Monika Lohani Ph.D.

Assistant Professor of Cognition and Neural Science · Department of Psychology ·
University of Utah · 380 S 1530 E BEHS 1003 · Salt Lake City · UT 84112
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Education and Training

Postdoctoral Research Associate   2014-2016
Department of Psychology
Yale University, USA

PhD, MA   2008-2014
Psychology
Department of Psychology
Brandeis University, USA

MA   2006-2008
Cognitive Science
Centre of Behavioural and Cognitive Sciences
University of Allahabad, India

BA   2003-2006
Psychology
Mahatama Jyotiba Phule Rohilkhand University, India

Professional Appointments

Affiliate Faculty   2024-present
Natural History Museum of Utah
University of Utah

Assistant Professor   2023-present
Department of Psychology
University of Utah

Affiliate Faculty   2023-present
Global Change and Sustainability Center
University of Utah

Assistant Professor   2018-2023
Department of Educational Psychology
University of Utah

Adjunct Assistant Professor   2019-2023
Department of Psychology
University of Utah

Research Assistant Professor   2018
Department of Psychology
University of Utah

Lead Research Scientist   2017-2018
Department of Engineering and Analysis

The MITRE Corporation

Chief Scientist, Human-Machine Social Systems Lab 2016-2017
Ball Aerospace, Systems Engineering Solutions
Supporting Air Force Research Lab

Research Interests

Applied cognition · Affective regulation · Real-world stressors ·
Psychophysiology · Multi-method assessment · Evidence-based interventions

Publications

^Undergraduate *Graduate **Post-doctoral trainees

Peer-reviewed Journals and Proceedings

1. **Lohani, M.**, Bryan, C.J., Elsey, J. S.* , Dutton, S.* , Findley, S.P.* , Langenecker, S.A., West, K.* , & Baker, J.C. (2024). Collaboration matters: A randomized controlled trial of collaboration level in suicide risk assessment and intervention. *Journal of Affective Disorders.* https://doi.org/10.1016/j.jad.2024.06.004 [Impact factor (IF): 4.9].

2. **Lohani, M.**, Cooper, J., McDonnell, A., Erickson, G., Simmons, T., Carriero, A., Crabtree, K., & Strayer, D. L. (*in press*). Reliable but multi-dimensional cognitive demand in operating partially automated vehicles: Implications for real-world automation research. *Cognitive Research: Principles and Implications* [IF: 4.1].

3. Janney, B. A.**, Zummo, L., & **Lohani, M.** (2024). Shifting the desired outcome from climate literacy to climate agency: Education that empowers civic leaders. *Interdisciplinary Journal of Environmental and Science Education*, 20(3), e2412. https://doi.org/10.29333/ijese/14657

4. **Lohani, M.**, Pfund, G. N.*, Bono, T., & Hill, P. L. (2023). Starting school with purpose: Self-regulatory strategies of first-semester university students. *Applied Psychology: Health and Well-Being.* https://doi.org/10.1111/aphw.12407 [IF: 7.521].

5. McDonnell, A.*, Simmons, T., Erickson, G., **Lohani, M.**, Cooper, J., & Strayer, D.L. (2023). This is your brain on autopilot: Neural indices of driver workload and engagement during partial vehicle automation. *Human Factors.* https://doi.org/10.1177/00187208211039091 [IF: 2.888].

6. **Lohani, M.**, Dutton, S.* , & Elsey, J. S.* (2022). A day in the life of a college student during the COVID-19 pandemic: An experience sampling approach to emotion regulation. *Applied Psychology: Health and Well-Being.* https://doi.org/10.1111/aphw.12337 [IF: 7.521].

7. Crandell, H. A.* , Silcox, J. W.*, Ferguson, S. H., **Lohani, M.**, & Payne, B. R. (2022). The effects of captioning errors, background noise, and hearing loss on memory for text-captioned speech. *Journal of Speech, Language, and Hearing Research*, 1-27. https://doi.org/10.1044/2022_JSLHR-21-00416 [IF: 2.674].

8. Aina, D.*, Poitras, E., & **Lohani, M.** (2022). Detection of student confusion in MOOCs: Feature extraction methods for EEG signal processing. Proceedings of the *American Educational Research Association.*

9. **Lohani, M.**, Cooper, J., Erickson, G., Simmons, T., McDonnell, A.*, Crabtree, K., & Strayer, D.L. (2021). No difference in arousal or cognitive demands between manual and partially automated driving: A multi-method on-road study. *Frontiers in Neuroscience.* 15, 627. https://doi.org/10.3389/fnins.2021.577418 [IF: 5.152].

10. Payne, B.R., Silcox, J.*, Lash, A., Ferguson, S.H., & **Lohani, M.** (2021). Text captioning buffers against the effects of background noise and hearing loss on memory for speech. *Ear and Hearing.* DOI://10.1097/AUD.0000000000001079 [IF: 3.57].

11. Stanley, J., Eris, O., & **Lohani, M.** (2021). A conceptual framework for machine self-presentation and trust. *International Journal of Humanized Computing and Communication.* https://doi.org/10.35708/HCC1869-148366

12. **Lohani, M.**, McElvaine K.*, Payne, B.R., Mitcheom, K., & Britton, W. (2020). A longitudinal training study to delineate the specific causal effects of open monitoring versus focused attention techniques on emotional health. *Complementary Therapies in Medicine*, 53, 102525. https://doi.org/10.1016/j.ctim.2020.102525 [IF: 2.446].

13. **Lohani, M.**, Cooper, J., Erickson, G., Simmons, T., McDonnell, A.*, Crabtree, K., & Strayer, D.L. (2020). Driver arousal and workload under partial vehicle automation: A pilot study. Proceedings of the *Human Factors and Ergonomics Society Annual Meeting.* https://doi.org/10.1177/1071181320641471.

14. Stanley, J., Eris, O., & **Lohani, M.** (2020). Toward a framework for machine self-presentation: A survey of self-presentation strategies in human-machine interaction studies. *IEEE Computer Society Press.* https://doi.org/10.1109/HCCAI49649.2020.00007

15. **Lohani, M.**, Payne B.R., & Strayer D. L. (2019). A review of psychophysiological measures in driving research to assess cognitive state in real-world context. *Frontiers in Human Neuroscience.* https://doi.org/10.3389/fnhum.2019.00057. [IF: 3.209]. [1]

16. Purcell, J.*, **Lohani, M.**, Musket, C., Hay, A. C., Isaacowitz, D. M., & Gruber, J. (2018). Emotional gaze preferences using eye-tracking in remitted bipolar I disorder. *International Journal of Bipolar Disorders.* doi:org/10.1186/s40345-018-0123-y [IF: 4.34].

17. **Lohani, M.**, Payne, B.R., & Isaacowitz, D. M. (2018). Emotional coherence in early and later adulthood during sadness reactivity and regulation. *Emotion.* 18(6), 789-804. doi: 10.1037/emo0000345 [IF: 4.329].

18. Chit-Tegmark, M.**, **Lohani, M.**, & Scheutz, M. (2019). Gender effects in perceptions of robots and humans with varying emotional intelligence. Proceedings of the *ACM/IEEE International Conference on Human Robot Interaction.* doi:10.1109/HRI.2019.8673222.

19. Biondi, F., **Lohani, M.**, Hopman, R.*, Mills, S., Cooper, J., & Strayer, D. L. (2018). 80 MPH and out-of-the-loop: Effects of real-world semi-automated driving on driver workload and arousal. Proceedings of the *Human Factors Ergonomic Society.* doi:org/10.1177/1541931218621427.

20. Leite, I., McCoy, M., **Lohani, M.**, Ullman, D.^ , Salomons, N.^, Stokes, C., Rivers, S., & Scassellati, B. (2017). Affective narratives with robots: The impact of interaction context and individual differences on story recall and emotional understanding. *Frontiers in Robotics and AI* 4, 29. doi:10.3389/frobt.2017.00029 [IF: 4.331].

21. Fan, L.*, Scheutz, M., **Lohani, M.**, McCoy, M., & Stokes, C. (2017). Do we need emotionally intelligent artificial agents? First results of human perceptions of emotional intelligence in humans compared to robots. *Lecture Notes in Artificial Intelligence*, 10498, 129-141. doi: 10.1007/978-3-319-67401-8_15 [IF: 1.363].

22. **Lohani, M.**, Stokes, C. K., Oden, K. B., Frazier, S. J., Landers, K. J., Craven, P. L., Lawton, D., McCoy, M., & Macannuco, D. J. (2017). The impact of non-technical skills on trust and stress. Proceedings of the 2017 *ACM/IEEE International Conference on Human-Robot Interaction*, 191-192. doi:10.1145/3029798.3038321.

23. **Lohani, M.**, Stokes, C., Dashan, N.^, McCoy, M., Bailey, C. A., & Rivers, S. E. (2017).

A framework for human-agent social systems: The role of non-technical factors in operation success. Proceedings of *Advances in Human Factors in Robots and Unmanned Systems*, 137-148. doi:10.1007/978-3-319-41959-6_12.

24. **Lohani, M.**, Stokes, C., McCoy, M., Bailey, C. A., Joshi, A.^, & Rivers, S. E. (2016). Perceived role of physiological sensors impacts trust and reliance on robots. Proceedings of 25th *IEEE International Symposium on Robot and Human Interactive Communication*, 513-518. doi:10.1109/roman.2016.7745166.

25. **Lohani, M.**, Stokes, C., McCoy, M., Bailey, C. A., & Rivers, S. E. (2016). Social interaction moderates human-robot trust-reliance relationship and improves stress coping. Proceedings of 11th *ACM/IEEE International Conference on Human-Robot Interaction*, 471-472. doi:10.1109/HRI.2016.7451811.

26. Leite, I., McCoy, M., **Lohani, M.**, Salomons, N.^ , McElvaine, K.*, Stokes, C., Rivers, S., & Scassellati, B. (2016). Autonomous disengagement classification and repair in multiparty child-robot interaction. Proceedings of 25th *IEEE International Symposium on Robot and Human Interactive Communication*, 525-532. doi:10.1109/roman.2016.7745168.

27. Oden, K., **Lohani, M.**, McCoy, M., Crutchfield, J., & Rivers, S. (2015). Embedding emotional intelligence into military training contexts. *Procedia Manufacturing*, 3, 4052-4059. doi:10.1016/j.promfg.2015.07.976.

28. Leite, I., McCoy, M., **Lohani, M.**, Ullman, D.^ , Salomons, N.^, Stokes, C., Rivers, S., & Scassellati, B. (2015). Emotional storytelling in the classroom: Individual versus group interaction between children and robots. Proceedings of 10th *Annual ACM/IEEE International Conference on Human-Robot Interaction*, 75-82. doi:10.1145/2696454.2696481.

29. **Lohani, M.** & Isaacowitz, D.M. (2014). Age differences in managing response to sadness elicitors using attentional deployment, positive reappraisal, and suppression. *Cognition & Emotion*, 28(4), 678–697. doi:10.1080/02699931.2013.853648 [IF: 2.678].

30. Stanley, J. T., **Lohani, M.**, & Isaacowitz, D. M. (2014). Age-related differences in understanding socially inappropriate humor. *Psychology and Aging*, 29(3), 528-541. doi:10.1037/a0036666 [IF: 3.34].

31. **Lohani, M.**, Gupta, R., & Srinivasan, N. (2013). Cross-cultural evaluation of the International Affective Picture System on an Indian sample. *Psychological Studies*, 58(3), 233-241 [IF: .722]. doi:10.1007/s12646-013-0196-8.

32. Noh, S., **Lohani, M.**, & Isaacowitz, D. M. (2011). Deliberate real-time mood regulation in adulthood: The importance of age, fixation and attentional functioning. *Cognition & Emotion*, 25(6), 998-1013. doi:10.1080/02699931.2010.541668 [IF: 2.678].

33. Srinivasan, N., Srivastava, P., **Lohani, M.**, & Baijal, S. (2009). Focused and distributed attention. *Progress in Brain Research*, 176(1), 87-100. doi:10.1016/S0079-6123(09)17606-9 [IF: 2.453].

Book Chapters

34. Stokes, C., **Lohani, M.**, DeCostanza, A. H., & Loh, E. (2023). Human-machine social systems: Test and validation via military use cases. In Fortino, G., Kaber, D., Nürnberger, A., & Mendonca, D. *Handbook of Human-Machine Systems*. Wiley.

35. **Lohani, M.**, Poitras, E., & Stokes, C. (2020). A framework for human-technology social systems: The role of inter-personal interactions. In R. Zheng (Eds.). *Examining Multiple Intelligence and Digital Technologies for Enhanced Learning Opportunities*. IGI Global. doi:10.4018/978-1-7998-0249-5.ch014.

36. Payne B.R. & **Lohani, M.** (2020). Personality and cognitive health in aging. In P. L. Hill and M. Allemand (Eds.). *Personality and Healthy Aging in Adulthood: New Directions and*

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Techniques. (pp. 173-190). Springer, Cham.

37. **Lohani, M.**, Larcom, M. J., & Isaacowitz, D. M. (2014). Happier & older? Age-related effects on positive emotion. In Gruber, J. & Moskowitz, J. (Eds.). *Positive emotion: Integrating the light sides and dark sides* (pp. 246–266). Oxford University Press. https://doi.org/10.1093/acprof:oso/9780199926725.003.0014

Technical Reports and Articles

38. Strayer, D. L., Cooper, J.M., Sanbonmatsu, D.M., Erickson, G.G., Simmons, T.G., McDonnell, A.S., Carriero, A.E., Crabtree, K.W., & **Lohani, M.** (2020). Driver's arousal and workload under partial vehicle automation. (Technical report) Washington, D.C.: AAA Foundation for Traffic Safety.

39. Rivers, S., **Lohani, M.**, McCoy, M., & Bailey, C. (2016). The trust project-symbiotic human machine teams: Social cueing for trust and reliance. (Technical report) Dayton, OH: SRA International Inc.

40. Larcom, M. J. & **Lohani, M.** (2011). Getting older, feeling good?: Individual difference factors associated with age effects in affective functioning. *Adult Development & Aging News*, 39(1), 3-5.

Presentations

Talks and Symposia

1. **Lohani, M.**, Ong, L.Q* , Wilson, M. E.*, Burrow, A. L., & Sin, N.L. (2024). Everyday discrimination: Shaping connections between emotion regulation and daily wellbeing. In Dynamic intergroup experiences: regulatory perspectives of perpetrators, witnesses, and targets Symposium, *Society for Personality and Social Psychology 2024 Annual Convention*

2. Beatty, J.*, **Lohani, M.**, & Hill,. P. L. (2024). Regulating biases in intergroup situations: Developing a measure of bias regulation. In Individual differences in self-regulation: Implications for developmental, social, and emotional processes symposium, *European Conference on Personality*

3. Shah, J., Cachelin, A., Banerjee, D., Yeo, S., Zummo, L. **Lohani, M.** (2024) Gendered experiences of climate grief amongst undergraduates at an R1 University, *Women in the Crosshairs - Center for Excellence in Women's Health*, Annual Symposium, Salt Lake City, UT

4. Pearson, J., Zummo, L., & **Lohani, M.** (2024). Interactive pilot seeks to answer: Are vanpools an answer for climate and well-being? *CleanMed*

5. **Lohani, M.**, Dutton, S.* , & Elsey, J. S.* (2021). Effective emotion regulation in college students during the COVID-19 pandemic. *Society for Personality and Social Psychology Conference.*

6. **Lohani, M.** (2021). Within- and between-individual differences in emotion regulation during the COVID-19 pandemic. Invited talk at the Department of Psychological and Brain Sciences Washington University, St. Louis, MO.

7. **Lohani, M.** (2021). Individual differences in emotion regulation during the COVID-19 pandemic. Invited talk at the Department of Psychology, Rutgers University, Camden, NJ.

8. **Lohani, M.**, Cooper, J., Erickson, G., Simmons, T., McDonnell, A.*, Crabtree, K., & Strayer, D. L. (2020). Driver arousal and workload under partial vehicle automation: a pilot study. *Human Factors Ergonomic Society Virtual Conference.*

9. Stanley, J., Eris, O., & **Lohani, M.** (2020). Toward a framework for machine self-presentation: A survey of self-presentation strategies in human-machine interaction studies.

IEEE Humanized Computing and Communication with Artificial Intelligence Virtual Conference

10. Chit-Tegmark, **Lohani, M.**, & Scheutz, M. (2019). Gender effects in perceptions of robots and humans with varying emotional intelligence. The 14th Annual *ACM/IEEE International Conference on Human Robot Interaction*, Daegu, South Korea.

11. Biondi, F., **Lohani, M.**, Hopman, R.*, Mills, S., Cooper, J., & Strayer, D. L. (2018). 80 MPH and out-of-the-loop: Effects of real-world semi-automated driving on driver workload and arousal. *International Annual Meeting of Human Factors Ergonomic Society.* Philadelphia, PA.

12. **Lohani, M.** (2018). Applied Psychophysiological methods: Expanding our quantitative methodological capacity through collaborations. Invited talk at the Office of Faculty Research and Support, University of Utah, Salt Lake City, UT.

13. **Lohani, M.** (2017). Self-regulation: Individual differences and interventions in real-world contexts. Invited talk at the Dept. of Psychology, University of Utah, Salt Lake City, UT.

14. Stokes, C.S., **Lohani, M.**, & McCoy M. (2017). Human-machine social systems. 2nd *International Workshop on Normative HRI: Ethics of and for Robots.* Vienna, Austria.

15. Fan, L., Scheutz, M., **Lohani, M.**, McCoy, M., & Stokes, C. (2017). Why we need to train with autonomous systems: Exploring emotional intelligence in human-robot interaction. The 8th *International Conference on Applied Human Factors and Ergonomics Conferences*, Los Angeles, CA.

16. **Lohani, M.** (2016). Multi-modal assessments of emotional reactivity and regulation. Invited talk at the Neuroscience and Education Lab, New York University, NY.

17. **Lohani, M.** (2016). Building non-technical skills between human-machine teams in an applied context. Invited talk at Lockheed Martin Corp. Mission Systems and Training, Orlando, FL.

18. **Lohani, M.** (2016). Applying basic emotion regulation research to real world contexts. Artusio, L. (Chair), Measurement of Emotional Intelligence Skills. Emotional Intelligence Symposium, University of Florence, Florence, Italy.

19. **Lohani, M.**, Stokes, C. K., McCoy, M., Bailey, C. A., Joshi, A., & Rivers, S. E. (2016). Perceived role of physiological sensors impacts trust and reliance on robots. Fisher, K. (Chair), Failure and trust in human-robot interaction. *IEEE International Symposium on Robot and Human Interactive Communication*, Columbia University, NY.

20. **Lohani, M.** (2015). The role of socioemotional cueing in effective human-agent team building. Affect Regulation and Cognition Lab, Yale University, New Haven, CT.

21. Stokes, C. K., Rivers, S. E., McCoy, M., **Lohani, M.**, & Schneider, T. R. (2015). Human-machine teaming: The social frontier. Lyons, J. (Chair), The promises and pitfalls of technology: Understanding user reliance as a means to avoid the latter. *American Psychological Association*, Toronto, Canada.

22. Oden, K., **Lohani, M.**, McCoy, M., Crutchfield, J., & Rivers, S. (2015). Embedding emotional intelligence into military training contexts. The 6th *International Conference on Applied Human Factors and Ergonomics Conferences*, Las Vegas, NV.

23. **Lohani, M.** (2014). Experiential-behavioral-physiological coherence during emotional reactivity and regulation in younger and older adults. Lazar Lab, Massachusetts General Hospital, Boston, MA.

24. Gruber, J., **Lohani, M.**, Purcell, J., & Isaacowitz, D. M. (2013). Seeing only the good? Emotional gaze preferences in bipolar disorder. Van Boven, L. (Chair), Attention and Emotion. *Society for Experimental Social Psychology (SESP)*, Berkeley, CA.

25. **Lohani, M.** (2013). A longitudinal training study to delineate the specific causal effects of

open monitoring versus focused attention techniques on emotional regulation skills. Lazar Lab, Massachusetts General Hospital, Boston, MA.

26. **Lohani, M.** (2012). Age differences in understanding socially inappropriate behavior. *Social Brain Sciences Symposium*, Harvard University, Cambridge, MA.

27. **Lohani, M.** (2011) Introduction to eye tracking. Yale Positive Emotion and Psychopathology Lab, Yale University, New Haven, CT.

28. **Lohani, M.** (2011). Effective affect regulation strategies during coping, emotion- and mood-regulation: A meta-analysis. Northeastern University, Boston, MA.

29. **Lohani, M.** (2007). Effect of attention on afterimages. XVII Annual Conference of the National Academy of Psychology, Indian Institute of Technology, Kanpur, India.

Poster Presentations

1. Do, A.^, Aisa, A.^, & **Lohani, M.** (2024). Exploring effective ways to regulate stress behind the wheel. Undergraduate Research Symposium, University of Utah.

2. Nistler, A.^, Follstad Shah, J, Yeo, S. Banerjee, D.**, Cachelin, A., Brunelle, A., Zummo, L., & **Lohani, M.** (2024). Climate optimism in ENVST students. Undergraduate Research Symposium, University of Utah.

3. **Lohani, M.**, Wei, W, Shultz, C.* , Janney, B. ** , Elsey, J. S.*, & Zummo, L. (2024). Exploring the regulation of emotional responses to climate change. *Emotion Regulation Pre-Conference at Society for Affective Science Conference.*

4. Elsey, J. S.* , Dutton, S.* , & **Lohani, M.** (2024) Understanding emotional regulation strategies in response to daily climate change stressors. *Society for Affective Science Conference.*

5. Dutton, S.*, Hill, P. L., Imel, Z. E., & **Lohani, M.** (2023) Affect in the wild: Psychophysiological responses to real-world contexts. *Society for Psychophysiological Research.* New Orleans, LA.

6. Elsey, J. S.* , Dutton, S.* , & **Lohani, M.** (2023). Affective experiences and stress reactivity: The moderating role of stressor forecasting. *Society for Affective Science Conference.* Long Beach, CA.

7. Ong, L.Q.* , Wilson, M.E.*, Burrow, A.L., **Lohani, M.**, Hill, P.L., & Sin, N.L. (2023). Anticipated discrimination in daily Life: Correlates with affect and physical symptoms. Annual meeting of the Canadian Psychological Association.

8. Ong, L.Q.* , Wilson, M.E.*, Burrow, A.L., **Lohani, M.**, Hill, P.L., & Sin, N.L. (2023). Anticipated discrimination in daily life: Correlates with perceived stressfulness and control. Annual meeting of the American Psychosomatic Society, San Juan, Puerto Rico.

9. Dutton, S.*, Hill, P. L., Imel, Z. E., & **Lohani, M.** (2022) The impact of long-term stress on reactivity to daily stressors. *Society for Psychophysiological Research.* Vancouver, BC, Canada.

10. Dutton, S.*, Hill, P. L., Imel, Z. E., & **Lohani, M.** (2022) Understanding the interaction between chronic and daily stress in lab and real-world settings. Behavioral Science Research Day, *Huntsman Mental Health Institute*, University of Utah, UT.

11. **Lohani, M.**, Pfund, G. N.*, & Hill, P. L. (2022). Yet another two by two: Two factors for emotion regulation persist across two large samples. *Society for Affective Science Virtual Conference.*

12. Elsey, J. S.* , Dutton, S.* , Findley, S. P.* , Harmston, E.* , Pham, A.*, Baker, J. C., Langnecker, S. A., Bryan, C. J., & **Lohani, M.** (2022). Stress-related risk factors and suicide ideation: The mediating role of emotion dysregulation. *Society for Affective Science Virtual Conference.*

13. Dutton, S.* , Elsey, J. S.* , & **Lohani, M.** (2022). Student experiences in the real world: The

role of perceived stress and control on affect. *The College of Education Research Symposium* at the University of Utah, Salt Lake City, UT.

14. Elsey, J. S.* , Dutton, S.* , & **Lohani, M.** (2022). The relationship between stress anticipation and affect in college students. *The College of Education Research Symposium* at the University of Utah, Salt Lake City, UT.

15. Aina, D.*, Poitras, E., & **Lohani, M.** (2022). Detection of student confusion in MOOCs: Feature extraction methods for EEG signal processing. *American Educational Research Association.*

16. **Lohani, M.**, Cooper, J., McDonnell, A.*, Erickson, G., Simmons, T., Carriero, A., Crabtree, K., & Strayer, D. L. (2021). Psychometric properties of psychophysiological and behavioral cognitive demand measures in applied driving research. *2021 Virtual Annual Meeting of the Society for Psychophysiological Research.*

17. McDonnell, A.*, Simmons, T., Erickson, G., **Lohani, M.**, Cooper, J., & Strayer, D. L. (2021). Neural indices of driver workload and engagement under partial vehicle automation. *2021 Virtual Annual Meeting of the Society for Psychophysiological Research.*

18. **Lohani, M.**, Cooper, J., Erickson, G., Simmons, T., McDonnell, A.*, Carriero, A., Crabtree, K., & Strayer, D. L. (2020). Application of heart rate variability to assess arousal in semi-automated vehicles. *2020 Virtual Annual Meeting of the Society for Psychophysiological Research.*

19. Payne, B.R., Silcox, J.*, Lash, A., Ferguson, S.H., & **Lohani, M.** (2018). Text captioning reduces the effects of perceptual effort on speech memory. *Annual Meeting of the Psychonomic Society*, New Orleans, LA.

20. Payne, B.R., Silcox, J.*, Lash, A., Ferguson, S.H., & **Lohani, M.** (2018). Assistive text captioning offsets the effects of background noise on speech memory and pupillometry. *Academy of Rehabilitative Audiology*, Pittsburgh, PA.

21. **Lohani, M.** (2017). Future capabilities: The sense-assess-augment systems. *The Forum on the Impact of Vehicle Technologies & Automation on Users*, Salt Lake City, UT.

22. **Lohani, M.**, Stokes, C.K., Oden, K., Frazier, S., Landers, K., Craven., P., Lawton, D., McCoy, M., & Macannuco, D. (2017). The impact of non-technical skills on trust and stress. *Human-Robot Interaction Conference*, Vienna, Austria.

23. Schneider, T. R., Jessup, S. A., Stokes, C. S., **Lohani, M.**, & McCoy M. (2017). The influence of trust propensity on trust behaviors. *Association for Psychological Science Annual Convention 2017*, Boston, MA.

24. **Lohani, M.**, Stokes, C. K., McCoy, M., Bailey, C. A., & Rivers, S. E. (2016). Social interaction moderates human-robot trust-reliance relationship and improves stress coping. *ACM/IEEE International Conference on Human-Robot Interaction*, Christchurch, New Zealand.

25. Cooper, G., Dombrecht, L., Hay, A. C., **Lohani, M.**, & Gruber J. (2016). Remembering that neutral feeling? Enhanced memory for neutral, but not positive or negative, emotional stimuli in bipolar I disorder. *Society for Personality and Social Psychology*, San Diego, CA.

26. Leite, I., McCoy, M., **Lohani, M.**, Ullman, D., Stokes-Schwartz, C., Rivers, S., & Scassellati, B. (2015). Building emotional understanding through interactive role-play using robots. *Society for Research in Child Development*, Philadelphia, PA.

27. Leite, I., McCoy, M., **Lohani, M.**, Ullman, D., Stokes-Schwartz, C., Rivers, S., & Scassellati, B. (2015). Emotional storytelling in the classroom: Individual versus group interaction between children and robots. *ACM/IEEE International Conference on Human-Robot Interaction*, Portland, OR.

28. **Lohani, M.** & Isaacowitz, D.M. (2014). Effects of age, emotional flexibility, and cognitive

abilities on the effectiveness of regulating sadness using the acceptance strategy. *International Symposium for Contemplative Studies*, Boston, MA.

29. **Lohani, M.** & Isaacowitz, D.M. (2014). Experiential-physiological coherence during sadness reactivity and regulation in younger and older adults. *Society for Psychophysiological Research Conference*, Atlanta, GA.

30. Purcell, J., **Lohani, M.**, Isaacowitz, D. M., & Gruber, J. (2013). Seeing only the good? Visual attention preferences using eye-tracking in bipolar I disorder. *Society for Research in Psychopathology*, Oakland, CA.

31. **Lohani, M.**, Stanley, J. T., & Isaacowitz, D. M. (2012). Self-report funniness ratings and facial electromyography reveal unique age-related responses to aggressive social humor. *Society for Psychophysiological Research Conference*, New Orleans, LA.

32. **Lohani, M.**, Stanley, J. T., & Isaacowitz, D. M. (2012). Aging and the understanding of complex social situations. *Cognitive Aging Conference*, Georgia Institute of Technology, Atlanta, GA.

33. **Lohani, M.**, & Isaacowitz, D. M. (2011). Multimodal assessment of the effectiveness of attentional deployment, reappraisal, and suppression in young and older adults. *Affective Science Institute meeting*, Boston, MA.

34. **Lohani, M.**, & Isaacowitz, D. M. (2011). Effectiveness of attentional deployment in young and older adults. *Gerontological Society of America*, Boston, MA.

35. **Lohani, M.**, & Isaacowitz, D. M. (2011). Multimodal assessment of the effectiveness of attentional deployment, reappraisal, and suppression in young and older adults. *Society for Psychophysiological Research Conference*, Boston, MA.

36. **Lohani, M.**, & Isaacowitz, D. M. (2011). Multimodal assessment of the effectiveness of attentional deployment, positive reappraisal, and suppression. *Association for Psychological Science Annual Convention*, Washington, DC.

37. **Lohani, M.**, Noh, S., & Isaacowitz, D. M. (2010). Deliberate real-time mood regulation in adulthood: The importance of age, fixation, and attentional processing. *Cognitive Aging Conference, Georgia Institute of Technology*, Atlanta, GA.

38. **Lohani, M.**, Srinivasan, N. (2009). Individual differences in emotional reappraisal are linked to attentional flexibility: An eye-tracking study. Health Emotions Research Institute's 15th *Annual Wisconsin Symposium on Emotion*, University of Wisconsin, Madison, WI.

39. **Lohani, M.**, Srinivasan, N. (2007). Stress affects memory for detail in emotional pictures. International Symposium on Advances in Neurosciences & Silver Jubilee Conference of *Indian Academy of Neurosciences*, Banaras Hindu University, Varanasi, India.

Grant Funding

Awarded

Leading educational advances in research and new technologies award
Role: PI
$5,000   2022-2023

Dean's research fellowship award 2022-2024
College of Education, University of Utah
Role: Co-PI
$130,000   2022-2024

A psychophysiological approach to the refinement of suicide risk management intervention
1U4U, University of Utah

Role: PI
$30,000   2020-2021

Psychological flexibility in real-world: Toward an innovative psychophysiological approach
Research Funding Incentive Grant, University of Utah
Role: PI
$9,444   2019-2021

The effects of text captioning on neurocognitive workload of speech understanding
Telecommunications Research and Development Grant by CaptionCall LLC.
Role: Co-PI
$166,961   2018-2019

*A longitudinal training study to delineate the specific causal effects of open monitoring
versus focused attention techniques on emotional regulation skills*
The Mind and Life Francisco J. Varela Research Grant
Role: PI
$15,000   2013-2016

Not Awarded

Assessing effects of stress on spatial gist using physiological and behavioral measures
U.S. Army Research Institute for the Behavioral and Social Sciences
Role: Co-PI (PI: Chamberlain and Stefanucci; Co-PI: Creem-Regehr)
$799,966   2023

*Emotional civic practice through an interdisciplinary lens:
Learning for productive conversations about divisive issues*
Spencer Foundation Grant
Role: Co-PI (PI: Zummo)
$50,000   2023

Vanpools for UHealth: A randamized climate co-health benefits clinical trial
Faculty Small Grant Program, University of Utah
Role: Co-PI (Co-PI: Pearson, Zummo)
$10,000   2024

Vanpools for UHealth: A randomized climate co-health benefits clinical trial
Sustainable Campus Initiative Fund, University of Utah
Role: Co-PI (PI: Pearson; Co-PI: Zummo)
$35,000   2023

*Building bridges and crossing divides: Conversation as a means to shift to
shared engagement around climate change*
Wilkes Center Seed Grant Program, University of Utah
Role: Co-I (PI: Zummo)
$20,000   2022

Memory self-concept in daily life: Developmental and contextual influences
Science of Learning and Augmented Intelligence, National Science Foundation
Role: Co-I (PI: Hill; Co-I: Jackson)
$511,477   2022

Together, we can make a difference: Science-based community workshops
to tackle Utah's water dilemma
Community-Based Research Grants Program, University of Utah
Role: PI
$30,000   2022

EPIC interest in science: Enhancing student STEM interest and motivation through
research on digitized museum collections
Innovative Technology Experiences for Students and Teachers program
National Science Foundation
Role: Co-PI (PI: Butcher; Co-PIs: Larson, Sansone)
$1,498,997   2021

Distinguishing adjustment sisorders from chronic behavioral health disorders after
sexual assault and other military-relevant stressors
Department of Defense, Defense Health Program
Role: Co-I (PI: Leifker; Co-Is: Asnaani, Baker, Baucom, Bryan)
$1,120,724   2019

Cognitive performance, neurophysiology, and pharmacometrics of IPA
under hypobaric normoxia
Air Force Research Lab
Role: Co-PI (Co-PI: Job; Co-Is: Balch, Collingwood, Liu, Payne, Strayer)
$1,494,042   2019

Harnessing the role of an embodied hybrid sensor to advance cognition and physical
capabilities of alcohol-impaired human-subjects
NSF Future of Work at the Human-Technology Frontier
Role: Co-PI (PI: Misra; Co-PI Khan, Kumar)
$749,970   2018

Real-time detection and augmentation of inattention to improve driving safety technology
The MITRE Corp.
Role: Co-PI (Co-PI: Stokes)
$137,888   2017

LingoFit: AI coPilot for safety on the road
NSF Small Business Innovation Research
Role: Subawardee
$24,999   2017

Toward a new genre of cyberlearning: Understanding learning processes to develop
social and emotional competence
National Science Foundation - Cyberlearning & Future Learn Technology
Role: Co-I (PI: Rivers)
$511,477   2016

Socioemotional joint training for calibrated trust and effective human-machine teams
Air Force Office of Scientific Research
Role: Co-PI (PI: Stokes)
$2,333,000   2016

Examining emotional intelligence benefits for human-machine teaming
Air Force Office of Scientific Research
Role: Co-I (PI: Stokes)
$435,000   2015

Development of an objective measure of compassion and mindful awareness
The Mind and Life 1440 Grant for Contemplative Education Research
Role: PI
$30,000   2014

Awards and Fellowships

Postdoctoral Scholars Travel Award   2016
Yale University

International Symposium for Contemplative Studies Scholarship   2015
Mind & Life Institute

Graduate Student Association Scholarship   2014
Brandeis University

Travel & Research Grant   2013
Brandeis University

Research Fellow   2012-2013
Mind & Life Institute

Student Travel Award   2009
Wisconsin Symposium on Emotion, University of Wisconsin-Madison

Graduate Fellowship   2008-2013
Brandeis University

Graduate Merit Fellowship   2006-2008
University of Allahabad

Teaching Experience and Mentorship

Instructor of Record

Human Factors, University of Utah	2024-present
Issues in Cognition, University of Utah	2023-present
Research Experience (Cognitive), University of Utah	2023-present
Individual Research Projects (Cognitive), University of Utah	2023
Honors Topics in Cognitive Psychology, University of Utah	2023-present
Graduate Quantitative Methods I, University of Utah	2021-2022
Graduate Quantitative Methods II (6 credit), University of Utah	2019-2023
Cognitive and Affective Bases of Behavior, University of Utah	2018-2023
Research Methods in Psychology Laboratory, University of Utah	2017
Directed Research for Senior Requirements, Yale University	2015-2016
Directed Research, Yale University	2015
Research Methods in Psychology, Brandeis University	2013
Psychological Statistics, Brandeis University	2011-2012

Student Research Mentorship

Primary Graduate Advisor

Ginger Blodgett, PhD Student	2024-present
Jamie Elsey, PhD Student	2023-present
Jamie Elsey, Master of Statistics	2021-2023

Undergraduate Research Mentorship

Alec Roberts (RA)	2024-present
Songyi Lee (RA)	2024-present
Amy Do (RA)	2023-present
Aifara Aisa (RA)	2023-2024
Hannah Lawrence (RA)	2023
Jacob Oler (Honors thesis student)	2023-present
Angela Pham (Summer Program for Undergraduate Research Mentee)	2021

Trainee funded-grant mentorship

Undergraduate Wilkes Scholar, Faculty Mentor

Wilkes Center for Climate Science & Policy

Alec Roberts, Department of Psychology, University of Utah	2024-present

Graduate Research Fellowship, Faculty Consultant

Mirinda Whitaker, Department of Psychology, University of Utah	2024-present

NIH National Research Service Award, Key Faculty Investigator

Kiran Kaur, Department of Psychology, University of Utah	2023-present

Masters Committee member

Ashley Buzard (Cognition and Neural Sciences, Psychology)	2023-present
Lensky Augustin (Cognition and Neural Sciences, Psychology)	2023-present
Alex Detrich (Cognition and Neural Sciences, Psychology)	2023

Prelim Committee Member:

Alex Detrich (Cognition and Neural Sciences, Psychology)	2024-present
Chenxin Yu (Cognition and Neural Science, Psychology)	2024-present
Kiran Kaur (Clinical Psychology, Psychology)	2023
Anna Katz (Reading and Literacy, Educational Psychology)	2023

Dissertation Committee member

Kiran Kaur (Clinical Psychology, Psychology)	2024-present
Robyn Kilshaw (Clinical Psychology, Psychology)	2024-present
Becky Neufeld (Social Psychology, Psychology)	2023-present
Wing Ng (Counseling Psychology, Educational Psychology)	2022-present
Ethan S. Evans (Counseling Psychology, Educational Psychology)	2022-present
Samuel P Findley (Counseling Psychology, Educational Psychology)	2021-present
Katherine E. Axford (Counseling Psychology, Educational Psychology)	2021-present
Kent E. Ellsworth (Learning and Cognition, Educational Psychology)	2020-present

Jessica A. Totsky (Counseling Psychology, Educational Psychology)	2019-present
Nile C. Brandt (Counseling Psychology, Educational Psychology)	2019-present
Jasmin Guevara (Clinical Psychology, Psychology)	2023-2024
Matthew P. Orr (Instructional Design & Ed. Tech., Educational Psychology)	2022-2024
Benjamin R. Ratcliff (Counseling Psychology, Educational Psychology)	2020-2023
Samuel O. Dutton (Learning and Cognition, Educational Psychology)	2020-2023
Margaret O. Opatz (Reading and Literacy, Educational Psychology)	2021 - 2022
Zachary R. Mayne (Learning and Cognition, Educational Psychology)	2020-2021
Christina S. Soma (Counseling Psychology, Educational Psychology)	2020-2022
Emily E. Scott (Cognition and Neural Sciences, Psychology)	2019-2021
Julia A. Harris (Clinical Psychology, Psychology)	2018-2020

Reviewer

Ad Hoc Grant Reviewer

Small Business Innovation Research (SBIR), National Science Foundation	2023
Swiss National Science Foundation	2022-present
Social Psychology Program, National Science Foundation	2019-2021

Ad Hoc Journal Reviewer

Accident Analysis and Prevention, Applied Human Factors and Ergonomics, Applied Psycholinguistics, Aging, Neuropsychology and Cognition, Biological Psychology, Brain Research, Cognitive Research: Principles and Implications, Clinical Psychological Science, Cognition and Emotion, Educational Psychology, Emotion, Frontiers in Neuroergonomics, Human Robot Interaction, International Journal of Human-Computer Interaction, Interaction Studies, International Journal of Psychophysiology, International Journal of Social Robotics, IGI Global, PLOS One, Positive Psychology, Psychology and Aging, Sage Open, Scientific Reports, & Social and Personality Compass

Conference Reviewer

Abstract Review Board, Society for Affective Science	2020-present

Workshop Co-organizer

Training for human-machine teams. Applied Human Factors and Ergonomics International Conference, Los Angeles, CA	2017
Applying HRI to the defense sector: Human-agent teams. The IEEE International Symposium on Robot and Human Interactive Communication, Columbia University, NY	2016

Service

Society for Affective Science, Fundraising Co-Chair	2024-present
Society for Psychophysiological Research, Women in Science and Education (WISE) Committee	2024-present
Society for Psychophysiological Research, Mentorship Committee	2024-present
Society for Affective Science, Fundraising Committee Member	2023-2024
Graduate Program Committee, Department of Psychology, University of Utah	2023-present
Educational Psychology Master of Statistics Track Director	2022-2023
Learning Sciences Program Committee	2018-2023
STEM Education Faculty Search Committee	2021-2022
Department's representative – Equity, Diversity, and Inclusion Committee	2022-2023