Ruchika Shaurya Prakash, Ph.D.

Curriculum Vitae

Updated: July, 2022

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PROFESSIONAL EXPERIENCE

2019–Present	Director, Center for Cognitive and Behavioral Brain Imaging College of Arts and Sciences The Ohio State University
2021–Present	Professor Department of Psychology The Ohio State University
2016–2021	Associate Professor Department of Psychology The Ohio State University
2009–2016	Assistant Professor Department of Psychology The Ohio State University
2014–Present	Licensed Psychologist #7208 Ohio State Board of Psychology

DEGREES CONFERRED

2009	Ph.D. in Clinical/Community Psychology University of Illinois at Urbana-Champaign
2006	M.A. in Psychology University of Illinois at Urbana-Champaign
2004	M.A. in Psychology University of Delhi, India
2002	B.A. in Psychology University of Delhi, India

HONORS & AWARDS

2022	Elected Fellow of the Academy of Behavioral Medicine Research
2017	Best Platform Presentation, Annual Meeting of the Consortium of MS Centers
2016	Springer Early Career Achievement in Research on Adult Development and Aging Award, American Psychological Association
2015	Distinguished Teaching Award, Department of Psychology, Ohio State University
2013	"Rising Star" Designation, Association for Psychological Science
2011	Citation Award, Society for Behavioral Medicine
2009	Whitaker Abstract Track presenter at Consortium of Multiple Sclerosis Centers meeting
2009	Ed Scheiderer Memorial Award for outstanding research by a clinical/community psychology graduate student
2008	Imaging Fellowship, University of California at Los Angeles
2006	Beckman Institute Graduate Fellowship, University of Illinois at Urbana-Champaign
2004	Summer Institute in Cognitive Neuroscience Fellowship, Dartmouth College

PUBLICATIONS ($^{+}$ mentored postdoctoral scholar, * indicates mentored graduate student; ** indicates mentored undergraduate student/research assistant)

Peer-Reviewed Journal Articles

1. **Prakash, R.S.,** Fountain-Zaragoza, S.*, Fisher, M.*, Gbadeyan, O.$^{+}$, Andridge, A., Kiecolt-Glaser, J., Manglani, H.R.*, Duraney, E.J.*, Shankar, A.*, Mckenna, M.R.*, Teng, J.*, Phansikar, M.$^{+}$, & Canter, R.** (accepted). Protocol for a Randomized Controlled Trial of Mindfulness-Based Stress Reduction to Improve Attentional Control in Older Adults (HealthyAgers Trial). *BMC Geriatrics.*

2. Duraney, E.J.*, Fisher, M.E.*, Manglani, H.R.*, Andridge, R., Nicholas, J., & **Prakash, R.S.** (in press). Impact of Mindfulness Training on Emotion Regulation in Multiple Sclerosis: Secondary Analysis of a Pilot Randomized Controlled Trial. *Rehabilitaton Psychology.*

3. Morris, T., Burzynska, A., Voss, M.W., Fanning, J., Salerno, E., **Prakash, R.S.,** Gothe, N., Whitfield-Gabrieli, S., Hillman, C., McAuley, E., & Kramer, A.F. (2022). Brain structure and function predict adherence to an exercise intervention in older adults. *Medicine & Science in Sports & Exercise.*

4. Manglani, H.*, Fisher, M.*, Duraney, E.*, Nicholas, J., & **Prakash, R.S.** (2022). A promising cognitive screener in multiple sclerosis: The NIH toolbox cognition battery concords with gold standard neuropsychological measures*. Multiple Sclerosis Journal.*

5. Gbadeyan, O. [+], Teng, J. *, & **Prakash, R.S.** (2022). Predicting mind-wandering from task and resting-state functional connectivity in the aging brain. *NeuroImage, 250.*

6. Duraney, E.J. *, Schirda, B. *, Nicholas, J., & **Prakash, R.S**. (in press). Trait mindfulness and emotion dysregulation in multiple sclerosis. *Multiple Sclerosis and Related Disorders.*

7. **Prakash, R.S.** (2021). Mindfulness meditation: Impact on attentional control and emotion dysregulation. *Archives of Clinical Neuropsychology, 36(7),* 1283-1290.

8. Manglani, H.*, Fountain-Zaragoza, S.*, Shankar, A.*, Nicholas, J., & **Prakash, R.S.** (2021). Employing connectome-based models to predict working memory in multiple sclerosis. *Brain Connectivity.*

9. Samimy, S.*, Manglani, H.*, Fountain-Zaragoza, S.*, Andridge, R., **& Prakash, R.S**. (2021). Impact of Mindfulness Training on In-the-Moment Attentional Control and Emotion Dysregulation in Older Adults: Secondary Analysis of a Pilot, Placebo-Controlled Randomized Controlled Trial. *Aging and Mental Health.*

10. Schirda, B.*, Duraney, E.*, Lee, K., Manglani, H.*, Andridge, R., Plate, A., Nicholas, J., & **Prakash, R.S.** (2020). Mindfulness Training and Emotion Dysregulation in Multiple Sclerosis: A Pilot Randomized Controlled Trial. *Rehabilitation Psychology, 65(3), 206-218.* doi:10.1037/rep0000324.

11. **Prakash, R.S.,** Fountain-Zaragoza, S.*, Kramer, A.F., Samimy, S.*, & Wegman, C. ** (2020). Mindfulness and attention: Current state-of-affairs and future directions. *Journal of Cognitive Enhancement, 4(3), 340-367.* doi: 10.1007/s41465-019-00144-5.

12. Manglani, H.*, Samimy, S.*, Schirda, B.*, Nicholas, J.A., & **Prakash, R.S.** (2020). Does 4 Weeks of Cognitive Rehabilitation Improve Processing Speed and Working Memory in MS? Results of Mindfulness Training Vs. Adaptive Computerized Training. *Neuropsychology, 34(5), 591-604.* doi:10.1037/neu0000633.

13. Whitmoyer, P.*, Fountain-Zaragoza, S.*, Andridge, R., Bredemeier, K., Londerée , A.** Kaye, L.**, **Prakash, R.S.** (2020). Mindfulness Training and Attentional Control in Older Adults: A Randomized Controlled Trial. *Mindfulness, 11,* 203-218. doi:10.1007/s12671-019-01218-3.

14. Green, C.S., Bavelier, D., Kramer, A.F., Vinogradov, S., Ansorge, U., Ball, K.K., Bingel, U., Chein, J.M., Colzato, L.S., Edwards, J.D., Facoetti, A., Gazzaley, A., Gathercole, S.E., Ghisletta, P., Gori, S., Granic, I., Hillman, C.H., Hommel, B., Jaeggi, S.M., Kanske, P., Karbach, J., Kingstone, A., Kliegel, M., Klingberg, T., Kahn, S., Levi, D.M., Mayer, R.E., McLaughlin, A.C., McNamara, D.S., Morris, M.C., Nahum, M., Newcombe, N.S., Panizzutti, R., **Prakash, R.S.,** Rizzo, A., Schubert, T.,

Seitz, A.R., Short, S.J., Singh, I., Slotta, J.D., Strobach, T., Thomas, M.S.C., Tipton, E., Tong, X., Vlach, H.A., Wetherell, J.L., Wexler, A., & Witt, C.M. (2019). Improving Methodological Standards in Behavioral Interventions for Cognitive Enhancement. *Journal of Cognitive Enhancement, 3(1),* 2-29. doi: https://doi.org/10.1007/s41465-018-0115-y

15. **Prakash, R.S.**, Schirda, B.*, Valentine, T., Crotty, M.**, & Nicholas, J. (2019). Emotion Dysregulation in Multiple Sclerosis: Impact on Symptoms of Depression & Anxiety. *Multiple Sclerosis & Related Disorders, 36,* 1-7. doi:10.1016/j.msard.2019.101399.

16. Fountain-Zaragoza, S.*, Samimy, S.*, Rosenberg, M., & **Prakash, R.S**. (2019). Connectome-Based Models Predict Attentional Control in Aging Adults. *NeuroImage. 186,* 1-13. doi:10.1016/j.neuroimage.2018.10.074.

17. Fountain-Zaragoza, S.*., Puccetti, N.**, Whitmoyer, P.*, & **Prakash, R.S**. (2018). Aging and attentional control: Exploring the roles of mind-wandering propensity and dispositional mindfulness. *Journal of the International Neuropsychological Society, 24(8),* 876-888. doi:10.1017/S1355617718000553.

18. Sharp, P.B., Sutton, B.P., Paul, E.J., Sherepa, N., Hillman, C.H., Cohen, N.J., Kramer, A.F., **Prakash, R.S.,** Heller, W., Telzer, E., & Barbey, A.K. (2018). Mindfulness training induces structural connectome changes in insula networks. *Scientific Reports. 8*(1)*,* 7929. doi:10.1038/s41598-018-26268-w.

19. Tan, A., Sullenbarger, B., **Prakash, R.S**., & McDaniel, J. (2018). Supplementation with eicosapentaenoic acid and docosahexaenoic acid reduces high levels of circulating proinflammatory cytokines in aging adults: a randomized, controlled study. *Prostaglandins, Leukotrienes & Essential Fatty Acids, 132,* 23-29. doi:10.1016/j.plefa.2018.03.010.

20. Fountain-Zaragoza, S.* & **Prakash, R.S.** (2017). Mindfulness training for healthy aging: Impact on attention, well-being, and inflammation. *Frontiers in Aging Neuroscience, 9,* 11. doi: 10.3389/fnagi.2017.00011.

21. **Prakash, R.S.**, Whitmoyer, P.*, Aldao, A., Schirda, B.*. (2017). Mindfulness and emotion regulation in older and young adults. *Aging and Mental Health, 21(1),* 77-87. doi:10.1080/13607863.2015.1100158.

22. Schirda, B.*, Valentine, T., Aldao, A., **Prakash, R.S.** (2016). Age-related differences in emotion-regulation strategies: Examining the role of contextual factors. *Developmental Psychology, 52(9),* 1370-80. doi:10.1037/dev0000194.

23. Fountain-Zaragoza, S.*, Londerée, A.**, Whitmoyer, P*, & **Prakash, R.S**. (2016). Dispositional mindfulness and the wandering mind: Implications for cognitive control

in older adults. *Consciousness and Cognition, 44,* 193-204. doi:10.1016/j.concog.2016.08.003.

24. Oberlin, L.E., Versytnen, T., Burzynska, A, Voss, M.W., **Prakash, R.S.**, Chaddock-Heyman, L., Wong, C., Fanning, J., Awick, N., Gothe, N., Phillips, S., Mailey, E., Ehlers, D., Olson, E., Wojcicki, T, McAuley, W., Kramer, A.F., Erickson, K.I. (2016). White matter integrity mediates the relationship between cardiorespiratory fitness and spatial working memory in older adults. *NeuroImage, 131*, 91-101. doi:10.1016/j.neuroimage.2015.09.053.

25. Schmalbrock, P., **Prakash, R.S.**, Schirda, B.*, Janssen, A.*, Yang, G.K., Russell, M., Knopp, M.V., Boster, A., Nicholas, J.A., Racke, M., Pitt, D. (2016). Basal ganglia iron in multiple sclerosis patients measured with 7T quantitative susceptibility mapping correlates with inhibitory control. *American Journal of Neuroradiology, 37(3),* 439-446. doi:10.3174/ajnr.A4599.

26. Schirda, B.*, Nicholas, J., & **Prakash, R. S.** (2015). Examining trait mindfulness, emotion dysregulation, and quality of life in multiple sclerosis. *Health Psychology*, *34(11),* 1107-15. doi: 10.1037/hea0000215.

27. Janssen, A.*, Boster, A., Lee, H., Patterson, B. A.**, & **Prakash, R. S.** (2015). The effects of video-game training on broad cognitive transfer in multiple sclerosis: A pilot randomized controlled trial. *Journal of Clinical and Experimental Neuropsychology*, 37(3), 285-302. doi: 10.1080/13803395.2015.1009366

28. Erickson, K. I., Leckie, R. L., Weinstein, A. M., Radchenkova, P, Sutton, B. P., **Prakash, R. S.**, Voss, M. W., Chaddock, L., McAuley, E., & Kramer, A. F. (2015). Education mitigates age-related decline in N-Acetylaspartate levels. *Brain and Behavior, 5*(3), e00311. doi: 10.1002/brb3.311

29. **Prakash, R. S.**, Hussain, M. A.**, & Schirda, B.* (2015). The role of emotion regulation and cognitive control in the association between mindfulness disposition and stress. *Psychology and Aging, 30*(1), 160-171. doi:10.1037/a0038544.

30. Lee, H., Boot, W. R., Baniqued, P. L., Voss, M. W., **Prakash, R. S.**, Basak, C., & Kramer, A. F. (2015). The Relationship between Intelligence and Training Gains Is Moderated by Training Strategy. *PloS One, 10*(4), e0123259. doi: 10.1371/journal.pone.0123259

31. **Prakash, R. S.**, Voss, M. W., Erickson, K. I., & Kramer, A. F. (2015). Physical activity and cognitive vitality. *Annual Review of Psychology*, *66*, 769-797. doi: 10.1146/annurev-psych-010814-015249.

32. Wong, C., Chaddock-Heyman, L., Voss, M.W., Burzynska, A.Z., Basak, C., Erickson, K.I., **Prakash, R.S.,** Szabo-Reed, A.S., Phillips, S.M., Wojcicki, T., Mailey, E.L., McAuley, E., & Kramer, A.F. (2015). Brain activation during dual-task

processing is associated with cardiorespiratory fitness and performance in older adults. *Frontiers in Aging Neuroscience, 7:154.* doi: 10.3389/fnagi.2015.00154.

33. Jaremka, L. M., Derry, H. M., Bornstein, R. A., **Prakash, R. S.**, Peng, J., Belury, M. A., Andridge, R., Malarkey, W. B., & Kiecolt-Glaser, J. K. (2014). Omega-3 supplementation and loneliness-related memory problems: Secondary analyses of a randomized controlled trial. *Psychosomatic Medicine*, *76*(8), 650-658. doi:10.1097/PSY.0000000000000104.

34. **Prakash, R. S.**, De Leon, A. A.*, Patterson, B. A.**, Schirda, B.*, & Janseen, A.* (2014). Mindfulness and the aging brain: A proposed paradigm shift. *Frontiers in Aging Neuroscience*, *6*(120), 1-17. doi:10.3389/fnagi.2014.00120.

35. Leckie, R.L., Oberlin, L. E., Voss, M. W., **Prakash, R. S.**, Szabo-Reed, A. N., Chaddock-Heyman, L., Phillips, S. M., Gothe, N. P., Mailey, E., Vieira-Potter, V. J., Martin, S. A. Pence, B. D., Lin, M., Parasuraman, R., Greenwood, P. M., Fryxell, K. J., Woods, J., McAuley, E., Kramer, A. F., & Erickson, K. I. (2014). BDNF mediates improvements in executive function following a 1-year exercise intervention. *Frontiers in Human Neuroscience*, *8, 985*. doi:10.3389/fnhum.2014.00985.

36. Janssen, A. L.*, Boster, A., Patterson, B. A.**, Abduljalil, A., & **Prakash, R. S.** (2013). Resting-state functional connectivity in multiple sclerosis: An examination of group and individual differences. *Neuropsychologia*, *51*(13), 2918-2929. doi:10.1016/j.neuropsychologia.2013.08.010.

37. Voss, M. W., Heo, S., **Prakash, R. S.**, Erickson, K. I., Alves, H., Chaddock, L., Szabo, A., Mailey, E., Wójcicki, T., White, S. M., Gothe, N., McAuley, E., Sutton, B., & Kramer, A. F. (2013). The influence of aerobic fitness on cerebral white matter integrity and cognitive function in older adults: Results of a one-year exercise intervention. *Human Brain Mapping, 34*(11), 2972-2985. doi:10.1002/hbm.22119.

38. Voss M. W., Erickson K. I., **Prakash R. S.**, Chaddock, L., Kim, J. S., Alves, H., Szabo, A. N., Phillips, S. M, Wójcicki, T. R., Mailey, E. L., Olson, E. A., Gothe, N., Vieira-Potter, V. V., Martin, S. A., Pence, B. D., Cook, M. D., Woods, J. A., McAuley, E., & Kramer, A. F. (2013). Neurobiological markers of exercise-related brain plasticity in older adults. *Brain, Behavior, and Immunity, 28*, 90-99. doi:10.1016/j.bbi.2012.10.021.

39. **Prakash, R. S.**, De Leon, A. A.*, Klatt, M., Malarkey, W., & Patterson, B. A.** (2013). Mindfulness disposition and default-mode network connectivity in older adults. *Social Cognitive and Affective Neuroscience, 8*(1), 112-117. doi:10.1093/scan/nss115.

40. Voss, M. W., Wong, C., Baniqued, P., Burdette, J. H., Erickson, K. I., **Prakash, R. S.,** McAuley, E., Laurienti, P., & Kramer, A. F. (2013). Aging brain from a network science perspective: something to be positive about? *PLoS One, 8*(11), e78345. doi:10.1371/journal.pone.0078345.

41. Lee, H., Voss, M. W., **Prakash, R. S.**, Boot, W., Vo, L. T. K., Basak, C, VanPatter, M., Gratton, G., Fabiani, M., & Kramer, A. F. (2012). Videogame training strategy-induced change in brain function during a complex visuomotor task. *Behavioural Brain Research, 232*(2), 348-357. doi:10.1016/j.bbr.2012.03.043.

42. Weinstein, A. M., Voss, M. W., **Prakash, R. S.**, Chaddock L., Szabo, A. N., White, S. M., Wojcicki, T. R., Mailey, E., McAuley, E., Kramer, A. F., & Erickson, K. I. (2012). The association between aerobic fitness and executive function is mediated by prefrontal cortex volume. *Brain, Behavior, and Immunity, 26*(5), 811-819. doi:10.1016/j.bbi.2011.11.008.

43. **Prakash, R. S.**, Heo, S., Voss, M. W., Patterson, B. A.**, & Kramer, A. F. (2012). Age-related differences in cortical recruitment and suppression: Implications for cognitive performance. *Behavioural Brain Research, 230*(1), 192-200. doi: 10.1016/j.bbr.2012.01.058.

44. Voss, M. W., **Prakash, R. S.**, Erickson, K. I., Boot, W. R., Basak, C., Neider, M. B., Simons, D. J., Fabiani, M., Gratton, G., & Kramer, A. F. (2012). Effects of training strategies implemented in a complex videogame on functional connectivity of attentional networks. *NeuroImage, 59*(1), 138-148. doi:10.1016/j.neuroimage.2011.03.052.

45. Chaddock, L., Erickson, K. I., **Prakash, R. S.**, Voss, M. W., VanPatter, M., Pontifex, M. B., Hillman, C. H., & Kramer, A. F. (2012) A functional MRI investigation of the association between childhood aerobic fitness and neurocognitive control. *Biological Psychology, 89*(1), 260-268. doi:10.1016/j.biopsycho.2011.10.017.

46. Erickson, K. I., Weinstein, A. M., Sutton B.P., **Prakash, R. S.,** Voss, M. W., Chaddock, L., Szabo, A. N., Mailey, E. L., White, S.M., Wojcicki, T. R., McAuley, E., Kramer, A. F. (2012) Beyond vascularization: Aerobic fitness is associated with N-acetylaspartate and working memory. *Brain and Behavior 2*(1), 32-41. doi:10.1002/brb3.30

47. Lee, H., Boot, W. R., Basak, C., Voss, M. W., **Prakash, R. S.**, Neider, M., Erickson, K. I., Simons, D. J., Fabiani, M., Gratton, G., Low, K. A., & Kramer, A. F. (2012). Performance gains from directed training do not transfer to untrained tasks. *Acta Psychologica, 139*(1), 146-158. doi:10.1016/j.actpsy.2011.11.003.

48. Verstynen, T. D., Lynch, B., Miller, D. L., Voss, M. W., **Prakash, R. S.,** Chaddock, L., Basak, C., Szabo, A., Olson, E. A., Wójcicki, T. R., Fanning, J., Gothe, N. P., McAuley, E., Kramer, A. F., & Erickson, K. I. (2012). Caudate nucleus volume mediates the link between cardiorespiratory fitness and cognitive flexibility in older adults. *Journal of Aging Research, 2012*, 939285. doi:10.1155/2012/939285.

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55. Vo, L. T. K., Walther, D. B., Kramer, A. F., Erickson, K. I., Boot, W. R., Voss, M. W., **Prakash, R. S.**, Lee, H., Fabiani, M., Gratton, G., Simons, D. J., Sutton, B. P., & Wang, M. Y. (2011). Predicting Individuals' Learning Success from Patterns of Pre-Learning MRI Activity. *PLoS One, 6*(1), e16093. doi: 10.1371/journal.pone.0016093

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65. Voss, M. W., Erickson, K. I., **Prakash, R. S.,** Chaddock, L., Malkowski, E., Alves, H., Kim, J. S., Morris, K. S., White, S. M., Wójcicki, T. R., Hu, L., Szabo, A. N., Klamm, E., McAuley, E., & Kramer, A. F. (2010). Functional connectivity: A source of variance in the association between cardiorespiratory fitness and cognition? *Neuropsychologia, 48*(5), 1394-1406. doi:10.1016/j.neuropsychologia.2010.01.005.

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72. Voss, M. W., Erickson, K. I., Chaddock, L., **Prakash, R. S.**, Colcombe, S. J., Morris, K. S., Doerksen, S., Hu, L., McAuley, E., & Kramer, A. F. (2008). Dedifferentiation in the visual cortex: An fMRI investigation of individual differences in older adults. *Brain Research, 1244*, 121-131. doi:10.1016/j.brainres.2008.09.051.

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adults: Effects of training on hemispheric asymmetry. *Neurobiology of Aging, 28(2),* 272-283. doi:10.1016/j.neurobiolaging.2005.12.012.

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81. Erickson, K. I., Colcombe, S. J., **Wadhwa, R.**, Bherer, L., Peterson, M. S., Scalf, P. E., & Kramer, A. F. (2005). Neural correlates of dual-task performance after minimizing task-preparation. *NeuroImage, 28*(4), 967-979. doi:10.1016/j.neuroimage.2005.06.047.

Chapters in Edited Books

1. **Prakash, R.S.**, Voss, M.W., Kramer, A.F. (2013). Physical Activity Effects on Brain and Behavior. In D.T. Stuss, & R.T. Knight (Eds.), *Principles of Frontal Lobe Function, 2nd Ed.* (pp. 694-722). New York: Oxford Press.

2. **Prakash, R.S.**, Janssen, A.L.*, Derry, H.*(2015). Neuropsychological Assessment in Health Psychology. In Y. Benyamini, M. Johnston, & E.C. Karademas (Eds.), *Assessment in Health Psychology*. Göttingen/Boston: Hogrefe.

3. **Prakash, R.S**. (2018). Physical activity. In M. Bornstein (Ed.), *The SAGE encyclopedia of lifespan human development* (pp. 1639-1641). Thousand Oaks, CA: SAGE Publications, Inc.

4. Whitmoyer, P.* & **Prakash, R.S**. (2018). Emotion Dysregulation and Aging. In T. Beauchaine & S. Crowell (Eds.), *Oxford Handbook of Emotion Dysregulation.*

Peer-Reviewed Conference Proceedings

1. Pereira, F., Walz, J., Cetingul, H.E., Surdarsky, S., Nadar, M., **Prakash, R.** (2013). Creating group-level functionally-defined atlases for diagnostic classification. *Proceedings of the International Workshop on Pattern Recognition in NeuroImaging.*

Potential publications/Preprints ([+]mentored postdoctoral scholar; **mentored graduate student; *mentored undergraduate student/research assistant)

1. **Prakash, R.S.,** McKenna, M.R*., Gbadeyan, O.[+], Shankar, R.*, Andridge, R., Scharre, D.W. (under review). A whole-brain functional connectivity model of Alzheimer's disease pathology. *Brain Communications.* Preprint DOI: https://doi.org/10.1101/2021.01.13.21249597.
2. **Prakash, R.S.,** McKenna, M.R.*, Gbadeyan, O.[+], Andridge, R.*, Scharre, D.W. (under review). p-tau/Aβ42 Ratio and Cognitive Decline across the Spectrum of Alzheimer's Disease. *Journal of International Neuropsychological Society.* Preprint DOI: https://doi.org/10.1101/2020.10.13.20211375
3. Fountain-Zaragoza, S.*, Manglani, H.*, Rosenberg, M. D., Andridge, R., & **Prakash, R.S.** (under review). Defining a connectome-based predictive model of attentional control in aging. *Cerebral Cortex Communications.*
4. Dignum, T.*, Liu-Ambrose, T., **Prakash, R.S.,** Eng, J., Best, J., Hsu, C.L., Munkacsy, M, & Dian, L. (under review). Mindful Meditation: A Pilot Randomized Controlled Trial to Examine Feasibility and Efficacy in Older Adults with Chronic Stroke. *Mindfulness.*
5. Whitmoyer, P.*, Fisher, M.E. *, Duraney, E.J. *, Manzler, C. **, Isaacowitz, D., Andridge, R., & **Prakash, R.S.** (under review). Age differences in emotion regulation strategy use and flexibility in daily life. *Developmental Psychology.*
6. **Prakash, R.S.,** Manglani, H., Duraney, E., Shankar, A., Fisher, M., Janssen, A., Petosa, R., Nicholas, J., & Prakash, R.S. (under review). **TRAC**king Health Behavior in People with **M**ultiple **S**clerosis (TRAC-MS): Study Protocol and Description of the Baseline Sample. *Contemporary Clinical Trials Communication.*
7. Fisher, M.E., Duraney, E., Friess, K., Whitmoyer, P., Andridge, A. & **Prakash, R.S.** (under review). The relationship between trait mindfulness and emotion regulation flexibility in daily life: The moderating role of age. *Mindfulness.*
8. Kelly, N.F., Mansfield, C.J., Schneider, E., Moeller, J.C., Bleacher, J.S**., Prakash, R.S.,** Briggs, M.S. (under review). Brain Activation Patterns are Altered by Low Back Pain and Cause Different Responses to Sham and Real Dry Needling Therapies: A Systematic Review of fMRI Studies. *Pain*

RESEARCH FUNDING

Ongoing

1. 07/2017- 06/2022. Mindfulness training for mitigating age-related cognitive decline. National Institutes of Health. R01
   PI: **Prakash, RS;** Co-Is: Kiecolt-Glaser, J, Andridge, R

2. 09/2021 – 09/2022. Administrative Supplement to increase representation in a mindfulness trial.
   PI: **Prakash, RS**; Co-I: Wright, K

Completed

1. 10/2016- 09/2021. A physical activity-based tracking intervention to enhance cognitive and neural plasticity. National Multiple Sclerosis Society. ($631,261, Total Award) Research Grant.
   PI: **Prakash, RS;** Co-I: Petosa, R.

1. 05/2019 – 05/2020. Mind-Body Interventions for Healthy Aging. Women & Philanthropy, Ohio State University ($43, 500 Total Award) Research Grant.
   PI: **Prakash, RS**

2. 12/2019 – 05/2020. Deriving a whole-brain functional connectivity neuromarker in Alzheimer's disease. OSU Center for Clinical and Translational Science. ($ 15,000 Total Award) Research Grant.
   PI: **Prakash, RS**

3. 08/2018 – 07/2019. Impact of Virtual Reality on Adherence to Mindfulness Practices: A Proof-of Concept Randomized Controlled Trial. Chronic Brain Injury Initiative, Ohio State University ($25, 000, Total Award) Research Grant.
   PI: Bockbader, M.; Co-Is: **Prakash, RS**, Melsop, S, Worthen-Chaudhari

4. 04/2014- 12/2015. Mindfulness based stress reduction and emotion regulation in multiple sclerosis. National Multiple Sclerosis Society. ($44,000, Total Award) Research Grant.
   PI: **Prakash, RS**

5. 06/2011 – 12/2015. Tysabri and iron-associated gray matter neurodegeneration in multiple sclerosis. BioGen Inc. ($265, 802, Total Award) Research Grant.
   PI: Schmalbrock, PMF, Pitt, D; Co-Is: **Prakash, RS**, Nicholas, J

6. 12/2009 – 12/2010. Effects of low-dose mindfulness training on cognitive and brain plasticity. U.S. Department of Health and Human Services. ($25,000, Total Award) Research Grant.
   PI: **Prakash, RS**; Co-Is: Klatt, M, Malarkey, W

7. 09/2011 – 09/2012. Functional connectivity of the resting state networks in multiple sclerosis. National Multiple Sclerosis Society. ($43,729, Total Award) Research Grant.
   PI: **Prakash, RS**

8. 12/2011 – 04/2013. Examining effects of DDR on cognitive and brain plasticity in MS. OSU Center for Clinical and Translational Science. ($29, 987, Total Award) Research Grant.
   PI: Kloos, AD; Co-Is: Kegelmeyer, DA, Larsen, DS, and **Prakash, RS**

SCHOLARLY PRESENTATIONS
Selected Invited Presentations

1. **Prakash, R.S.** (May, 2022). Emotion Dysregulation in People with Multiple Sclerosis. Division of Multiple Sclerosis Clinical Talk Series. University of Pennsylvania.

2. **Prakash, R.S.** (March, 2022). *Towards brain-based mechanistic and endpoint markers of treatment gains.* LES FEMMES EN NEUROSCIENCES (Women in Neuroscience) Seminar Series. University of Montreal.

3. **Prakash, R.S.** (March, 2022). *Mindfulness Meditation: Impact on Attentional Control and Emotion Dysregulation.* Brandeis University.

4. **Prakash, R.S.** (February, 2022). *Building a Research Career in Neuropsychology.* Invited Symposium at the 50th Annual Meeting of the International Neuropsychological Society.

5. **Prakash, R.S.** (February, 2022). *Mindfulness Meditation: Impact on Attentional Control and Emotion Dysregulation.* Georgia Tech University.

6. **Prakash, R.S.** (December, 2021). *Towards brain-based mechanistic and endpoint markers of treatment gains.* Center for Cognitive and Behavioral Brain Imaging Research Day, The Ohio State University.

7. **Prakash, R.S.** (November, 2021). *Mindfulness Meditation: Impact on Attentional Control and Emotion Dysregulation.* Northeastern University.

8. **Prakash, R.S.** (September, 2021). *The Promise of Mindfulness.* E-Support Health.

9. **Prakash, R.S.** (June, 2021). *Connectome-Based Models of Functional Connectivity Predict Cognitive Decline in Multiple Sclerosis.* Neuroimmunological Colloquium at CharitéUniversitätsmedizin, Berlin, Germany.

10. **Prakash, R.S.** (October, 2020). *Mindfulness Meditation and Cognitive Augmentation*. National Academy of Neuropsychology Conference CE Collection Webinar Series.

11. **Prakash, R.S**. (October, 2020). *Promoting Cognitive and Affective Health Through Mindfulness Meditation*. International Neuropsychological Society Brain Injury SIG Meeting.

12. **Prakash, R.S.** (June, 2020). *A whole-brain functional connectivity network of Alzheimer's disease pathology*. Neurology Grand Rounds. Ohio State University, Columbus, OH.

13. **Prakash, R.S.** (May, 2020). *Emotional Wellness in Traumatic Brain Injury*. NeuroNights, Ohio State University, Columbus, OH.

14. **Prakash, R.S.** (January, 2020). *Building (and failing and then rebuilding) a Programmatic Line of Research: A 10-year Case Study.* Department of Psychology, University of Cincinnati. Cincinnati, OH.

15. **Prakash, R.S.** (August, 2019). *Mindfulness for an Aging Society*. Invited talk at the Second Annual Singapore Mindfulness Conference. Brahms Center, Singapore.

16. **Prakash, R.S.** (August, 2019). *Mindfulness for an Aging Society*. Invited talk at the Programme in Neuroscience & Behavioral Disorders, Duke-National University of Singapore Medical School, Singapore.

17. **Prakash, R.S.** (April, 2019). *Mindfulness for the Aging Brain.* Invited talk at the Ohio State University's Women Group. Columbus, OH.

18. **Prakash, R.S.** (March, 2019). *Cognitive Dysfunction in Multiple Sclerosis*. Invited talk at Genzyme-Sanofi Professional Meeting. Cincinnati, OH.

19. **Prakash, R.S**. (February, 2019). *Practicing Mindfulness for Healthy Aging in Women*. Invited Talk at the Women & Philanthropy Annual Grant Review Forum, Naples, FL.

20. **Prakash, R.S.** (November, 2018). *Depression in Multiple Sclerosis*. Invited talk at Genzyme-Sanofi Professional Meeting. Cincinnati, OH.

21. **Prakash, R.S.** (September, 2018). *Mindfulness Meditation: Impact on Behavioral and Neural Metrics of Attentional Control.* Invited talk at the Neuroscience Colloquium Series, Penn State University, State College, PA.

22. **Prakash, R.S.** (May, 2018). *Neuropsychology of Multiple Sclerosis*. Invited Presidential Symposium at the Annual Meeting of the Consortium of MS Centers, Nashville, Tennessee.

23. **Prakash, R.S**. (February, 2018). *Healthy Mind, Healthy Aging: A Preventative Lifestyle-Based Approach to Reducing Age-Related Cognitive Decline.* Invited talk at the Alzheimer's Disease Seminar Series. College of Medicine, Ohio State University, Columbus, Ohio.

24. **Prakash, R.S.** (February, 2018). *Methodological Considerations in Neuropsychological Rehabilitation*. Invited talk at the Psychiatry Grand Rounds, Ohio State University, Columbus, Ohio.

25. **Prakash, R.S**. (November, 2017). *Mindfulness for the Aging Brain*. Invited talk at the Science Sunday. College of Arts and Sciences, Ohio State University, Columbus, Ohio.

26. **Prakash, R.S**. (October, 2017). *Leveraging Neuroscience for Clinical Psychology*. Invited talk at the Data Analytics Round-Table Discussion. Translational Data Analytics Meeting, Ohio State University.

27. **Prakash, R.S.** (September, 2017). *Role of Psychology in Research and Care of Multiple Sclerosis.* Invited talk at the University of Miami Multiple Sclerosis Center, Miami, Florida.

28. **Prakash, R.S.** (August, 2017). *Use of Psychological and Brain Sciences for Reducing the Burden of Neurodegenerative Disorders.* Invited talk at the Humanities and Cognitive Sciences High School Summer Institute. Ohio State University, Columbus, Ohio.

29. **Prakash, R.S.** (June, 2017). *Promoting Cognitive Health in Multiple Sclerosis.* Invited talk at the bi-annual Scarlet & Gray MS Education Series, Columbus, Ohio.

30. **Prakash, R.S.** (May, 2017). *Mindfulness Meditation and Cognitive and Emotional Augmentation.* Invited talk at the Global Brain Health Summit, Ohio State University, Columbus, Ohio.

31. **Prakash, R.**S. (April, 2017). *Positive neuropsychology: Lessons from a decade of investigation on improving cognitive health.* Invited talk at Clinical Psychology Brown Bag, Ohio University, Athens, Ohio.

32. **Prakash, R.S.** (April, 2017). *Mindfulness and Healthy Aging: Implications for Attentional Control and Psychological Well-Being.* Invited talk at Psychology Enrichment Series, Department of Psychology, Ohio State University, Columbus, Ohio.

33. **Prakash, R.S.** (February, 2017). *Mindfulness Meditation and Healthy Aging: Impact on Attentional Control and Emotion Regulation*. Invited talk at Clinical Psychology Brown Bag, Yale University, New Haven, CT.

34. **Prakash, R.S.** (February, 2017). *Mindfulness and Healthy Aging*. Invited talk at the Psychology Brown Bag, Pace University, Westchester, New York.

35. **Prakash, R.S.** (November, 2016). *Psychological and Brain Health in Multiple Sclerosis*. Presented at the bi-annual Scarlet & Gray MS Education Series, Columbus, Ohio.

36. **Prakash, R.S.** (October, 2016). *Mindfulness for the Caregiver.* Presented at the Parkinson's Fall Symposium, Columbus, Ohio.

37. **Prakash, R.S.** (September, 2016). *Neural and Behavioral Correlates of Affective Symptom Rehabilitation in Multiple Sclerosis*. Presented at the 21st Annual Conference of Rehabilitation in MS, London, United Kingdom.

38. **Prakash, R.S.** (June, 2016). *Cognition and Rehabilitation in Multiple Sclerosis.* Presented at the bi-annual Scarlet & Gray MS Education Series, Columbus, Ohio.

39. **Prakash, R.S.** (June, 2016). *Psychological Wellness in Multiple Sclerosis*. Presented at the bi-annual Scarlet & Gray MS Education Series, Columbus, Ohio.

40. **Prakash, R.S.** (November, 2015). *Mindfulness and the Aging Brain.* Presented at the Brain & Cognition Brown Bag, University of Illinois at Urbana-Champaign, Urbana, IL, United States.

41. **Prakash, R.S.** (April, 2015). *Mindfulness and the Aging Brain.* Presented at the Midwestern Psychological Association Annual Conference, Chicago, IL, United States.

42. **Prakash, R.S.** & Janssen, A. (June, 2013). *Resting-state functional connectivity in multiple sclerosis: A network approach*. Presented at the Center for Cognitive and Behavioral Brain Imaging Users' Meeting, The Ohio State University, Columbus, OH, United States.

43. **Prakash, R.S.** (April, 2012). *Influence of Healthy Lifestyle Factors on Affective and Cognitive Functioning*. Presented at Health and Rehabilitation Sciences Seminar Series, The Ohio State University, Columbus, OH, United States.

44. **Prakash, R.S.** (October, 2011). *Influence of Healthy Lifestyle Factors on Affective and Cognitive Functioning*. Presented at Ohio Physical Therapy Association Annual Meeting, Columbus, OH, United States.

45. **Prakash, R.S.** (September, 2011). Physi*cal activity, brain plasticity, and aging*. Presented at First International Workshop on Cognitive and Working Memory Training. University of Maryland, College Park, MD, United States.

46. **Prakash, R.S.** (February, 2011). *Minding your brain and walking every day, keeps the doctor away!* Presented at the Psychology Enrichment Series, Department of Psychology, Ohio State University, Columbus, OH, United States.

47. **Prakash, R.S.** (January, 2011). *Cardiorespiratory fitness and cognitive and brain plasticity in older adults.* Presented at the Center for Cognitive Science, Ohio State University, Columbus, OH, United States.

48. **Prakash, R.S.** (December, 2008). *Understanding cognitive and brain activation changes in multiple sclerosis.* Department of Psychology, Rutgers University, New Brunswick, NJ, United States.

49. **Prakash, R.S.** (November, 2008). *Understanding cognitive and brain activation changes in multiple sclerosis.* Department of Psychology, Ohio State University, Columbus, OH, United States.

50. **Prakash, R.S.** (2008). *An fMRI investigation of individual differences in multiple sclerosis.* Kessler Foundation Hospital, Newark, NJ, United States.

51. **Prakash, R.S.** (2007). *Cortical recruitment in Multiple Sclerosis: An fMRI investigation of individual differences*. Presented at the Clinical/Community Brown Bag Series,

Department of Psychology, University of Illinois at Urbana-Champaign, Champaign, IL, United States.

52. **Prakash, R.S.** (2007). *Cardiorespiratory fitness: A predictor of cortical plasticity in Multiple Sclerosis*. Presented at the Beckman Institute Graduate Seminar Series, Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign, Urbana, IL, United States.

Selected Oral Presentations

1. **Prakash, R.S.,** Manglani, H., Fountain-Zaragoza, S., Shankar, A., & Evans, D. (2019). *Using connectome-based predictive modeling to derive neuromarkers of cognition in MS*. Presented at the Annual Meeting of the Consortium of MS Centers, Seattle, WA, United States.

2. **Prakash, R.S.,** Schirda, B., Lee, H., & Nicholas, J. (2017). *Mindfulness training vs. adaptive cognitive training: Impact on emotion dysregulation and cognitive functioning*. Presented at the Annual Meeting of the Consortium of MS Centers, New Orleans, LA, United States.

3. **Prakash, R.S.,** & Fountain-Zaragoza, S., Oral Presenter (2016). *Mindfulness and Attention: Current State-of-Affairs and Future Directions*. Presented at the 2016 International Symposium for Contemplative Sciences, San Diego, CA, United States.

4. **Prakash, R.S.**, Schirda, B., Aldao, A., & Whitmoyer, P., Oral Presenter (2015). *Role of strategy use in the association between mindfulness disposition and emotion regulation.* Presented at the 27th Annual Association for Psychological Science Annual Convention, NY, United States.

5. **Prakash, R. S.**, Symposium Chair, Oral Presenter. (2013) *Interventions for enhancing behavioral and neural plasticity in older adults*. Presented at International Neuropsychological Society's 41st Annual Meeting, Waikoloa, HI, United States.

6. **Prakash, R. S.,** Klatt, M., & Malarkey, W., Oral Presenter. (2013) *Mindfulness Training and Neural Indices of Emotional and Cognitive Control*. Presented at International Neuropsychological Society's 41st Annual Meeting, Waikoloa, HI, United States.

7. **Prakash, R. S.,** Klatt, M., Malarkey, W., & De Leon, A. A., Oral Presenter. (2012). *Mindfulness training and connectivity of large-scale networks*. Presented at Cognitive Aging Conference, Atlanta, GA, United States.

8. **Prakash, R. S.**, Oral Presenter (2009). *Cardiorespiratory fitness is inversely associated with cortical atrophy in multiple sclerosis*. Presented at Whitaker Research Track at 2009 Annual Meeting of the Consortium of Multiple Sclerosis Centers, Atlanta, GA, United States.

9. **Prakash, R. S.**, Snook, E. M., Lewis, J., Motl, R. W., & Kramer, A. F., Oral Presenter (2008). *Cognitive impairments in relapsing remitting multiple sclerosis: A quantitative investigation*. Presented at the 2008 Annual Meeting of the Consortium of Multiple Sclerosis Centers, Denver, CO, United States.

10. **Prakash, R. S.**, Snook, E. M., Motl, R. W., & Kramer, A. F., Oral Presenter (2008). *Material-specific recruitment of prefrontal cortices in multiple sclerosis*. Presented at International Neuropsychological Society's 36th Annual Meeting, Waikoloa, HI, United States.

11. **Prakash, R. S.,** Erickson, K. I., Snook, E. M., Colcombe, S. J., Motl, R. W., & Kramer, A. F., Oral Presenter (2007). *Altered patterns of brain activation in Multiple Sclerosis during response inhibition: An fMRI investigation.* Presented at International Neuropsychological Society's 35th Annual Meeting, Portland, OR, United States.

PROFESSIONAL SERVICES

Standing Grant Reviewer

2018 – 2020	Member, Pilot Grants Committee, National Multiple Sclerosis Society
2019 – Present	Cognition & Perception Study Section, National Institutes of Health

Ad hoc Grant Reviewer

2019	NCCIH Reviewer, Training and Education Review Panel (2019)
2017 – 2019	NIH Reviewer, Pilot Clinical Trials For The Spectrum of Alzheimer's Disease
2018	NASA Sensory Stimulation Panel
2018	Swedish Foundation for Humanities and Social Sciences
2018	NIH Reviewer, Cognition & Perception
2017	NIH Reviewer, Research on Decision Making in Aging and Alzheimer's Disease
2013	Multiple Sclerosis Society, UK
2011	Michael Smith Foundation For Health Research, Canada
2011	Netherland Organization for Scientific Research
2010	Indo-US Technology Forum

Consulting Editorial Board

2020	Journal of International Neuropsychological Society

Ad hoc Manuscript Referee

Aging, Neuropsychology, and Cognition, American Journal of NeuroRadiology, Biological Psychology, Biological Psychiatry, Behavioral Brain Research, BMC Alternative and Complementary Medicine, Brain and Cognition, Brain Connectivity, Cognitive, Affective, & Behavioral Neuroscience, Cerebral Cortex, Current Opinion in Behavioral Sciences, European Journal of Neurology, Frontiers in Aging Neuroscience, Frontiers in Human Neuroscience, Health Psychology, Human Brain Mapping, International Journal of Obesity, Journal of American Geriatrics Society, Journal of Applied Gerontology, Journal of Clinical and Experimental

Neuropsychology, Journal of Gerontology :Psychological Sciences, Journal of Gerontology: Biological Sciences, Journal of International Neuropsychological Society, Journal of Cognitive Neuroscience, Medicine & Science in Sports & Exercise, National Indian Organization, NeuroImage, Neuropsychologia, Neurobiology of Aging, Neuroscience, Nutritional Neuroscience, Neurorehabilitation and Neural Repair, Perspectives on Psychological Science, Physiology and Behavior, PLoS One, RoyalFocus

Committee Services

National

2022–Present	Chair, Special Interest Group Committee, International Neuropsychological Society
2020–2022	Special Interest Group Liasion, International Neuropsychological Society
2018–Present	Wellness Research Working Group, National Multiple Sclerosis Society
2018–2022	Science Committee, International Neuropsychological Society
2019–2020	Awards Chair, Division 20, American Psychological Association
2018–2019	Awards Co–Chair, Division 20, American Psychological Association
2018–2020	Div. 20 Executive Committee Member, American Psychological Association

Local

2022 – Present	ASC Faculty Committee on Information Technology, OSU
2021 – Present	Faculty Research and Creative Expression Committee (FRC), OSU
2020 – 2021	Department of Radiology Chair Search Committee, OSU
2019 – Present	Planning Committee, CCBBI Research Day, OSU
2019 – 2021	Alzheimer's Research Center on Excellence Director Search Committee, OSU
2017–2019	Planning Committee, Global Brain Health Summit, OSU
2017–2019	Executive Committee, Ross Center for Brain Health &Performance, OSU
2017–2019	Speakers Committee Chair, Department of Psychology, OSU
2011–2019	CCBBI Management Committee, College of Arts & Sciences, OSU
2017–2018	Clinical Neuroscience Search Committee Chair, Department of Psychology, OSU
2016–2018	Advisory Board, Department of Psychology, UIUC
2015 – 2016	Chronic Brain Injury Search Committee, Department of Psychology, OSU
2014–2015	Admissions Committee, Department of Psychology, OSU
2014–2015	Equipment Committee, Department of Psychology, OSU
2013–2014	Speakers Committee, Department of Psychology, OSU
2013–2014	Social Neuroscience Search Committee, Department of Psychology, OSU
2012–2013	Department Library Liaison, Department of Psychology, OSU
2011–2012	Speech and Hearing Sciences Search Committee, OSU
2011–2012	Human Neuroscience Search Committee, Department of Psychology, OSU
2010–2013	Awards Committee, Department of Psychology, OSU
2010–2011	Human Neuroscience Search Committee, Department of Psychology, OSU

2009–2010	Integrative Neuroscience Search Committee, Department of Psychology, OSU

Professional Memberships

American Psychological Society
American Psychological Association
International Neuropsychological Society
Organization for Human Brain Mapping