

CURRICULUM VITAE

University of Idaho

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DATE: January 2025

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DATE OF FIRST EMPLOYMENT AT UI: August 15, 2022

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EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D., 2019, Kinesiology & Applied Physiology, Rutgers University, New Brunswick, NJ

B.S., 2014, Exercise Science & Sport Studies, Rutgers University, New Brunswick, NJ

EXPERIENCE:

Teaching, Extension and Research Appointments:

Assistant Professor, University of Idaho, Moscow, ID	2022-Present
Director, Psychophysiology of Active Lifestyles Laboratory, University of Idaho, Moscow, ID	2022-Present
Postdoctoral Scholar, Florida State University, Tallahassee, FL	2019-2022
Course Instructor, Florida State University, Tallahassee, FL	2019-2021
Teaching Assistant, Rutgers University, New Brunswick, NJ	2014-2019
Research Assistant, Rutgers University, New Brunswick, NJ	2014-2019

SCHOLARSHIP ACCOMPLISHMENTS:

Publications:

Refereed/Adjudicated:

Book Chapters (n=3)

1. **Brush, C. J.**, & Burani, K. (2021). Exercise and physical activity for depression. In Z. Zenko & L. Jones (Eds.), *Essentials of exercise and sport psychology: An open access textbook* (pp. 338-368). Society for Transparency, Openness, and Replication in Kinesiology.
2. Alderman, B. L., **Brush, C. J.**, & Bocchine, A. J. (2020). Depression treatment by exercise and physical activity. In D. Hackfort & R. J. Schinke (Eds.), *The Routledge international encyclopedia of sport and exercise psychology: Applied and practical measures (Volume 2)* (pp. 239-253). Routledge.
3. Alderman, B. L., **Brush, C. J.**, & Ehmann, P. J. (2019). Effects of exercise on anxiety and stress-sensitive psychopathology. In M. H. Anshel, S. J. Petruzzello, & E. E. Labbe (Eds.), *APA handbook of sport and exercise psychology: Volume 2* (pp. 345-361). American Psychological Association.

Peer Reviewed/Evaluated:Journals (n=52)

1. Egan, C. A., Orendorff, K., Merica, C. B., & **Brush, C. J.** (in press). Movement, my favourite thing: Children's perceptions of movement integration in school. *Curriculum Studies in Health and Physical Education*.
2. Kallen, A. M., **Brush, C. J.**, Santopetro, N. J., Patrick, C. J., & Hajcak, G. (in press). The go/no-go P3 and depressive symptoms in adolescents: Trial-level change and mean amplitude relate differently to anhedonic versus negative mood symptoms. *Research on Child and Adolescent Psychopathology*.
3. Burani, K., **Brush, C. J.**, Eckel, L. A., & Hajcak, G. (2024). Acute stress-induced reductions in neural response to reward are related to acute stress-related increases in cortisol. *Psychophysiology*, *61*(12), e14683.
4. **Brush, C. J.**, Keith, L. R., Santopetro, N. J., Burani, K., & Hajcak, G. (2024). Associations between physical activity, sedentary time, and neurocognitive function during adolescence: Evidence from accelerometry and the flanker P300. *Progress in Brain Research*, *286*, 151-186.
5. Dluzniewski, A., Casanova, M. P., Ullrich-French, S., **Brush, C. J.**, Larkins, L. W., & Baker, R. T. (2024). Psychological readiness for injury recovery: Evaluating psychometric properties of the IPRRS and assessing group differences in injured physically active individuals. *BMJ Open Sport & Exercise Medicine*, *10*, e001869.
6. Aguiar Bonfim Cruz, A. J., Brooks, S. J., Kleinkopf, K., **Brush, C. J.**, Irwin, G. L., Schwartz, M. G., Candow, D. G., & Brown, A. F. (2024). Creatine improves total sleep duration following resistance training days versus non-resistance training days among naturally menstruating females. *Nutrients*, *16*(16), 2772.
7. Thompson, B., Meynadasy, M., Hajcak, G., & **Brush, C. J.** (2024). Accelerometer-based and self-reported physical activity and sedentary time and their relationships with the P300 in a go/no-go task in older adults. *Brain and Cognition*, *178*, 106168.
8. Dell'Acqua, C., Messerotti Benvenuti, S., Cellini, **Brush, C. J.**, Ruggerone, A., & Palomba, D. (2024). Familial risk for depression is associated with reduced physical activity in young adults: Evidence from a wrist-worn actigraphy study. *Translational Psychiatry*, *14*(1), 219.
9. Kao, S. C., **Brush, C. J.**, & Wang, C. H. (2024). A multimodal approach integrating cognitive and motor demands into physical activity for optimal mental health: Methodological issues and future directions. *Progress in Brain Research*, *286*, 235-258.
10. Amir, N., Holbrook, A., Kallen, A., Santopetro, N., Klawohn, J., McGhie, S., Bruchnak, A., Lowe, M., Taboas, W., **Brush, C. J.**, & Hajcak, G. (2024). Multiple adaptive attention bias modification programs to alter normative increase in the error-related negativity in adolescents. *Clinical Psychological Science*, *12*(3), 447-467.
11. Thompson, B., Santopetro, N. J., **Brush, C. J.**, Foti, D., & Hajcak, G. (2023). Neural deficits in anticipatory and consummatory reward processing are uniquely associated with current depressive symptoms during adolescence. *Psychophysiology*, *60*(7), e14257.
12. Santopetro, N. J., **Brush, C. J.**, Mulligan, E. M., & Hajcak, G. (2023). Influences of age and pubertal development on P300 amplitude trajectory across two years in female adolescents. *Developmental Cognitive Neuroscience*, *60*, 101212.
13. Dell'Acqua, C., Hajcak, G., Amir, N., Santopetro, N. J., **Brush, C. J.**, & Meyer, A. (2023). Error-

related brain activity in pediatric major depressive disorder: An ERP and time-frequency investigation. *International Journal of Psychophysiology*, 184, 100-109.

14. Burani, K., **Brush, C. J.**, Spahr, C., Slavich, G. M., Meyer, A., & Hajcak, G. (2023). Corporal punishment is uniquely associated with a greater neural response to errors and blunted neural response to rewards in adolescence. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 8(2), 210-218.
15. Burani, K., **Brush, C. J.**, Shields, G. S., Klein, D. N., Nelson, B., Slavich, G. M., & Hajcak, G. (2023). Cumulative lifetime acute stressor exposure interacts with reward responsiveness to predict longitudinal increases in depression severity in adolescence. *Psychological Medicine*, 53(10), 4507-4516.
16. Bowyer, C. B., **Brush, C. J.**, Patrick, C. J., & Hajcak, G. (2023). Effort and appetitive responding in depression: Examining deficits in motivational and consummatory stages of reward processing using the effort-doors task. *Biological Psychiatry Global Open Science*, 3(4), 1073-1082.
17. Dell'Acqua, C., Hajcak, G., Amir, N., Santopetro, N. J., **Brush, C. J.**, & Meyer, A. (2023). Error-related brain activity: A time-domain and time-frequency investigation in pediatric obsessive compulsive disorder. *Psychophysiology*, 60(4), e14216.
18. **Brush, C. J.**, Kallen, A. M., Meynadasy, M. A., King, T., Hajcak, G., & Sheffler, J. L. (2022). The P300, loneliness, and depression in older adults. *Biological Psychology*, 171, 108339.
19. Santopetro, N. J., Mulligan, E. M., **Brush, C. J.**, & Hajcak, G. (2022). Reduced P300 amplitude is consistently associated with trait anhedonia across repeated assessments. *Psychophysiology*, 59(12), e14127.
20. Burani, K., **Brush, C. J.**, Shields, G. S., Klein, D. N., Nelson, B. D., Slavich, G. M., & Hajcak, G. (2022). Greater cumulative lifetime stressor exposure predicts blunted reward positivity in adolescent girls followed for 2 years. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 7(10), 1017-1024.
21. Klawohn, J., Joyner, K., Santopetro, N., **Brush, C. J.**, & Hajcak, G. (2022). Depression reduces neural correlates of reward salience with increasing effort over the course of the progressive ratio task. *Journal of Affective Disorders*, 307, 294-300.
22. Meynadasy, M. A., **Brush, C. J.**, Sheffler, J., Mach, R., Carr, D., Kiosses, D., Hajcak, G., & Sachs-Ericsson, N. (2022). Emotion regulation and the late positive potential (LPP) in older adults. *International Journal of Psychophysiology*, 177, 202-212.
23. Dell'Acqua, C., **Brush, C. J.**, Burani, K., Santopetro, N. J., Klawohn, J., Messerotti Benvenuti, S., & Hajcak, G. (2022). Reduced electrocortical responses to pleasant pictures in depression: A brief report on time-domain and time-frequency delta measures. *Biological Psychology*, 170, 108302.
24. **Brush, C. J.**, Hajcak, G., Bocchine, A. J., Ude, A. A., Muniz, K. M., Foti, D., & Alderman, B. L. (2022). A randomized trial of aerobic exercise for major depression: Examining neural indicators of reward and cognitive control as predictors and treatment targets. *Psychological Medicine*, 52(5), 893-903.
25. Jordan, C. D., Stewart, R. A., **Brush, C. J.**, Cogle, J. R., & Hajcak, G. (2022). Appearance concerns are uniquely associated with LPP amplitude to pictures of oneself. *Social Cognitive and Affective Neuroscience*, 17(4), 430-436.
26. Burani, K., **Brush, C. J.**, Gallyer, A., Joiner, T., Nelson, B., & Hajcak, G. (2021). Maternal suicidality interacts with blunted reward processing to prospectively predict increases in depressive symptoms in 8-to-14-year-old girls. *International Journal of Psychophysiology*, 170, 67-74.

27. Santopetro, N. J., **Brush, C. J.**, Burani, K., Bruchnak, A., & Hajcak, G. (2021). Doors P300 moderates the relationship between reward positivity and current depression status in adults. *Journal of Affective Disorders, 294*, 776-785.
28. Klawohn, J., **Brush, C. J.**, & Hajcak, G. (2021). Neural responses to reward and pleasant pictures prospectively predict remission from depression. *Journal of Abnormal Psychology, 130*(7), 702-712.
29. **Brush, C. J.**, Burani, K., Schmidt, K. M., Santopetro, N. J., & Hajcak, G. (2021). The impact of a single session of aerobic exercise on positive emotional reactivity in depression: Insight into individual differences from the late positive potential. *Behaviour Research and Therapy, 144*, 103914.
30. Foell, J., Klawohn, J., Bruchnak, A., **Brush, C. J.**, Patrick, C. J., & Hajcak, G. (2021). Ventral striatal activation during reward differs between major depression with and without impaired mood reactivity. *Psychiatry Research: Neuroimaging, 313*, 111298.
31. Clayson, P. E., **Brush, C. J.**, & Hajcak, G. (2021). Data quality and reliability metrics for event-related potentials (ERPs): The utility of subject-level reliability. *International Journal of Psychophysiology, 165*, 121-136.
32. Ehmann, P. J., **Brush, C. J.**, Bernard, L., Dowden, R., Ogilvie, A., Wisniewski, P. J., Piersol, K., McCarthy, T., & Merrill, G. F. (2021). Influences on blood pressure in university students. *Clinical Medical Reviews and Reports, 4*(1), 1-8.
33. Santopetro, N. J., **Brush, C. J.**, Bruchnak, A., Klawohn, J., & Hajcak, G. (2021). A reduced P300 prospectively predicts increased depressive severity in adults with clinical depression. *Psychophysiology, 58*(4), e13767.
34. Bowyer, C., **Brush, C. J.**, Threadgill, H., Harmon-Jones, E., Treadway, M., Patrick, C. J., & Hajcak, G. (2021). The effort-doors task: Examining the temporal dynamics of effort-based reward processing using ERPs. *NeuroImage, 228*, 117656.
35. **Brush, C. J.**, Olson, R. L., Bocchine, A. J., Selby, E. A., & Alderman, B. L. (2020). Acute aerobic exercise increases respiratory sinus arrhythmia reactivity and recovery to a sad film among individuals at risk for depression. *International Journal of Psychophysiology, 156*, 69-78.
36. **Brush, C. J.**, Foti, D., Bocchine, A. J., Muniz, K. M., Gooden, M. J., Spaeth, A. M., Miller, M. W., & Alderman, B. L. (2020). Aerobic exercise enhances positive emotional reactivity in individuals with depressive symptoms: Evidence from neural responses to reward and emotional content. *Mental Health and Physical Activity, 19*, 100339.
37. **Brush, C. J.**, Bocchine, A. J., Olson, R. L., Ude, A. A., Dhillon, S. K., & Alderman, B. L. (2020). Does aerobic fitness moderate age-related cognitive slowing? Evidence from the P3 and lateralized readiness potentials. *International Journal of Psychophysiology, 155*, 63-71.
38. Lesnewich, L. M., Conway, F. M., Buckman, J. F., **Brush, C. J.**, Ehmann, P. J., Eddie, D., Olson, R. L., Alderman, B. L., & Bates, M. E. (2019). Associations of depression severity with heart rate and heart rate variability in young adults across normative and clinical populations. *International Journal of Psychophysiology, 142*, 57-65.
39. Ehmann, P. J., **Brush, C. J.**, Bozzini, B., Dowden, R. A., Ogilvie, A., Wisniewski, P. J., Bernard, L. P., & Merrill, G. F. (2019). The effects of salt and water loading on kidney function in healthy undergraduates. *Advances in Applied Physiology, 4*(2), 11-18.
40. **Brush, C. J.**, Olson, R. L., Ehmann, P. J., Bocchine, A. J., Bates, M. E., Buckman, J. F., Leyro, T. M., & Alderman, B. L. (2019). Lower resting cardiac autonomic balance in young adults with major depression. *Psychophysiology, 56*(8), e13385.

41. Alderman, B. L., Olson, R. L., & **Brush, C. J.** (2019). Using event-related potentials to study the effects of chronic exercise on cognitive function. *International Journal of Sport and Exercise Psychology*, 17(2), 106-116.
42. **Brush, C. J.**, Ehmann, P. J., Hajcak, G., Selby, E. A., & Alderman, B. L. (2018). Using multilevel modeling to examine blunted neural responses to reward in major depression. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 3(12), 1032-1039.
43. Olson, R. L., **Brush, C. J.**, Ehmann, P. J., Buckman, J. F., & Alderman, B. L. (2018). A history of sport-related concussion is associated with sustained deficits in conflict and error monitoring. *International Journal of Psychophysiology*, 132(Part A), 145-154.
44. **Brush, C. J.**, Ehmann, P. J., Olson, R. L., Bixby, W. R., & Alderman, B. L. (2018). Do sport-related concussions result in long-term cognitive impairment? A review of event-related potential research. *International Journal of Psychophysiology*, 132(Part A), 124-132.
45. Olson, R. L., **Brush, C. J.**, Ehmann, P. J., & Alderman, B. L. (2017). A randomized trial of aerobic exercise on cognitive control in major depression. *Clinical Neurophysiology*, 128(6), 903-913.
46. Merrill, G. F., **Brush, C. J.**, Ehmann, P. J., & Bernard, L. P. (2017). Acetaminophen and frog skeletal muscle. *Trends in Cell & Molecular Biology*, 12, 67-76.
47. Ehmann, P. J., **Brush, C. J.**, Olson, R. L., Bhatt, S. N., Banu, A. H., & Alderman, B. L. (2016). Active workstations do not impair executive function in young and middle-age adults. *Medicine and Science in Sports and Exercise*, 49(5), 965-974.
48. **Brush, C. J.**, Olson, R. L., Ehmann, P. J., Osovsky, S., & Alderman, B. L. (2016). Dose-response and time course effects of acute resistance exercise on executive function. *Journal of Sport & Exercise Psychology*, 38, 396-408.
49. Olson, R. L., Chang, Y. K., **Brush, C. J.**, Kwok, A. N., Gordon, V. X., & Alderman, B. L. (2016). Neurophysiological and behavioral correlates of cognitive control during low and moderate intensity exercise. *NeuroImage*, 131, 171-180.
50. Alderman, B. L., Olson, R. L., **Brush, C. J.** & Shors, T. J. (2016). MAP training: Combining meditation and aerobic exercise reduces depression and rumination while enhancing synchronized brain activity. *Translational Psychiatry*, 6, e726.
51. Olson, R. L., **Brush, C. J.**, O'Sullivan, D. J., & Alderman, B. L. (2015). Psychophysiological and ergogenic effects of music in swimming. *Comparative Exercise Physiology*, 11(2), 79-87.
52. Alderman, B. L., Olson, R. L., Bates, M. E., Selby, E. A., Buckman, J. F., **Brush, C. J.**, Panza, E. A., Kranzler, A., Eddie, D., & Shors, T. J. (2015). Rumination in major depressive disorder is associated with impaired neural activation during conflict monitoring. *Frontiers in Human Neuroscience*, 9, 269.

Abstract Publications with Presentations (n=62)

1. **Brush, C. J.**, Burani, K., & Hajcak, G. (2024). Exploring the role of physical activity in the association between stress and anhedonia in adolescents. *Psychophysiology*, 61(S1), S202.
2. Knudson, K., & **Brush, C. J.** (2024). Reliability of the late positive potential elicited by the complex affective scene set. *Psychophysiology*, 61(S1), S118.
3. Kallen, A., **Brush, C. J.**, & Patrick, C. J. (2024). Associations between substance use severity and monetary gain-versus-loss ERPs: A trial-level analysis using MLM. *Psychophysiology*, 61(S1), S179.

4. Egan, C. A., Orendorff, K., Merica, C., & **Brush, C. J.** (2024). Movement, my favorite thing to do at school. *Research Quarterly for Exercise and Sport*, 95(S1), S17.
5. Irwin, G. L., Cruz, A. A. B., **Brush, C. J.**, Greene, A., Brooks, S. J., & Brown, A. F. (2024). Inconsistencies in normal weight obesity classification from multiple body composition techniques. *International Journal of Exercise Science: Conference Proceedings*, 8(12), 21.
6. Burani, K., Klawohn, J., **Brush, C. J.**, Threadgill, H., & Hajcak, G. (2023). Error-related (ERN) and reward-related (RewP) event-related potentials: Comparison between a dry electrode and gel-based system. *Psychophysiology*, 60(S1), S154.
7. **Brush, C. J.**, Keith, L. R., & Hajcak, G. (2023). Physical activity and associations with reward responsiveness and internalizing symptoms of depression and anxiety in adolescence. *Journal of Sport & Exercise Psychology*, 45(S1), S65.
8. **Brush, C. J.**, Santopetro, N., Kallen, A., Burani, K., Winkler, A., & Hajcak, G. (2022). Associations between physical activity, sedentary behavior, and the P300 during adolescence. *Psychophysiology*, 59(S1), S157.
9. Dell'Acqua, C., **Brush, C. J.**, Burani, K., Santopetro, N., Klawohn, J., Messerotti Benvenuti, S., & Hajcak, G. (2022). Reduced electrocortical responses to pleasant pictures in depression: A time-domain and time-frequency delta analyses. *Psychophysiology*, 59(S1), S43.
10. Dell'Acqua, C., Hajcak, G., **Brush, C. J.**, Santopetro, & Meyer, A. (2022). Error-related neural activity in children with obsessive-compulsive disorder: A time-frequency investigation. *Psychophysiology*, 59(S1), S43.
11. Thompson, B., Santopetro, N., **Brush, C. J.**, & Hajcak, G. (2022). Reduced neural response to cue and feedback stimuli in the MID task predicts adolescent depressive symptomology. *Psychophysiology*, 59(S1), S122.
12. Kallen, A., **Brush, C.**, Patrick, C., & Hajcak, G. (2022). The P300 during a go/no-go task in adolescent depression: Within-task change and average amplitude differentially relate to anhedonia and negative mood, 59(S1), S133.
13. Santopetro, N., **Brush, C.**, Nelson, B., Hajcak, G., & Klein, D. (2022). Reductions in childhood doors-locked P300 amplitude predicts increased risk for depressive disorders during adolescence. *Psychophysiology*, 59(S1), S145.
14. Keith, L., **Brush, C. J.**, Hajcak, G., Kiesses, D., & Sachs-Ericsson, N. (2022). Psychometric properties of reward-related event-related potentials in older adults. *Psychophysiology*, 59(S1), S146.
15. Bowyer, C., **Brush, C. J.**, Patrick, C., & Hajcak, G. (2022). Dissecting the temporal dynamics of motivational and consummatory reward processing deficits in depression. *Psychophysiology*, 59(S1), S154.
16. **Brush, C. J.**, Hajcak, G., & Alderman, B. L. (2021). Neural indicators of performance monitoring in depression: The error-related negativity and reward positivity as targets and predictors of response to aerobic exercise. *Psychophysiology*, 58(S1), S20.
17. Kallen, A., **Brush, C. J.**, Meyer, A., & Hajcak, G. (2021). Differential within-task change of infrequent go and infrequent no-go P300 amplitude in adolescents. *Psychophysiology*, 58(S1), S33.
18. Santopetro, N., Mulligan, E., **Brush, C.**, & Hajcak, G. (2021). Effects of multiple assessment and depressive symptoms on P300 amplitude. *Psychophysiology*, 58(S1), S42.

19. Burani, K., **Brush, C. J.**, Shields, G., Slavich, G., Nelson, B., & Hajcak, G. (2021). Acute, but not chronic, lifetime stress exposure interacts with the RewP to prospectively predict increases in depressive symptoms. *Psychophysiology*, *58*(S1), S44.
20. Meynadasy, M., **Brush, C. J.**, Sheffler, J., Kiosses, D., Sachs-Ericsson, N., & Hajcak, G. (2021). Internal consistency and stability of the late positive potential during an emotion regulation task in older adults. *Psychophysiology*, *58*(S1), S82.
21. **Brush, C. J.**, & Hajcak, G. (2021). Acute exercise effects on positive emotional reactivity in major depression: Evidence from the late positive potential. *Journal of Sport & Exercise Psychology*, *43*, S58.
22. Meynadasy, M., **Brush, C. J.**, Mach, R., Sheffler, J., Kiosses, D., Sachs-Ericsson, N., & Hajcak, G. (2020). Emotion regulation, depression, and the LPP in older adults. *Psychophysiology*, *57*(S1), S9.
23. Bruchnak, A., **Brush, C. J.**, Klawohn, J., & Hajcak, G. (2020). Examining the role of event-related potentials during self-referential processing in current and remitted depression. *Psychophysiology*, *57*(S1), S53.
24. Jordan, C., Stewart, R., **Brush, C. J.**, Cogle, J., & Hajcak, G. (2020). Appearance concerns are associated with neural response to self-relevant stimuli. *Psychophysiology*, *58*(S1), S69.
25. **Brush, C. J.**, Hajcak, G., & Alderman, B. L. (2020). Neural responsiveness to reward and cognitive control following an eight-week aerobic exercise trial for depression. *Medicine & Science in Sports & Exercise*, *52*(7S), 680.
26. Bocchine, A. J., **Brush, C. J.**, Ude, A. A., Pappas, G. H., Piersol, K. L., & Alderman, B. L. (2020). Does an acute bout of aerobic exercise bolster reactivity to a sad mood induction in clinically depressed individuals? A study of responders and non-responders. *Medicine & Science in Sports & Exercise*, *52*(7S), 848-849.
27. **Brush, C.**, Foti, D., Miller, M., Bocchine, A., Muniz, K., Gooden, M., & Alderman, B. L. (2019). Acute aerobic exercise boosts emotional reactivity to pleasant images but does not impact reward processing. *Psychophysiology*, *56*(S1), S49.
28. Pappas, G., Ude, A., Piersol, K., Bocchine, A., **Brush, C.**, Silverstein, S., Erickson, M., & Alderman, B. (2019). Does aerobic fitness protect against impaired cognition in first-episode psychosis? Evidence from the P3 and lateralized readiness potential. *Psychophysiology*, *56*(S1), S64.
29. Bocchine, A., **Brush, C.**, & Alderman, B. (2019). Aerobic fitness does not moderate the reward positivity across major depressive disorder and first-episode psychosis. *Psychophysiology*, *56*(S1), S90.
30. **Brush, C.**, Alderman, B., & Hajcak, G. (2019). Identifying optimal task length to elicit the largest between group effects in reward processing during a simple gambling task. *Psychophysiology*, *56*(S1), S118.
31. Ude, A., Pappas, G., **Brush, C. J.**, Bocchine, A., Silverstein, S., Erickson, M., & Alderman, B. (2019). The moderating role of aerobic fitness on cognition in first-episode schizophrenia: Evidence from the P3 event-related potential. *Journal of Sport & Exercise Psychology*, *41*, S87.
32. Bocchine, A., **Brush, C.**, Ude, A., Pappas, G., Muniz, K., & Alderman, B. (2019). Aerobic fitness moderates dynamic processing of negative emotional stimuli in depression. *Journal of Sport & Exercise Psychology*, *41*, S55.
33. Bocchine, A., Alderman, B., **Brush, C.**, & Margetich, A. (2019). The effects of acute and chronic exercise on anxiety sensitivity: A meta-analysis. *Annals of Behavioral Medicine*, *53*(Suppl 1), S652.
34. Bocchine, A., **Brush, C.**, Ehmann, P., & Alderman, B. (2018). Selective impairments in recognition

memory among individuals with MDD. *Psychophysiology*, 55(S1), S101.

35. Ehmann, P., **Brush, C.**, Bocchine, A., & Alderman, B. (2018). The reliability and convergent validity of the P3 cognitive ERP elicited by traditional flanker and oddball paradigms. *Psychophysiology*, 55(S1), S53.
36. **Brush, C.**, Ehmann, P., Selby, E., Hajcak, G., & Alderman, B. (2018). Using multilevel modeling to examine blunted neural responses to reward in major depression. *Psychophysiology*, 55(S1), S49.
37. Alderman, B., **Brush, C.**, & Ehmann, P. (2018). Influence of comorbid anxiety and depression on error-related brain activity. *Psychophysiology*, 55(S1), S72.
38. Ehmann, P., **Brush, C.**, Bocchine, A., & Alderman, B. (2018). Acute aerobic exercise improves emotion regulation: Evidence from the late positive potential. *Journal of Sport & Exercise Psychology*, 40, S89-S90.
39. Muniz, K., **Brush, C.**, Olson, R., Ehmann, P., Bocchine, A., & Alderman, B. (2018). Attentional focus manipulations on affective, exertional, and physiological responses to maximal exercise. *Journal of Sport & Exercise Psychology*, 40, S109.
40. **Brush, C.**, Ehmann, P., Olson, R., Bocchine, A., & Alderman, B. (2018). Fitness as a moderator of the aging and cognition relationship: An ERP study. *Journal of Sport & Exercise Psychology*, 40, S80.
41. Gooden, M., Muniz, K., **Brush, C.**, Ehmann, P., Bocchine, A., & Alderman, B. (2018). The effects of acute exercise on reward processing during a monetary gambling task. *Journal of Sport & Exercise Psychology*, 40, S92.
42. Radler, D., Griehs, R., Banu, A., **Brush, C. J.**, Ehmann, P. J., & Alderman, B. L. (2018). Relationship between changes in weight, physical activity & executive function. *Annals of Behavioral Medicine*, 52(Suppl 1), S93.
43. **Brush, C. J.**, Ehmann, P. J., & Alderman, B. L. (2018). Prediction of treatment response to exercise in adults with major depressive disorder. *Annals of Behavioral Medicine*, 52(Suppl 1), S769.
44. Bocchine, A., **Brush, C.**, Ehmann, P., & Alderman, B. (2017). Autonomic and behavioral responses to an emotional stroop task in high and low anxious individuals. *Psychophysiology*, 54(S1), S155.
45. **Brush, C. J.**, Ehmann, P. J., Olson, R. L., Bocchine, A. J., & Alderman, B. L. (2017). Characterizing treatment response to 8-weeks of aerobic exercise training in major depressive disorder. *Journal of Sport & Exercise Psychology*, 39, S228-S229.
46. Ehmann, P. J., **Brush, C. J.**, Olson, R. L., Bocchine, A. J., Bhatt, S. N., Banu, A. H., & Alderman, B. L. (2017). Age and task-specific moderators of the aerobic fitness and executive function relationship. *Journal of Sport & Exercise Psychology*, 39, S245-S246.
47. **Brush, C. J.**, & Alderman, B. L. (2017). The relation of fitness and life stress on the temporal dynamics of cognition in older adults: Evidence from the P3 and lateralized readiness potentials. *Medicine & Science in Sports & Exercise*, 49(5S), 993.
48. Bocchine, A. J., Olson, R. L., **Brush, C. J.**, Ehmann, P. J., & Alderman, B. L. (2017). Effects of an 8-week moderate-intensity aerobic exercise intervention on episodic memory and cognitive control. *Medicine & Science in Sports & Exercise*, 49(5S), 302.
49. Alderman, B. L., Olson, R. L., **Brush, C. J.**, Ehmann, P. J., & Shors, T. J. (2016). Combining aerobic exercise and focused-attention meditation to target cognitive control processes in major depressive disorder. *Psychophysiology*, 53(S1), S13.

50. **Brush, C. J.**, Olson, R. L., Ehmann, P. J., & Alderman, B. L. (2016). Effects of an 8-week moderate-intensity aerobic exercise intervention on conflict monitoring processes in major depressive disorder. *Psychophysiology*, *53*(S1), S39.
51. Ehmann, P. J., **Brush, C. J.**, Olson, R. L., & Alderman, B. L. (2016). Resting cardiac autonomic balance (CAB) predicts current major depressive disorder. *Psychophysiology*, *53*(S1), S75.
52. Olson, R. L., **Brush, C. J.**, Ehmann, P. J., & Alderman, B. L. (2016). Effects of an 8-week aerobic exercise intervention on ruminative thought patterns in major depressive disorder. *Medicine & Science in Sports & Exercise*, *48*(5S), 316-317.
53. **Brush, C. J.**, Olson, R. L., Ehmann, P. J., & Alderman, B. L. (2016). The influence of sport-related concussion on autonomic and cognitive function. *Medicine & Science in Sports & Exercise*, *48*(5S), 843.
54. Ehmann, P. J., Olson, R. L., **Brush, C. J.**, Maroldi, N. J., & Alderman, B. L. (2016). Sexual dimorphic association between cardiorespiratory fitness and cardiac autonomic responses to mental challenge. *Medicine & Science in Sports & Exercise*, *48*(5S), 424.
55. Olson, R. L., **Brush, C. J.**, Ehmann, P. J., & Alderman, B. L. (2016). Effects of an 8-week aerobic exercise intervention on attention and cognitive control in major depressive disorder. *Journal of Sport & Exercise Psychology*, *38*, S238-S239.
56. Ehmann, P. J., **Brush, C. J.**, Olson, R. L., Bhatt, S. N., Banu, A. H., & Alderman, B. L. (2016). Slow walking on a treadmill workstation does not impair executive functions. *Journal of Sport & Exercise Psychology*, *38*, S184.
57. **Brush, C. J.**, Olson, R. L., Ehmann, P. J., James-Palmer, A. M., Schreier, C. D., & Alderman, B. L. (2016). Event-related potential indices of cognitive function in long-term yoga practitioners. *Journal of Sport & Exercise Psychology*, *38*, S165.
58. Alderman, B. L., Olson, R. L., **Brush, C. J.**, & Alderman, B. L. (2015). Mental and physical (MAP) training as a neurobehavioral intervention for cognitive control and rumination in depression. *Psychophysiology*, *52*(S1), S34.
59. Olson, R. L., **Brush, C. J.**, del Prado, K., & Alderman, B. L. (2015). Neural responses to food images in normal weight, overweight, and obese individuals. *Psychophysiology*, *52*(S1), S75.
60. **Brush, C. J.**, Olson, R. L., Osovsky, S., & Alderman, B. L. (2015). Dose-response and time-course effects of acute resistance exercise on core executive functions. *Journal of Sport & Exercise Psychology*, *37*, S99.
61. Alderman, B. L., Olson, R. L., **Brush, C. J.**, & Shors, T. J. (2015). Effects of a combined mental and physical (MAP) training intervention on depressive symptoms, rumination, mindfulness, and aerobic fitness in major depressive disorder. *Journal of Sport & Exercise Psychology*, *37*, S94.
62. **Brush, C. J.**, Olson, R. L., Townsend, M. A., Perucho, J. F., & Alderman, B. L. (2014). Concussion history and years of high-risk sport participation on cognitive control. *International Journal of Exercise Science: Conference Proceedings*, *9*(3), 14.

Refereed/Adjudicated (currently scheduled or submitted):

Book Chapters (n=3)

1. Kao, S. C., **Brush, C. J.**, Drollette, E., & Wang, C. H. (currently scheduled). Electroencephalogram to map human cognition and emotion onto physical activity. *Physical activity and cognitive neuroscience*.

2. **Brush, C. J.**, MacAlevy, G. M., & Knudson, K. (submitted). Emotional reactions to exercise. In M. Bigliassi & E. Filho (Eds.), *Sport and exercise psychophysiology*. Springer Nature.
3. **Brush, C. J.**, & MacAlevy, G. M. (submitted). EEG as a neurodiagnostic tool. In T. F. Farrer & R. Frost (Eds.), *Neurodiagnostics: Laboratory examinations for neuropsychologists*. Oxford University Press.

Peer Reviewed/Evaluated (currently scheduled or submitted):

Journals (n=7)

1. Knudson, K., Luvaas, E., & **Brush, C. J.** (currently scheduled). Comparison of affective and cognitive responses to a brief outdoor versus indoor walk. *Journal of Sport & Exercise Psychology*.
2. Dell'Acqua, C., **Brush, C. J.**, Kuehrt, C., Mueller, E. M., Riesel, A., Paul, K., & Messerotti Benvenuti, S. (submitted). Linking neural responses to reward and childhood stress exposure to depressive symptoms: A large cross-sectional investigation. *Clinical Psychological Science*.
3. Simon, J. R., Bruchnak, A., Klawohn, J., Santopetro, N. J., Burani, K., & Hajcak, G., & **Brush, C. J.** (submitted). Positive and negative self-referential emotional bias in current and remitted depression: Evidence from the late positive potential. *International Journal of Psychophysiology*.
4. Martonick, N. P., Leverett, S., Baker, J., & **Brush, C. J.** (currently scheduled). Effects of a novel manualized therapy on affective responses and parasympathetic and sympathetic nervous system activity in adult men and women. *Healthcare*.
5. Burani, K., Klawohn, J., **Brush, C. J.**, Threadgill, A. H., & Hajcak, G. (submitted). Recording event-related potentials: Comparison between a mobile dry and stationary gel-based EEG system. *Psychophysiology*.
6. **Brush, C. J.**, Merica, C. B., Orendorff, K., Knudson, K. A., Klein, L., & Egan, C. (submitted). Why should kids move at school?. *Frontiers for Young Minds*.
7. Santopetro, N. J., Thompson, B., Albanese, B., **Brush, C. J.**, & Schmidt, N. B. (submitted). Depression remission over six months characterized by elevated target-locked P300 ERP component: Prospective evidence employing an affective visual oddball task. *Psychophysiology*.

Presentations and Other Creative Activities:

Invited Presentations (n=8)

1. **Brush, C. J.** (November, 2024). *Habitual creatine intake, cognitive function, and depression in adolescent girls*. University of Idaho COBRE Nutrition & Women's Health Retreat, Sandpoint, ID.
2. **Brush, C. J.** (September, 2024). *Dietary intake, cognitive function, and depression in adolescent girls*. Idaho IDEA Network of Biomedical Research Excellence Roundtable Series, Lewiston, ID.
3. **Brush, C. J.** (May, 2024). *Positive emotion: A nexus between depression and exercise?*. School of Kinesiology, Auburn University, Auburn, AL.
4. **Brush, C. J.** (January, 2024). *Exercise as an antidepressant: Understanding how, why, and for whom*. Department of Kinesiology, Washington State University, Pullman, WA.
5. **Brush, C. J.** (March, 2023). *Exercise as an antidepressant: Understanding how, why, and for*

whom. College of Education, Health and Human Sciences Intramural Seminar, University of Idaho, Moscow, ID.

6. **Brush, C. J.** (February, 2020). *Event-related potentials and their application to translational behavioral science*. Center for Translational Behavioral Science, Florida State University, Tallahassee, FL.
7. **Brush, C. J.** (June, 2019). *Benefits of physical activity on mental health*. Living Well: Rutgers Conference on Lifestyle and Health, Rutgers University, New Brunswick, NJ.
8. **Brush, C. J.** (March, 2018). *How does exercise reduce depression? Targeting cognitive and emotional biomarkers of depression*. Rutgers Robert Wood Johnson Medical School, Piscataway, NJ.

Professional Conference Presentations (without abstract publications) (n=7)

1. **Brush, C. J.** (2024). *Examining the interplay between physical activity, neural response to reward, and depression* [Oral Presentation]. Northwest Regional Chapter of the American College of Sports Medicine, Moscow, ID.
2. Taylor, J., **Brush, C. J.**, & Bacelar, M. F. B. (2024). *EEG correlates of reward sensitivity and depressive symptoms in older adults: Can physical activity act as a protective mechanism?* [Oral Presentation]. Western Society for Physical Education of College Women, Oakland, CA.
3. Dluzniewski, A., Casanova, M. P., Ullrich-French, S., **Brush, C. J.**, & Baker, R. T. (2024). *Exploring the influence of gratitude on musculoskeletal injury recovery: A latent growth modeling analysis* [Poster Presentation]. The 39th Annual Association for Applied Sport Psychology Conference, Las Vegas, NV.
4. Brunner, S., & **Brush, C. J.** (2024). *Associations between affective variability, physical activity, and sedentary time in adults with depressive symptoms using ecological momentary assessment and actigraphy* [Poster Presentation]. Society for Affective Science Annual Meeting, New Orleans, LA.
5. Kobylanski, M. K., Keith, L. R., Hajcak, G., & **Brush, C. J.** (2024). *The role of emotional experience in the physical activity and depressive symptom relationship in adolescents* [Poster Presentation]. Society for Affective Science Annual Meeting, New Orleans, LA.
6. Banu, L., Buckman, J., Olson, R., **Brush, C. J.**, Eddie, D., Peyser, D., Bates, M, Shors, T., & Alderman B. (2016). *Relationships between alcohol use, depression, and neurocardiac functioning* [Poster Presentation]. APA Division 50 Collaborative Perspectives on Addiction Annual Meeting, San Diego, CA.
7. Millon, E. M., Alderman, B., Olson, R., **Brush, C. J.**, & Shors, T. J. (2016). *Learning not to ruminate about the past with mental and physical (MAP) training* [Poster Presentation]. Eastern Psychological Association Annual Meeting, New York, NY.

Grants and Contracts Awarded:

Awarded (n=6; Total costs: \$461,396; Total costs since start of UI appointment: \$253,486)

Center of Biomedical Excellence (COBRE) in Nutrition and Women's Health at the University of Idaho, 1P20 GM152304-01

Title: The relationship between habitual dietary creatine intake, cognitive function, and depression in adolescent girls

Role: PI

Total costs: \$74,430

Dates: 2024-Present

Institute for the Study of Behavioral Health and Addiction at Boise State University

Title: Examining the association between positive valence systems, physical activity, and depression in older adults

Role: Co-PI

Other PI: Mariane Bacelar, Ph.D.

Total costs: \$15,000

Dates: 2024-Present

University of Idaho College of Education, Health and Human Sciences Huckabay Excellence Award

Title: Examining associations between physical activity and positive valence systems in young adults with depressive symptoms

Role: PI

Other PIs: Cate Egan, Ph.D., Hayley McKown, Ph.D., & Chantal Vella, Ph.D.

Total costs: \$14,060

Dates: 2023-Present

Idaho Department of Transportation—Transportation Alternatives Program

Title: Safe Routes to School Program for Moscow, ID

Role: Co-PI

Other PI: Cate Egan, Ph.D.

Total Costs: \$149,996

Dates: 2025-2027

National Institutes of Health (NIH), National Institute of Mental Health (NIMH), F32 MH125504

Ruth L. Kirschstein National Research Service Award – Postdoctoral Fellowship

Title: Examining effort-based reward processing and lifetime stress in relation to depression during adolescence

Role: PI

Sponsor: Greg Hajcak, Ph.D.

Consultants: Alexandria Meyer, Ph.D., George Slavich, Ph.D., & Michael Treadway, Ph.D.

Total costs: \$205,410

Dates: 2021-2022

(Note: Completed 13 of 36 months to start Tenure-Track position at the University of Idaho)

Society for Psychophysiological Research

Research Training Grant

Title: Examining neural responses to reward and cognitive control in major depression using time-frequency and principal component analytical approaches

Role: PI

Sponsor: Dan Foti, Ph.D.

Total costs: \$2,500

Dates: 2018-2019

Submitted, Not Awarded (n=2; Total costs: \$340,714)

National Institute of Child Health and Human Development (NICHD), R21 HD113773

Title: Mindfulness and aerobic exercise for improving emotion regulation and affect in adolescents

Role: Co-I

Others: Shih-Chun Kao, Ph.D. (PI) and Sarah Ullrich-French, Ph.D. (Co-I)

Total costs: \$275,000

Dates: 2025-2027

National Institute of General Medical Sciences (NIGMS), 1U54 GM104944

Mountain West Clinical & Translational Research Infrastructure Network Program

Title: Effects of physical activity on neural vulnerability for depression in youth

Role: PI

Others: Cate Egan, Ph.D. (Co-I) and Hayley McKown, Ph.D. (Co-I)

Total costs: \$65,714
 Dates: 2023-2024

Mentored Student Grants (n=6; Total costs: \$65,060; Total costs since start of UI appointment: \$4,520)

American College of Sports Medicine Northwest Student Research Award

Title: Physical activity-focused digital intervention to promote physical activity and reduce depressive symptoms among adults experiencing clinical symptoms of depression

Role: Mentor

Graduate Student PI: Karly Knudson, B.S.

Total costs: \$1,000

Dates: January 2025-Present

University of Idaho Office of Undergraduate Research (OUR) Grant

Title: Does fitness moderate the effects of an acute stressor on emotion regulation?

Role: Mentor

Undergraduate Student PI: Austin Simon

Total costs: \$1,000

Dates: January 2025-May 2025

University of Idaho Office of Undergraduate Research (OUR) Grant

Title: Can a brief intervention help manage the effects of acute stress on cognitive performance?

Role: Mentor

Undergraduate Student PI: Saffron Dowse

Total costs: \$875

Dates: January 2024-May 2024

University of Idaho Office of Undergraduate Research (OUR) Grant

Title: Clarifying the positive affective benefits of going for a walk

Role: Mentor

Undergraduate Student PI: Karly Knudson

Total costs: \$800

Dates: August 2023-December 2023

University of Idaho Office of Undergraduate Research (OUR) Grant

Title: Examining daily associations between physical activity, sedentary behavior, and mood in young adults with depressive symptoms

Role: Mentor

Undergraduate Student PI: Samantha Brunker

Total costs: \$845

Dates: August 2023-December 2023

National Institutes of Health (NIH), National Institute of Mental Health (NIMH), T32 MH093311

Ruth L. Kirschstein National Research Service Institutional Training Grant Award – Predoctoral Fellowship

Title: Neural risk markers of Alzheimer's Disease and their modulation through exercise

Role: Co-Mentor

PI: Melissa Meynadasy, M.S.

Total costs: \$60,540

Dates: 2020-2022

Honors and Awards:

International

Third Place Award (\$250) for "Psychophys Is" Video Contest, Society for Psychophysiological Research, 2024

Graduate Student Poster Award, Society for Psychophysiological Research, 2016

National

Doctoral Scholar Award, American Kinesiology Association, 2019
 UC-Davis ERP Boot Camp Fellow, National Institute of Mental Health, 2016

University

Conference Travel Award, Rutgers University, 2015-2019

TEACHING ACCOMPLISHMENTS:

Areas of Specialization: Exercise, Sport & Health Psychology; Psychophysiology; Research Design & Analysis

Courses Taught:University of Idaho, Department of Movement Sciences (Instructor of Record)

MVSC 612	Research Immersion in Movement Sciences, Fall 2024
ESHS 598	Internship, Fall 2024
ESHS 502	Directed Study, Fall 2024
ESHS 305	Sport and Exercise Psychology, Summer 2024, Fall 2024
PEP 499	Directed Study, Spring 2023, Fall 2023
MVSC 570	Research in Physical Activity, Theory and Design, Fall 2023, Fall 2024
PEP 305	Applied Sports Psychology, Spring 2023, Summer, 2023, Fall 2023
PEP 455	Design & Analysis of Research in Movement Sciences, Spring 2023, Spring 2024
PEP 560	Sport Psychology, Fall 2022, Spring 2024

Florida State University, Department of Psychology (Instructor of Record)

BSC 4900/4901	Directed Individual Study, Summer 2021-Fall 2021
PSY 4039	Honors Work, Summer 2021
CLP 3314	Health Psychology, Fall 2019-Fall 2021

Rutgers University, Division of Life Sciences (Teaching Assistant)

01:146:357	Systems Physiology Lab, Fall 2016-Spring 2019
01:119:115/116	General Biology I/II, Fall 2015, Spring 2016, Summer 2016
01:377:371	Exercise Physiology Lab, Spring 2015

Rutgers University, Division of Life Sciences (Instructor of Record)

01:377:140	Foundations of Exercise Science & Sport Studies, Fall 2014
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Students Advised:**Undergraduate Students:**University of Idaho (as an Assistant Professor)

Academic Advisor: 5 students, Fall 2024-Present

Academic Advisor: 7 students, Fall 2023-Spring 2024

Honors Thesis Mentor: 1 student, Fall 2024-Present

Practicum Mentor: 3 students in the Psychophysiology of Active Lifestyles Laboratory, Fall 2024

Internship Mentor: 1 student in the Psychophysiology of Active Lifestyles Laboratory, Fall 2024

Research Mentor: 8 students in the Psychophysiology of Active Lifestyles Laboratory, 2024-Present

Practicum Mentor: 2 students in the Psychophysiology of Active Lifestyles Laboratory, Spring 2024

Research Mentor: 10 students in the Psychophysiology of Active Lifestyles Laboratory, 2023-2024

Practicum Mentor: 2 students in the Psychophysiology of Active Lifestyles Laboratory, Fall 2023

Research Mentor: 5 students in the Psychophysiology of Active Lifestyles Laboratory, 2022-2023

Florida State University (as a Postdoctoral Scholar)

Honors Thesis Mentor: 1 student in the Risk for Anxiety and Depression Laboratory, 2021-2022

Research Mentor: 6 students in the Risk for Anxiety and Depression Laboratory, 2021-2022

Research Mentor: 14 students in the Risk for Anxiety and Depression Laboratory, 2020-2021

Research Mentor: 7 students in the Risk for Anxiety and Depression Laboratory, 2019-2020

Rutgers University (as a Graduate Researcher)

Research Mentor: 22 students in the Exercise Psychophysiology Laboratory, 2018-2019

Research Mentor: 8 students in the Exercise Psychophysiology Laboratory, 2018-2019

Research Mentor: 15 students in the Exercise Psychophysiology Laboratory, 2016-2017

Research Mentor: 14 students in the Exercise Psychophysiology Laboratory, 2015-2016

Research Mentor: 10 students in the Exercise Psychophysiology Laboratory, 2014-2015

Graduate Students:University of Idaho (as an Assistant Professor)**Advised as major professor, in progress***Doctoral*

Karly Knudson, Ph.D., Education (Exercise Science Emphasis), 2024-Present

Jessica Barker, Ph.D., Education (Healthy Active Lifestyles Emphasis), 2024-Present

Master's

Rheanna Anderson, M.S., Kinesiology and Leisure Sciences, 2024-Present (Non-Thesis)

Maya Kobylanski, M.S., Kinesiology and Leisure Sciences, 2024-Present (Non-Thesis)

Graduate Student Committee Member (University of Idaho), in progress

Maxx Antush, Ph.D. Education (Exercise Science Emphasis), Fall 2024-Present

Sarah Schlitter, Ph.D., Education (Exercise Science Emphasis), Fall 2024-Present

Ariel Aguiar Bonfim Cruz, Ph.D. Education (Exercise Science Emphasis), Spring 2024-Present

Graduate Student Committee Member (External), in progress

Salim Onbasi, M.S. Exercise Psychology, Purdue University, Summer 2024-Present

Jet Taylor, M.S., Kinesiology, Boise State University, Spring 2024-Present

Melissa Materia, Ph.D., Behavioral Science, University of North Texas, Fall 2023-Present

Served on Graduate Committee

Alexandra Dluzniewski, Ph.D., Education (Exercise Science Emphasis), Summer 2023

Gena Irwin, M.S., Movement and Leisure Science, Spring 2024

Research Mentor

Karly Knudson, Ph.D., Education (Exercise Science Emphasis), Fall 2024-Present

Jessica Barker, Ph.D., Education (Healthy Active Lifestyles Emphasis), Fall 2024-Present

Rheanna Anderson, M.S., Kinesiology and Leisure Sciences, 2024-Present

Maya Kobylanski, M.S., Kinesiology and Leisure Sciences, 2024-Present

Preston Kauder, Ph.D., Education (Exercise Science Emphasis), Fall 2023-Spring 2024

Tim Johnson, M.S., Kinesiology and Leisure Sciences (Pedagogy), Fall 2023-Spring 2024

Gabriel MacAlevy, MS1/2, Idaho WWAMI Medical Student, Fall 2023-Present

Florida State University (as a Postdoctoral Scholar)**Research Mentor**

10 Ph.D. students in the Risk for Anxiety and Depression Laboratory, 2021-2022

10 Ph.D. students in the Risk for Anxiety and Depression Laboratory, 2020-2021

8 Ph.D. students in the Risk for Anxiety and Depression Laboratory, 2019-2020

Courses Developed:University of Idaho

PEP/ESHS 305 (Online) Sport and Exercise Psychology (Summer 2023)

PEP 560 (Online) Sport Psychology (Spring 2023)

MVSC 570 (Online) Research in Physical Activity, Theory and Design (Fall 2023)

Florida State University

CLP 3314 Health Psychology, Fall 2020 (online)

CLP 3314 Health Psychology, Fall 2019

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Non-credit Seminars (meet monthly)

1. Brush, C. J., & Bailey, J. P. (Fall 2024). *Scholarly seminar series for movement sciences students*. Seminar series within the Department of Movement Sciences, University of Idaho, Moscow, ID.

Seminars

1. Brush, C. J. (March, 2023). *Physical activity as an antidepressant: Understanding how, why, and for whom?* Seminar presented to the College of Education, Health and Human Sciences, University of Idaho, Moscow, ID.

Workshops

1. Hajcak, G., & Brush, C. J. (October, 2019). *Introduction to advanced signal processing approaches using EEG data*. Workshop presented to the Department of Psychology, Florida State University, Tallahassee, FL.

Invited Guest Lectures

1. Brush, C. J. (Fall 2023). *Overview of conducting psychophysiological research in an exercise psychology laboratory*. Lecture presented to PEP 495 Practicum in Exercise Science & Health. Department of Movement Sciences, University of Idaho, Moscow, ID.
2. Brush, C. J. (Spring 2023). *Brief overview of learning how to conduct exercise and mental health research*. Lecture presented to PEP 498 Internship in Exercise Science & Health. Department of Movement Sciences, University of Idaho, Moscow, ID.
3. Brush, C. J. (Fall 2021). *Psychophysiological mechanisms of anxiety and depression*. Lecture presented to PSY 3213C Research Methods. Department of Psychology, Florida State University, Tallahassee, FL.
4. Brush, C. J. (Spring 2019). *A basic introduction into human-subjects research and conducting ethical research*. Lecture presented to 16:572:505 Research Methods in Exercise Science. Department of Kinesiology & Health, Rutgers University, New Brunswick, NJ.
5. Brush, C. J. (Spring 2018). *Using statistical techniques to guide basic research design*. Lecture presented to 16:572:505 Research Methods in Exercise Science. Department of Kinesiology & Health, Rutgers University, New Brunswick, NJ.
6. Brush, C. J. (Summer 2017). *Exercise as a treatment for depression*. Lecture presented to 01:377:455 Exercise Psychology. Department of Exercise Science & Sport Studies, Rutgers University, New Brunswick, NJ.
7. Brush, C. J. (Summer 2017). *Using psychophysiological techniques in exercise psychology research*. Lecture presented to 01:377:455 Exercise Psychology. Department of Exercise Science & Sport Studies, Rutgers University, New Brunswick, NJ.
8. Brush, C. J. (Summer 2017). *Integrating and implementing theories of physical activity behavior science*. Lecture presented to 01:377:455 Exercise Psychology. Department of Exercise Science & Sport Studies, Rutgers University, New Brunswick, NJ.
9. Brush, C. J. (Summer 2016). *Exercise and cognitive function: Acute and chronic effects and methodological approaches*. Lecture presented to 01:377:455 Exercise Psychology. Department of Exercise Science & Sport Studies, Rutgers University, New Brunswick, NJ.
10. Brush, C. J. (Summer 2016). *Integrating and implementing theories of physical activity behavior science*. Lecture presented to 01:377:455 Exercise Psychology. Department of Exercise Science & Sport Studies, Rutgers University, New Brunswick, NJ.
11. Brush, C. J. (Spring 2016). *An introduction to the event-related brain potential technique: Recording and measurement considerations*. Lecture presented to 01:090:293 Interdisciplinary Honors Seminar: One Mind, Two Languages. School of Arts & Sciences, Rutgers University, New Brunswick, NJ.
12. Brush, C. J. (Spring 2015). *Exploring exercise science: An introduction to exercise and sport psychology research using neuroscientific techniques*. Lecture presented to 01:090:120 First-Year Interest Group Seminar in Exercise Science. School of Environmental & Biological Sciences, Rutgers University, New Brunswick, NJ.
13. Brush, C. J. (Summer 2015). *Theories of physical activity and exercise behavior*. Lecture presented to 01:377:455 Exercise Psychology. Department of Exercise Science & Sport Studies, Rutgers University, New Brunswick, NJ.
14. Brush, C. J. (Fall 2014). *Exercise and mental health: An overview of psychological outcomes and emotional wellbeing*. Lecture presented to 01:830:341 Abnormal Psychology Lab. Department of

Psychology, Rutgers University, New Brunswick, NJ.

Honors and Awards:

Teaching Assistant Professional Development Award, Rutgers University, Summer 2015-Summer 2018

SERVICE:

Major Committee Assignments:

International

Program Committee, Society for Psychophysiological Research, 2024-Present

Education and Training Committee, Society for Psychophysiological Research, 2021-Present

University

Undergraduate Research Certificate Committee, University of Idaho, 2024-Present

College

Equity Research Events Committee, Center for Translational and Behavioral Science, Florida State University, 2019

Departmental

Tenure & Promotion Committee, Movement Sciences, University of Idaho, 2023

Student Scholarship Ad Hoc Committee, Movement Sciences, University of Idaho, 2023-Present

Tenure-Track PETE Faculty Search Committee, Movement Sciences, University of Idaho, 2023

Ph.D. in Movement Sciences Ad Hoc Committee, Movement Sciences, University of Idaho, 2022-Present

MVSC 201 Curriculum Committee, Movement Sciences, University of Idaho, 2022-2023

M.S./M.L.S. Curriculum Committee, Movement Sciences, University of Idaho, 2022-Present

Departmental Chair Faculty Search Committee, Kinesiology and Health, Rutgers University, 2017

Tenure-Track Faculty Search Committee, Kinesiology and Health, Rutgers University, 2016

Professional and Scholarly Organizations

Memberships

American College of Sports Medicine, 2014-Present

American College of Sports Medicine Mid-Atlantic Chapter, 2014

American College of Sports Medicine Northwest Chapter, 2023-Present

Association for Behavioral and Cognitive Therapies, 2019-2020

Association for Psychological Science, 2024-Present

North American Society for Psychology of Sport and Physical Activity, 2015-Present

Society of Behavioral Medicine, 2018

Society for Psychophysiological Research, 2014-Present

Recommender Board (Note: At PCI, recommenders serve the role of associate editors.)

PCI Health & Movement Sciences, Recommender, 2022-Present

Ad Hoc Journal Reviewer for

Aging & Mental Health; Behavior Research Methods; Biological Psychiatry: Cognitive Neuroscience and Neuroimaging; Biological Psychology; BMJ Open; Brain and Behavior; Cerebral Cortex; Cognitive, Affective, & Behavioral Neuroscience; Cognitive Development; Cognitive Processing; Cortex; Development and Psychopathology; Focus on Autism and Other Developmental Disabilities; Frontiers in Human Neuroscience; Frontiers in Psychology; Frontiers in Psychiatry; International Journal of Psychophysiology; International Reviews of Sport & Exercise Psychology; Journal of Affective Disorders; Journal of Psychopathology and Clinical Science (formerly Journal of Abnormal Psychology); Journal of Sport & Exercise Psychology; Journal of Strength & Conditioning Research; Mental Health and Physical Activity; Nursing Open; PLoS One; Psychological Medicine; Psychological Reports; Psychology of Sport & Exercise; Psychophysiology; Research Quarterly for Exercise and Sport; Scientific Reports; Sustainability; Theoretical Issues of Ergonomic Science

Textbook Reviewer for
The Sport List at Routledge Books

Grant Reviewer for
National Science Centre of Poland; The Wellcome Trust of the United Kingdom

Outreach:

News Articles

Jackson, D. (2024, June). *Ready to serve*. University of Idaho News. <https://www.uidaho.edu/news/feature-stories/ready-to-serve>

Bergland, C. (2020, August 25). *New clues about the antidepressant power of aerobic exercise*. Psychology Today. <https://www.psychologytoday.com/us/blog/the-athletes-way/202008/new-clues-about-the-antidepressant-power-aerobic-exercise>

Ellwood, B. (2020, December 16). *A single exercise session can boost emotional reactivity to positive content among those with depressive symptoms*. PsyPost. <https://www.psypost.org/2020/12/a-single-exercise-session-can-boost-emotional-reactivity-to-positive-content-among-those-with-depressive-symptoms-58813>

Holohan, M. (2016, May 2). *The power of meditation: Growing research shows all the ways it's good for us*. Today. <https://www.today.com/series/one-small-thing/power-meditation-growing-research-shows-all-ways-it-s-good-t88991>

Reynolds, G. (2016, March 16). *Meditation plus running as a treatment for depression*. The New York Times Well Blog. <https://archive.nytimes.com/well.blogs.nytimes.com/2016/03/16/meditation-plus-running-as-a-treatment-for-depression/>

Outreach Service

UIdaho Envision Recruitment Event Lab Tour, Fall 2024
Co-Director, Safe Routes to School Program, 2024-Present

PROFESSIONAL DEVELOPMENT: (workshops and seminars attended)

Teaching:

Attended the Following Workshops

Florida State University Learning Management Systems and Canvas Training, 2019
Rutgers University Teaching Assistant Project: Preparing for the Professoriate Workshops, 2016
Rutgers University Teaching Assistant Project Workshops for Professional Development, 2014-2017
Rutgers University Teaching Assistant Orientation, 2014

Scholarship:

Attended the Following Workshops

University of Idaho COBRE Women's Health Seminar Series, 2024-Present
University of Idaho & Lewis-Clark State College INBRE Professional Development Roundtables, 2022-Present
University of Idaho Office of Research and Economic Development NIH Funding Success Program Part 1, 2022
Florida State University Office of Research Compliance Responsible Conduct of Research Workshop, 2021
Florida State University-University of Florida K Scholar Program, 2020-2022
Florida State University Office of Postdoctoral Affairs Career Development Workshops, 2019-2022
"What You Need to Know about Writing Grants: Tips and Techniques from Experts" Pre-Conference Workshop at the Society of Behavioral Medicine Annual Meeting, 2018
University of California at Davis Center for Mind & Brain ERP Boot Camp, 2016
Rutgers University Brain Imaging Center (RUBIC) Neuroimaging NSF Training, 2015
Rutgers University GradFund Mentoring Program for Securing External Funding, 2014-2015
NIH Ethical Scientific Conduct Course at Rutgers University, 2014
"What is Cognitive Science?" Talk Series at Rutgers Center for Cognitive Science, 2014-2018
University of California at Davis Center for Mind & Brain Mini ERP Boot Camp Pre-Conference Workshop at the Society for Psychophysiological Research Annual Meeting, 2014

Attended the Following Seminars

Mind and Body Balance: Understanding the Role of Physical Health in Mental Illness, Metro South Health Addiction and Mental Health Services, Queensland, Australia (Attended Online), November 2022
Rutgers University Center of Alcohol Studies Emerging Addiction Science Seminar Series, 2018-2019
Rutgers University Structural Equation Modeling and Multilevel Modeling Seminar Course, 2017

Attended the Following Conferences

Society for Psychophysiological Research Annual Meeting, October 2024
American College of Sports Medicine Northwest Chapter Annual Meeting, February 2024
North American Society for the Psychology of Sport and Physical Activity Annual Meeting, June 2023
Society for Psychophysiological Research Annual Meeting, September/October 2022
Society for Psychophysiological Research Virtual Annual Meeting, September 2021
North American Society for the Psychology of Sport and Physical Activity Virtual Annual Meeting, June 2021
American College of Sports Medicine Virtual Annual Meeting, May/June 2020
Association for Behavioral and Cognitive Therapies Annual Meeting, November 2019
Society for Psychophysiological Research Annual Meeting, September 2019
Society for Psychophysiological Research Annual Meeting, September/October 2018
North American Society for the Psychology of Sport and Physical Activity Annual Meeting, June 2018
Society of Behavioral Medicine Annual Meeting, April 2018
North American Society for the Psychology of Sport and Physical Activity Annual Meeting, June 2017
American College of Sports Medicine Annual Meeting, May/June 2017
Society for Psychophysiological Research Annual Meeting, September 2016
North American Society for the Psychology of Sport and Physical Activity Annual Meeting, June 2016
American College of Sports Medicine Annual Meeting, May/June 2016
Society for Psychophysiological Research Annual Meeting, September/October 2015
North American Society for the Psychology of Sport and Physical Activity Annual Meeting, June 2015
American College of Sports Medicine Mid-Atlantic Chapter Annual Meeting, October 2014
Society for Psychophysiological Research Annual Meeting, September 2014
American College of Sports Medicine Annual Meeting, May/June 2014

Other Training and Certifications:

Rutgers University Animal Laboratory Safety Training Workshop, 2016-2018
Collaborative Institutional Training Initiative (CITI) Human Subjects Training, 2015-Present
Rutgers University Laboratory Safety Training Workshop, 2012-2019