

AMY S. MCDONNELL, PHD

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380 South 1530 East, Room 502
Salt Lake City, UT 84112

EDUCATION AND TRAINING

Postdoctoral Research Fellow Cognitive Neuroscience, Department of Psychology <i>University of Utah</i>	2023-Present
Ph.D. in Psychology, Cognitive Neuroscience Designation in Teaching in Higher Education <i>University of Utah</i>	2020-2023
M.S. in Psychology, Cognitive Neuroscience <i>University of Utah</i>	2018-2020
B.S. in Psychology, Neuroscience Concentration Minor in Faith, Peace, and Justice <i>Boston College</i>	2011-2015

RESEARCH INTERESTS

I study neural correlates of human attention and how they change when you shift out of the laboratory and into real-world, applied contexts. In one primary line of research, I utilize electroencephalography (EEG) and electrocardiography (ECG) to study the psychophysiological effects of immersion in natural environments on attention, affect, and health. In another line of research, I utilize EEG, ECG, driving simulation, and on-road, naturalistic methods to explore driver workload, arousal, and attention when multitasking behind the wheel and operating autonomous vehicles. My research has significant implications for areas such as public health, urban design, technological advancement, transportation safety, and human-automation interactions.

PUBLICATIONS

†Contributed equally

- McDonnell, A. S.**, Crabtree, K. W., Cooper, J. M., & Strayer, D. L. (In Press). This is your brain on Autopilot 2.0: The influence of practice on driver workload and engagement during on-road, partially-automated driving. *Human Factors*, XX(XX), XX-XX.
- LoTemplo, S. B., **McDonnell, A. S.**, Nadkarni, N., Walker, S., Gallegos-Riofrio, C. A., Scott, E. E., Bettmann, J. E., Rojas-Rueda, D., Dahl, J., Tomasso, L. P., Lawler, J., Davalos, D., & Strayer, D. L. (In Press). Healthy by nature: Policy practices aimed at maximizing the human health benefits of nature contact. *Policy Insights from the Behavioral and Brain Sciences*, XX(XX), XX-XX.
- Biondi, F. N., **McDonnell, A. S.**, Mahmoodzadeh, M., Jajo, N., Balasingam, B., & Strayer, D. L. (2023). Vigilance decrement during on-road partially-automated driving across four systems. *Human Factors*, XX(XX), XX-XX. <https://doi.org/10.1177/00187208231189658>
- LoTemplo, S. B., Lopes, C. L., **McDonnell, A. S.**, Scott, E. E., Payne, B. R., & Strayer D. L. (2023). Updating the relationship of the Ne/ERN to task-related behavior: A brief review and suggestions for future research. *Frontiers in Human Neuroscience*, 17, 1-21. <https://doi.org/10.3389/fnhum.2023.1150244>
- Scott, E. E.[†], Crabtree, K. W.[†], **McDonnell, A. S.**, LoTemplo, S. B., McNay, G. D., & Strayer, D. L. (2023). Measuring affect and complex working memory in natural versus urban environments. *Frontiers in*

Psychology, 14, 1-11. <https://doi.org/10.3389/fpsyg.2023.1039334>

McDonnell, A. S., Imberger, K., Poulter, C., & Cooper, J. M. (2021). The power and sensitivity of four core driver workload measures for benchmarking the distraction potential of new driver vehicle interfaces. *Transportation Research Part F: Traffic Psychology and Behaviour*, 83, 99-117. <https://doi.org/10.1016/j.trf.2021.09.019>

McDonnell, A. S., Simmons T. G., Erickson, G. G., Lohani, M., Cooper J. M., & Strayer, D. L. (2021). This is your brain on Autopilot: Neural indices of driver workload and engagement under partial vehicle automation. *Human Factors*. xx(xx), 1-16. <https://doi.org/10.1177/00187208211039091>

Lohani, M., Cooper J. M., Erickson, G. G., Simmons, T. G., **McDonnell, A. S.**, Carriero, A. E., Crabtree, K. W., & 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>

Scott E. E., **McDonnell, A. S.**, LoTemplo, S. B., Uchino, B. N., & Strayer, D. L. (2021). Toward a unified model of stress recovery and cognitive restoration in nature. *Parks Stewardship Forum*, 37, 46-60. <https://doi.org/10.5070/P537151710>

LoTemplo, S. B., Scott, E. E., **McDonnell, A. S.**, Hopman, R. J., Castro, S., McNay, G. D., McKinney, T. L., Greenberg, K., Payne, B. R., & Strayer, D. L. (2020). Nature as a potential modulator of the error-related negativity. *International Journal of Psychophysiology*, 156, 49-59. <https://doi.org/10.1016/j.ijpsycho.2020.06.014>

Scott, E. E., LoTemplo, S. B. **McDonnell, A. S.**, McNay, G. D., Greenberg, K., McKinney, T. L., Uchino, B. N., Strayer, D. L. (2020). The autonomic nervous system in its natural environment: Immersion in nature is associated with changes in heart rate and heart rate variability. *Psychophysiology*, e13698. <https://doi.org/10.1111/psyp.13698>.

Lohani, M., Cooper J. M., Erickson, G. G., Simmons, T. G., **McDonnell, A. S.**, Carriero, A. E., Crabtree, K. W., & 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*, 64(1), 1955-1959. <https://doi.org/10.1177/1071181320641471>

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. *Washington, DC: AAA Foundation for Traffic Safety*. <https://aaaafoundation.org/wp-content/uploads/2020/03/1.-AAA-Foundation-Utah-Report-FINAL.pdf>

BOOK CHAPTERS

Strayer, D. L., Castro, S. C., & **McDonnell, A. S.** (2022). The Multitasking Motorist. In A. Kiessel, L. Johannsen, H. Mueller, & I. Koch (Eds.), *Handbook of Human Multitasking*. <https://doi.org/10.1007/978-3-031-04760-2>

MANUSCRIPTS UNDER REVIEW

Sanbonmatsu, D. M., Crabtree, K. W., **McDonnell, A. S.**, Cooper, J. M., & Strayer, D. L. (revise and resubmit). Automated Driving Experiences, Attention, and Intentions Following Extensive On-Road Usage of a Level 2 Automation Vehicle.

McDonnell, A. S. & Strayer, D. L. (under review). Immersion in nature enhances neural indices of executive control.

Alley, J. C., **McDonnell, A. S.**, & Diamond, L. M. (under review). Early adversity, sexual diversity, and self-reported

versus neurobiological sexual reward sensitivity.

Cooper, J. M., Crabtree, K. W., **McDonnell, A. S.**, May, D., Strayer, S. C., Tsogtbaatar, T., Cook, D. R., Alexander, P. A., Sanbonmatsu, D. M., & Strayer, D. L. (under review). Driver behavior while using Level 2 Vehicle Automation: A hybrid naturalistic study.

MANUSCRIPTS IN PREPARATION

McDonnell, A.S., LoTemplo, S.B., Scott, E.E., McNay, G.D., Greenberg, K., & Strayer, D.L. (In preparation). The influence of natural environments on neurophysiological correlates of reward processing.

McDonnell, A.S., Scott, E.E., LoTemplo, S.L., Stefanucci, J.K., & Strayer, D.L. (In preparation). Nature and the brain: Attention, affect, and the integrative role of the anterior cingulate cortex.

McDonnell, A.S. & Strayer, D.L. (In preparation). Neurophysiological effects of exposure to nature: Suggestions for future research.

Scott, E. E., **McDonnell, A. S.**, LoTemplo, S. B., McNay, G. D., Greenberg, K., Castro, S. C., & Strayer, D. L. (In preparation). Prolonged immersion in nature modulates neural correlates of working memory.

LoTemplo, S. B., McKinney, T. L., Scott E. E., **McDonnell, A. S.**, Castro, S. C., McNay, G. D., Greenberg, K., Euler, M., Payne, B. R., & Strayer D. L. (In preparation). A natural boost to cognitive control: Nature exposure as a potential modulator of the anterior N2 component and medial frontal theta.

GRANTS AND AWARDS

The Frederick T. Rhodewalt Award for Innovative Scholarship , University of Utah, \$1,000	2023
Utah Public Health Conference Scholarship , Utah Public Health Association, \$300	2023
Commendation for Research , University of Utah, Department of Psychology	2023
Graduate Research Fellowship , University of Utah, The Graduate School, \$20,108	2022
Professional Development Award , University of Utah, Cognition and Neural Sciences, \$500	2022
B. Jack White Award , University of Utah, Department of Psychology, \$1,250	2022
Clayton Award for Research Excellence , University of Utah, Department of Psychology, \$2,700	2022
Teaching in Higher Education Designation , University of Utah, Center for Teaching and Learning Excellence	2022
Graduate Student Travel Assistance Award , University of Utah, The Graduate School, \$1,000	2022
Virtual Conference Award , University of Utah, The Graduate School, \$200	2021
Commendation for Service , University of Utah, Department of Psychology	2021
Professional Development Award , University of Utah, Cognition and Neural Sciences, \$500	2020
Qualifying Exams—Pass with Distinction , University of Utah, Department of Psychology	2020
Commendation for Research , University of Utah, Department of Psychology	2020
Commendation for Teaching , University of Utah, Department of Psychology	2020
Undergraduate Research Mentorship Certificate , University of Utah, Office of Undergraduate Research	2020
SHIFT Award—Applied Cognition Lab , SHIFT Conference	2019
Emerging Leaders Program Fellow , SHIFT Conference	2019

RESEARCH EXPERIENCE

University of Utah – Immersive Neuromodulation and Neuroimaging Lab, Salt Lake City, UT 2023-Present
Postdoctoral Research Fellow
Advisor: Cory Inman, Ph.D.

University of Utah – Applied Cognition Lab , Salt Lake City, UT <i>Postdoctoral Research Fellow</i> Advisor: David Strayer, Ph.D.	2023-Present
University of Utah – Applied Cognition Lab , Salt Lake City, UT <i>Graduate Student</i> Advisor: David Strayer, Ph.D.	2018-2023
Red Scientific , Salt Lake City, UT <i>Statistical Consultant</i> Supervisor: Joel Cooper, Ph.D.	2020-2021
Didi Hirsch Mental Health Services , Los Angeles, CA <i>Clinical Research Assistant</i> Supervisors: Lisa Davis, Ph.D. and Sae Lee, Ph.D.	2015-2017
Boston College – Department of Psychology , Chestnut Hill, MA <i>Research Assistant</i> Advisor: Ann Burgess, D.N.Sc., RNCS, FAAN	2014-2015

TEACHING EXPERIENCE

PSY4130 Cognition in the Wild, University of Utah , Salt Lake City, UT <i>Instructor</i>	Fall 2023
PSY4130 Cognition in the Wild, University of Utah , Salt Lake City, UT <i>Instructor</i>	Spring 2022
Introduction to Psychology, Utah State Prison , Draper, UT <i>Lab Instructor</i>	Summer 2021
PSY3960 Data Science for Psychology Majors, University of Utah , Salt Lake City, UT <i>Teaching Assistant</i>	Spring 2021
PSY4130 Cognition in the Wild, University of Utah , Salt Lake City, UT <i>Instructor</i>	Spring 2020
PSY2100 Cognitive Psychology, University of Utah , Salt Lake City, UT <i>Teaching Assistant</i>	Fall 2019, 2020, 2021
PSY3711 Brain and Behavior, University of Utah , Salt Lake City, UT <i>Teaching Assistant</i>	Summer 2019

SELECTED INVITED TALKS

Macquarie University , Sydney, Australia Title: <i>Nature on the Brain</i> , Perception in Action Research Centre	April 2023
Vermont State University , Burlington, VT <i>Guest Lecturer</i> , PSY4010 Biological Psychology	March 2023
University of Utah , Salt Lake City, UT <i>Guest Lecturer</i> , PSY2100 Cognitive Psychology	February 2023
University of Utah , Salt Lake City, UT <i>Guest Lecturer</i> , STAT6003 Survey of Statistical Packages	February 2022

University of Utah , Salt Lake City, UT <i>Guest Lecturer</i> , PSY2100 Cognitive Psychology	November 2021
University of Utah , Salt Lake City, UT <i>Guest Lecturer</i> , PSY3960 Data Science for Psychology Majors	April 2021
University of Utah , Salt Lake City, UT <i>Guest Lecturer</i> , PSY2100 Cognitive Psychology	October 2020
Southern Utah Wilderness Alliance , Salt Lake City, UT Title: <i>Nature in the Time of COVID-19</i>	April 2020
Emerging Leaders Program for the SHIFT Conference , Jackson, WY Title: <i>Outdoor Recreation and Health</i>	October 2019
University of Utah , Salt Lake City, UT <i>Guest Lecturer</i> , PSY2100 Cognitive Psychology	September 2019
University of Utah , Salt Lake City, UT <i>Guest Lecturer</i> , PSY2010 Psychology as a Science and Profession	July 2019
University of Utah , Salt Lake City, UT <i>Guest Lecturer</i> , PSY4130 Cognition in the Wild	March 2019
Boston College TED Talks: Undergraduate Lecture Series , Chestnut Hill, MA Title: <i>How Neuroscience Can Save the Crisis in America's Prisons</i>	April 2015

CONFERENCE PRESENTATIONS

SYMPOSIA

McDonnell, A.S. & Strayer, D.L. (April 2023). This is your brain on nature: The influence of exposure to natural environments on cognition and mental health. Presentation at the 2023 Utah Public Health Conference in Salt Lake City, Utah.

McDonnell, A.S., Cooper, J.M., & Strayer, D.L. (October 2021). Assessing visual engagement during partial automation. Presentation at the 7th International Conference on Driver Distraction and Inattention in Lyon, France.

McDonnell, A.S. & Strayer, D.L. (October 2021). Neurophysiological Effects of Exposure to Nature: Attention, Affect, And Integrative Role of the Anterior Cingulate Cortex. Presentation at the Nature and Health Conference in Seattle, Washington.

POSTER PRESENTATIONS

**Undergraduate researcher mentee*

McDonnell, A.S. & Strayer, D.L. (upcoming November 2023). Immersion in nature enhances neural correlates of human attention. Poster presentation at the 2023 Society for Neuroscience in Washington, D.C.

McDonnell, A.S., LoTempio, S.B., & Strayer, D.L. (September 2023). Cognition in the wild: The influence of immersion in nature on the brain and behavior. Poster presentation at the 2023 Mental Health, Brain and Behavioral Science Research Day at the University of Utah.

Scott, E.E., **McDonnell, A.S.**, McNay, G.D., Strayer, D.L., & LoTempio, S.B. (September 2023). Examining changes in physiological stress during exposure to environmental imagery. Poster presentation at the 2023 SHIFT Conference in Bend, Oregon.

- Storie, M.* & **McDonnell, A.S.** (August 2023). Influence of nature on effortful processing of emotionally charged stimuli.
- Macfarlane, M.* & **McDonnell, A.S.** (February 2023). Effects of natural and urban imagery on error-related negativity. Poster presentation at the 2023 Utah Conference for Undergraduate Research in Salt Lake City, Utah.
- Silcox, J., **McDonnell, A.S.**, Strayer, D.L., & Payne, B., (November 2022). Driving under the influence of misperception: The effects of speech perception and false hearing on driving performance. Poster presentation at the 2022 Psychonomic Society's 63rd Annual Meeting in Boston, Massachusetts.
- McDonnell, A.S.**, Crabtree, K.W., DePry, C., Cooper, J., & Strayer, D.L. (September 2022). The influence of trust on driver cognitive states during automated driving. Poster presentation at the 2022 Society of Psychophysiological Research 62th Annual Meeting in Vancouver, British Columbia.
- McDonnell, A.S.**, LoTempio, S.L., McNay, G.D., Scott, E.E., & Strayer, D.L. (September 2022). The influence of exposure to different dosages of nature on reward processing. Poster presentation at the 2022 Society of Psychophysiological Research 62th Annual Meeting in Vancouver, British Columbia.
- Shannon, M.F.* & **McDonnell, A.S.** (August 2022). The cognitive effect of nature imagery on reward positivity. Poster Presentation at the 2022 Undergraduate Research Symposium.
- Macfarlane, M.*, Quick, A.*, & **McDonnell, A.S.**, (August 2022). Effects of natural and urban imagery on error-related negativity. Poster Presentation at the 2022 Undergraduate Research Symposium.
- Schulz, C.*, **McDonnell, A.S.**, LoTempio, S.B., & Strayer, D.L. (April 2022). Effect of nature vs. urban imagery on the reward positivity. Poster Presentation at the 2022 Undergraduate Research Symposium.
- Jeong, S. *, **McDonnell, A.S.**, Silcox, J., Strayer, D.L., & Payne, B. (April 2022). The effect of listening to degraded speech on driving performance. Poster Presentation at the 2022 Undergraduate Research Symposium.
- Bennett, K.*, Jeong, S.*, Silcox, J., **McDonnell, A.S.**, Payne, B., & Strayer, D.L. (April 2022). The effects of driving on false hearing and cognitive load. Poster Presentation at the 2022 Undergraduate Research Symposium.
- McDonnell, A.S.**, Crabtree, K.W., Cooper, J., Strayer, D.L. (September 2021). Neural indices of driver workload and engagement during partial vehicle automation. Poster presentation at the 2021 Society of Psychophysiological Research 61st Annual Meeting.
- Augustin, L.*, Hoffman, N.*, **McDonnell, A.S.**, LoTempio, S.B., & Strayer, D.L. (August 2021). Assessment of Nature Imagery's Influence on Attention Restoration. Poster Presentation at the 2021 Undergraduate Research Symposium.
- McDonnell, A.S.**, LoTempio, S.B., Scott, E.E., McNay, D. Greenberg, K., Castro, C.C., & Strayer, D.L. (October 2020). Nature modulates neurophysiological correlates of reward. Poster presentation at the 2020 Society of Psychophysiological Research 60th Annual Meeting.
- Lohani, M. Cooper, J.M., Erickson, G.G., Simmons, T.G., **McDonnell, A.S.**, Carriero, A.*, Crabtree, K.W.*, & Strayer, D.L. (October 2020). Application of heart rate variability to assess arousal in semi-automated vehicles. Poster presentation at the 2020 Society of Psychophysiological Research 60th Annual Meeting.
- Lohani, M., Cooper J.M., Erickson, G.G., Simmons, T.G., **McDonnell, A.S.**, Carriero, A.E.*, Crabtree, K.W.*, & Strayer, D.L. (October 2020). Driver arousal and workload under partial vehicle automation: A pilot study. Virtual presentation at the Human Factors and Ergonomics Society 64th Annual Meeting.

McDonnell, A.S., LoTemplo, S.B., Scott, E.E., Castro, S.C., McNay, D. Greenberg, K., & Strayer, D.L. (October 2019). Reward Positivity as a Biomarker of Attention Restoration in Nature. Poster presentation at the 2019 SHIFT Conference in Jackson, Wyoming.

Scott, E.E., **McDonnell, A.S.**, LoTemplo, S.B., Castro, S.C., McNay, D. Greenberg, K., & Strayer, D.L. (October 2019). Prolonged Exposure to Nature Modulates Neural Biomarkers of Attention. Poster presentation at the 2019 SHIFT Conference in Jackson, Wyoming.

LoTemplo, S.B., Scott, E.E., **McDonnell, A.S.**, Hopman, R.J., McKinney, T.L., Payne, B.R., & Strayer, D.L. (October 2019). Nature as a potential modulator of the error-related negativity. Poster presentation at the 2019 SHIFT Conference in Jackson, Wyoming.

LoTemplo, S.B., Scott, E.E., **McDonnell, A.S.**, Hopman, R.J., McKinney, T.L., Payne, B.R., & Strayer, D.L. (November 2019). Nature as a potential modulator of the error-related negativity. Poster presentation at the 2019 Psychonomic Society 60th Annual Meeting in Montréal, Québec, Canada.

Crabtree, K.W.*, Scott, E.E., Hopman, R.J., McKinney, T.L., **McDonnell, A.S.**, Strayer, D.L., & Uchino, B.N. (November 2019). Virtual environments' effects of working memory and mood: A pilot study. Poster presentation at the 2019 Psychonomic Society's 60th Annual Meeting in Montréal, Québec, Canada.

UNDERGRADUATE RESEARCH SUPERVISED

Storie, M. (Spring 2023 & Summer 2023). Influence of nature on effortful processing of emotionally charged stimuli. *Funded by the Undergraduate Research Opportunity Program (\$1,200), presented at the Undergraduate Research Symposium, completed as part of the undergraduate Human Factors Certificate Program, and published in the Undergraduate Research Journal.*

Richins, J. (Fall 2022 & Spring 2023). Effects of natural and urban imagery on the brain's reward processes. *Funded by the Undergraduate Research Opportunity Program (\$2,400).*

Shannon, M.F. (Summer 2022). Influence of environmental imagery on neurophysiological correlates of attention. *Funded by the Odyssey Program for Undergraduate Research at Hendrix College (\$5,000) and presented at the Undergraduate Research Symposium.*

Quick, A. (Summer 2022 & Fall 2022). Effects of natural and urban imagery on error-related negativity. *Funded by the Undergraduate Research Opportunity Program (\$2,400), completed as part of the undergraduate Human Factors Certificate Program, presented at the Undergraduate Research Symposium, and published in the Undergraduate Research Journal.*

Macfarlane, M. (Summer 2022 & Fall 2022). The influence of nature images on the neurophysiology of attention. *Funded by the Undergraduate Research Opportunity Program (\$2,400), presented at the Undergraduate Research Symposium, presented at the 2023 Utah Conference for Undergraduate Research, and published in the Undergraduate Research Journal.*

Schulz, C. (Spring 2022). Effects of natural and urban imagery on reward processing in the brain. *Funded by the Undergraduate Research Opportunity Program (\$1,200) and presented at the Undergraduate Research Symposium.*

Jeong, S. (Spring 2022). The effect of listening to degraded speech on driving performance in a simulator. University of Utah. *Funded by the Undergraduate Research Opportunity Program (\$1,200) and presented at the Undergraduate Research Symposium.*

Augustin, L. (Summer 2021). The effect of nature imagery on event-related brain potentials. University of Utah. *Funded by the Summer Program for Undergraduate Research (\$5,000), presented at the Undergraduate Research Symposium and published in the Undergraduate Research Journal.*

- Hoffmann, N. (Summer 2021). The effect of nature imagery on event-related brain potentials. University of Utah. *Funded by Furman University Summer Internship Fellowship Program (\$5,000).*
- Morse, R. (Fall 2020 & Spring 2021). The relationship between self-reported motivation and the error-related negativity. University of Utah. *Funded by the Undergraduate Research Opportunity Program (\$2,400), presented at the Undergraduate Research Symposium and published in the Undergraduate Research Journal.*
- Morse, R. (Summer 2020). Measuring cognitive control and response to reward using electroencephalography. University of Utah. *Funded by the Summer Program for Undergraduate Research (\$5,000).*
- Weaver, V. (Fall 2019). Effect of cell phone use on driving behavior. University of Utah. *Completed as part of the undergraduate Human Factors Certificate Program.*

VOLUNTEER AND OUTREACH

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| Tracy Aviary , Salt Lake City, UT
<i>Community-driven Research – Lead Researcher</i> | 2022-Present |
| Utah Conference for Undergraduate Research , Salt Lake City, UT
<i>Poster Session Judge</i> | February 2023 |
| Utah Prison Education Program - Utah State Prison , Salt Lake City, UT
<i>Psychology Instructor</i> | 2021-2022 |
| Emerging Leaders Program , Jackson, WY
<i>Advisory Council</i> | 2021-2022 |
| Undergraduate Research Symposium , Salt Lake City, UT
<i>Poster Session Judge</i> | August 2021 |
| Mathematics, Engineering, and Science Achievement Program , Salt Lake City, UT
<i>Outreach Presentation</i> | March 2021 |
| Bright Futures , Park City, UT
<i>Outreach Presentation</i> | February 2021 |
| Girls in STEM, University of Utah , Salt Lake City, UT
<i>Volunteer</i> | February 2019 |

PROFESSIONAL SERVICE

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| Guest Editor , Cognitive Research: Principles and Implications
Special Issue: <i>Automation and Human Cognition</i> | 2023-2024 |
| Ad Hoc Reviewing
International Journal of Human-Computer Interaction, Cognitive Research: Principles and Implications, Frontiers in Psychology, Frontiers in Neuroergonomics, Human Factors, Journal of Environmental Psychology | |
| Departmental Service | |
| Diversity Graduate School Application Advisory , University of Utah, Department of Psychology | 2019-Present |
| Diversity Committee , University of Utah, Department of Psychology | 2018-Present |
| Faculty Tenure Review Committee , University of Utah, Department of Psychology | 2021-2022 |
| Professional Issues & Ethics Committee Elected Representative , University of Utah | 2020-2021 |
| PsychoPy Research Group – Co-Founder University of Utah, Department of Psychology | 2019-2020 |
| International Assistants Program , Boston College | 2014-2015 |

POPULAR MEDIA

PBS: America Outdoors with Baratunde Thurston, Season 2, Episode 5	2023
IMPACT Magazine: This is Your Brain on Nature https://impactmagazine.ca/health/health-and-wellness/this-is-your-brain-on-nature/	2021

PROFESSIONAL MEMBERSHIPS

Society for Neuroscience, Human Factors and Ergonomics Society, Society for Psychophysiological Research, Association for Psychological Science, Open Science Framework

SKILLS

Proficient in R, R Markdown, Python, PsychoPy, MATLAB, EEGLab, ERPLab, E-Prime, event-related potential, frequency, and time-frequency techniques

Experience using electroencephalography (EEG), electrocardiography (ECG), detection response task (DRT), BORIS naturalistic video coding, BioPac Systems, BrainVision Systems, driving simulation technology, multimethod on-road vehicle assessment, and field-based physiological data collection.

ACADEMIC REFERENCES

David L. Strayer, Ph.D., Professor of Psychology, University of Utah, david.strayer@utah.edu

Cory S. Inman, Ph.D., Assistant Professor of Psychology and Neuroscience, University of Utah, cory.inman@psych.utah.edu

Jeanine K. Stefanucci, Ph.D., Professor of Psychology, University of Utah, jeanine.stefanucci@psych.utah.edu

Paula G. Williams, Ph.D., Professor of Clinical and Health Psychology, University of Utah, paula.williams@psych.utah.edu

Sarah H. Creem-Regehr, Ph.D., Department Chair and Professor of Psychology, University of Utah, sarah.creem@psych.utah.edu