management Program.

### Department of Psychiatry and Human Behavior, Brown Medical School

2005 – 2007

Neuropsychology postdoctoral fellow: Administration, interpretation, and feedback as part of comprehensive neuropsychological evaluation in outpatient and inpatient settings. Assessing and treating a wide variety of patients with neurological, medical, and psychiatric illness. Member of the degenerative dementia and surgical epilepsy multidisciplinary treatment teams.

### Department of Psychology, VA Western New York Healthcare System

2004 – 2005

Clinical psychology intern with a specialty in clinical neuropsychology. Rotations in neuropsychology, geropsychology, and behavioral medicine. Inpatient and outpatient assessment and psychotherapeutic treatment of patients with medical and mental illness.

### Psychological Consulting Service, The Pennsylvania State University

2003 – 2004

Utilized scientifically-based psychological techniques to help individual consumers, families, care givers, residential/direct care staff, case management staff, and agency administration cope with a broad range of psychological and cognitive problems.

The Psychological Clinic, The Pennsylvania State University

1999 – 2004

Psychotherapist at a major provider in Central Pennsylvania, treating a wide range of Axis I and Axis II disorders. Neuropsychological assessments, psychiatric intakes, psychotherapy, and consulting.

**TEACHING EXPERIENCE**

University of Missouri – Kansas City:

Biopsychology (PSY 418)  
Cognitive Assessment (PSY 509)  
General Psychology (PSY 210)  
Psychotherapy Practicum (PSY 565)  
Advanced Biopsychology (Psych 518)  
Psychiatry Resident Research Didactics  
Psychiatry Resident Journal Club

Rhode Island College:

Introduction to Psychology (PSY 001)

**HONORS AND AWARDS**

National/International

2014 – American Psychological Association Society for Clinical Neuropsychology (Div. 40) Robert A. and Phyllis Levitt Early Career Award in Neuropsychology

2014 – Fellow, National Academy of Neuropsychology

2018 – Fellow, Sports Neuropsychology Society

2018 – National MS Society Hall of Fame in recognition of service to the MS Community

University of Missouri – Kansas City

2012 – Chancellor’s Early Career Award for Excellence in Teaching

2011 – Psi Chi Psychology Students Teaching Award

2010 – Trustees Faculty Scholar Award – College of Arts and Sciences Early Career Research Award

The Pennsylvania State University

Trumbo Travel Award

American Medical Society for Sports Medicine Outstanding Research Award

The University of Maine

Organic Chemistry Award

Outstanding Senior in Psychology Award

Outstanding Senior in Biology Nominee

Outstanding student in the College of Arts and Sciences Nominee

Abby Sargent Neese Kelly Creative Writing Award

Holmes Scholar

Margaret Chase Smith Scholar

Department of Veteran Affairs Scholar

Maine Days Scholar