

Kimberly Lewis Meidenbauer

Curriculum Vita

CONTACT INFO

Washington State University
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Web: [WSU Faculty Page](#) | [Personal Website](#)
[Research Gate Profile](#) | [OSF Profile](#)
[Twitter](#) | [Google Scholar](#)

ACADEMIC APPOINTMENTS

- 2023 – present** *Assistant Professor*
Washington State University, Department of Psychology
WSU Health Equity Research Center
- 2021 – 2022** *Postdoctoral Scholar*
University of Chicago, Department of Psychology
Environmental Neuroscience Lab, Director: Marc Berman
- 2020 – 2021** *Postdoctoral Teaching Fellow in the Social Sciences*
University of Chicago, Department of Psychology

EDUCATION

- 2020** **The University of Chicago, Department of Psychology**
Ph.D. in Psychology (Integrative Neuroscience Program)
Dissertation: The Role of Preference in the Affective and Cognitive Benefits of Nature
Committee: Marc Berman, Alex Shaw, Ed Vogel, & Christine Larson
- 2016** **The University of Chicago, Department of Psychology**
M.A. in Psychology (Integrative Neuroscience Program)
Thesis: Distinct Components of Empathy and their Neurophysiological Markers
Committee: Jean Decety, Marc Berman, Jennifer Kubota
- 2012** **University of Wisconsin-Milwaukee**
B.A. in Psychology with Honors, *summa cum laude*
Senior Thesis: Does Attention Play a Mediating Role in Affective Empathy?
Advisor: Christine Larson

RESEARCH OVERVIEW

My research spans the fields of *environmental, social, and cognitive psychology*. I am broadly interested in how elements of the physical environment can influence our brains and affect our behavior. I *combine behavioral and neuroimaging methods* (fNIRS) to study psychological processes at multiple levels. I'm also very interested in *task development*, an advocate for *open science practices*, and trying to 'take the lab outside' to study questions of interest in real world environments.

GRANT SUPPORT

CURRENT

NSF Strengthening American Infrastructure (SAI)

September 2023 – 2026

Project title: “Identifying Features of Healthy and Equitable Public Spaces”

Grant PI: Dr. Kimberly Quinn

Role: Co-PI

Total Award Amount: \$750,000

PENDING

NIH R01 Proposal NIA

Project title: Protecting Older Adults’ Cognition in a Warming World: A Multi-Modal Investigation of Heat-Induced Cognitive Impairment in Everyday Life

Role: PI

Amount Requested: \$2,079,985

Robert Wood Johnson Foundation: Addressing Childhood Obesity and Health Inequities

Project title: Child Health in Under-Resourced Communities: an Innovative Obesity Prevention Approach Promoting Outdoor Time, Sleep, and Neurocognition (CURIOUS)

Grant PI: Dr. Amber-Fyfe Johnson

Role: Co-I

Amount Requested: \$2,433,435

NSF Science and Technology Center Pre-proposal

Project / Center title: FOREST (Forest Outcomes and Research for Ecosystem Services and Technologies)

PI: Dr. Austin Himes

Role: Senior Personnel

COMPLETED

WSU HERC Research Pilot Funds

July 2023 – 2024

Role: PI

Amount: \$10,000

Center for Health Administration Studies (CHAS) Seed Grant

July 2020 – 2022

Grant PI: Marc Berman

Role: Co-Investigator

Amount: \$10,000

AWARDS & FELLOWSHIPS

WASHINGTON STATE UNIVERSITY

NIA Behaviorome Faculty Fellow Program

September 2023-2025

Grant PIs: Maureen Schmitter-Edgecombe & Diane Cook

Amount: \$25,000

WSU STUDENT & TRAINEE AWARDS

- Tiara Freeman (PhD student): WSU GSPA Expo 3rd Place Poster for the Social and Physical Sciences, March 2024
- Isabella Santiago (Undergraduate RA): James A. Weir Undergraduate Research Fellowship, Fall 2024
- Tiara Freeman (PhD Student): 2023 Graduate Diversity Advancement Pathways Program (GDAPP)

UNIVERSITY OF CHICAGO

NSF SBE Postdoctoral Research Fellowship 2022

Application rated as Highly Competitive, withdrew from consideration upon accepting faculty position at WSU

William Rainey Harper Dissertation Year Fellowship 2019 – 2020

Highly competitive fellowship (1 awarded for all applicants in Social Sciences Division) providing full tuition and stipend for additional year of PhD work

Norman Anderson Award Spring 2020

Research Funding, Amount: \$1000

Norman Anderson Award Winter 2017

Conference Travel Funding, \$800

Norman Anderson Award Fall 2015

Conference Travel Funding, \$400

PUBLICATIONS & PRESENTATIONS

* indicates co-first authorship ^ indicates mentored student

PEER-REVIEWED ARTICLES

1. **Meidenbauer, K. L.**, Schertz, K. E., Janey, E., Stier, A., Samtani, A. L., Gehrke, K., Tucker, R., Hasan, M., & Berman, M. G. (2024). [Evidence for environmental influences on impulsivity and aggression](#). *Urban Forestry and Urban Greening*.
2. Sahni, P.S., Rajyaguru, C., Narain, K., **Meidenbauer, K. L.**, Jyoti, K., Schonert-Reichl, K. A. (2024). [Neural Dynamics of Nature Empathy in Children: An EEG/ERP study](#). *Current Research in Ecological and Social Psychology*.
3. **Meidenbauer, K. L.**, Schertz, K. E., Li, P., Sharma, A., Freeman, T. R., Stier, A., ... Berman, M. (2024). [Variable and dynamic associations between hot weather, thermal comfort, and individuals' emotional states during summertime](#). *BMC Psychology (Climate Change & Mental Health Special Collection)*.
4. Akcelik, G. N., Choe, K. W., Rosenberg, M. D., Schertz, K. E., **Meidenbauer, K. L.**, Zhang, T., Talen, E., & Berman, M.G. (2024) [Quantifying Urban Environments: Aesthetic Preference Through the Lens of Prospect-Refuge Theory](#). *Journal of Environmental Psychology*.
5. Lyu, Y., Su, Z., Neumann, D., **Meidenbauer, K. L.**, & Leong, Y. C. (2024). [Hostile attribution bias shapes neural synchrony in the left ventromedial prefrontal cortex during ambiguous social narratives](#). *Journal of Neuroscience*.
6. Schertz, K. E., Kotabe, H. P., **Meidenbauer, K. L.**, Layden, E. A., Zhen, J., Bowman, J. E., Lakhtakia, T., Lyu, M., Paraschos, O. A., Janey, E. A., Samtani, A. L., Stier, A. J., Gehrke, K., Van Hedger, S. C., Vohs, K. D., &

- Berman, M. G. (2023). [Nature's path to thinking about others and the surrounding environment](#). *Journal of Environmental Psychology*, 89, 102046.
7. **Meidenbauer, K. L.**, Choe, K., Bakkour, A., Inzlicht, M., Meidenbauer, M. L., & Berman, M. G. (2023). [Characterizing the role of impulsivity in costly, reactive aggression using a novel paradigm](#). *Behavior Research Methods*.
 8. **Meidenbauer, K. L.***, Niu, T.*, Choe, K. W., Stier, A. J., & Berman, M. G. (2023). [Mouse movements reflect personality traits and task attentiveness in online experiments](#). *Journal of Personality*, 91(1), 413-425.
 9. Zhuang, C.*^, **Meidenbauer, K. L.***, Kardan, O., Stier, A. J., Choe, K. W., Cardenas-Iniguez, C., Huppert, T. J., & Berman, M. G. (2022). [Scale Invariance in fNIRS as a Measurement of Cognitive Load](#), *Cortex*, 154, 62-76.
 10. Talen, E., Choe, K. W., Akcelik, G. N., Berman, M. G., & **Meidenbauer, K. L.** (2022). [Street design preference: an on-line survey](#). *Journal of Urban Design*, 1-24.
 11. **Meidenbauer, K. L.**, Choe, K. W., Cardenas-Iniguez, C., Huppert, T.J., & Berman, M. G. (2021) [Load-dependent relationships between frontal fNIRS activity and performance: A data-driven PLS approach](#). *NeuroImage*. 117795.
 12. Berman, M.G., Stenfors, C.U.D., Schertz, K.E., & **Meidenbauer, K.L.** (2021). [Response to "Conceptual replication study and meta-analysis suggest simulated nature does not reliably restore pure executive attention measured by the Attention Network Task."](#) *Journal of Environmental Psychology*, 78, 101719.
 13. **Meidenbauer, K. L.**, Stenfors, C. U. D., Bratman, G. N., Gross, J. J., Schertz, K. E., Choe, K. W., & Berman, M. G. (2020). [The affective benefits of nature exposure: What's nature got to do with it?](#) *Journal of Environmental Psychology*, 72.
 14. **Meidenbauer, K. L.**, Stenfors, C. U. D., Ingram, M. P., & Berman, M. G. (2019). [A tablet-based task for assessing environmental preferences in children and adults](#). *MethodsX*, 6, 1901-1906.
 15. **Meidenbauer, K. L.**, Stenfors, C., Young, J., Layden, E. A., Schertz, K. E., Kardan, O., Decety, J., & Berman, M. G. (2019). [The gradual development of the preference for natural environments](#). *Journal of Environmental Psychology*, 65.
 16. **Meidenbauer, K. L.**, Cowell, J. M., & Decety, J. (2018). [Children's neural processing of moral scenarios provides insight into the formation and reduction of in-group biases](#). *Developmental Science*, e12676.
 17. Decety, J., **Meidenbauer, K. L.**, & Cowell, J. M. (2017). [The development of cognitive empathy and concern in preschool children: A behavioral neuroscience investigation](#). *Developmental Science*, e12570.
 18. **Meidenbauer, K. L.**, Cowell, J. M., Killen, M., & Decety, J. (2016) [A developmental neuroscience study of moral decision-making regarding resource allocation](#). *Child Development*, 89, 1177-1192.
 19. Decety, J., **Lewis, K. L.**, & Cowell, J. M. (2015). [Specific electrophysiological components distinguish affective sharing and empathic concern in psychopathy](#). *Journal of Neurophysiology*, 114(1), 493-504.
 20. **Lewis, K. L.**, Taubitz, L. E., Duke, M. W., Steuer, E. L., & Larson, C. L. (2015) [State rumination enhances elaborative processing of negative material as evidenced by the late positive potential](#). *Emotion*, 15(6), 687-693.
 21. Humphries, C., Sabri, M., **Lewis, K.** & Liebenthal, E. (2014). [Hierarchical organization of auditory cortex in speech perception](#). *Frontiers in Neuroscience*, 8:406.

PREPRINTS & MANUSCRIPTS UNDER REVIEW

22. Shin, W., Choe, K. W., Ahn, J., Sul, S., & **Meidenbauer, K. L.** (2024) The rich get richer: How economic affluence influences challenge-seeking behavior.
23. Schertz, K. E.*, **Meidenbauer, K. L.***, Freeman, T. R.^, Santiago, I. ^, Janey, E., Gehrke, K., ... Berman, M. (2024, September 13). Identifying qualities and amenities associated with subjective cognitive restoration and improved affect in urban parks. <https://doi.org/10.31234/osf.io/38469> *Under Review at Journal of Environmental Psychology*
24. Michael, A., Chen, C., ..., **Meidenbauer, K. L.**, et al. (2024, November 14). Climate Change and Brain Health: Current Insights and Emerging Evidence. *Submitted to The Lancet Planetary Health*.
25. Stute, K., Gossa, L., ... **Meidenbauer, K. L.**, et al. (2024, November 20). The fNIRS Glossary Project: A Consensus-based Resource for Functional Near-Infrared Spectroscopy Terminology. *Submitted to Neurophotonics*. <https://osf.io/preprints/osf/7xn3b>

BOOK CHAPTERS

26. Schertz, K. E.*, **Meidenbauer, K. L.***, & Berman, M. G. (2021) Understanding the Affective Benefits of Interacting with Nature. In E. Brymer, M. Rogerson, & J. Barton (Ed.) *Nature, Physical Activity and Health*. London, UK: Routledge. DOI: 10.4324/9781003154419-2
27. Berman, M. G., Cardenas-Iniguez, C., & **Meidenbauer, K. L.** (2021) *An Environmental Neuroscience Perspective on the Benefits of Nature*. Proceedings from the 67th Nebraska Symposium on Motivation--Nature and Psychology. https://link.springer.com/chapter/10.1007%2F978-3-030-69020-5_4

INVITED TALKS & SYMPOSIA

1. *Hot and Bothered: The Negative Psychological Impacts of Thermal Discomfort*. Talk given at the WSU Experimental Psychology Seminar Series, November 20, 2024.
2. *Hot, Angry, & Tired: The effects of thermal discomfort on negative emotions and cognitive performance*. Talk given at the APA Division 34 (Society for Environment, Population, and Conservation Psychology) Annual Conference, September 27, 2024.
3. *Diversifying environmental psychology research and methods*. Panelist for APA Division 34 (Society for Environment, Population, and Conservation Psychology) Webinar, July 23, 2024.
4. *The effects of heat on emotion, cognition, and more*. Talk given at the June meeting of the NeuroClimate Working Group, June, 24, 2024.
5. *Evaluating the neurocognitive benefits of attending a nature-based Chicago school*. Talk given at the UChicago fNIRS User Group Meeting, April 18, 2024
6. *Environmental predictors of trait impulsivity and aggression: Associations and potential mechanisms*. Talk given at the APA Division 34 (Society for Environment, Population, and Conservation Psychology) Annual Conference, October 20, 2023.
7. *Assessing and Addressing Environmental Disparities to Improve Psychological Well-being*. Talk given at Nature & Health Community Dinner, University of Washington Center for Urban Horticulture, January 26, 2023.

8. *Mapping Environmental Disparities in Chicago: Implications for Crime and Psychological Well-being.* Talk given at DePaul University, October 28, 2022.
9. *Links between Environmental Disparities, Socioeconomic Disadvantage, and Crime in Chicago: Preliminary Results and Future Directions.* Talk given at the APA Division 34 Inaugural Online Conference, June 17, 2022.
10. *Is nature only good for us because we like it?* Elmhurst College Psychology Club Research Talk, Feb 27, 2020, Elmhurst, IL.
11. *Children's environmental preferences.* 3rd annual Wolf Lake Watershed Advisory Committee Meeting, Nov 1, 2019, Whiting, IN.

POSTERS & PRESENTATIONS

1. Santiago, I. M.^, Schmitter-Edgecombe, M., Cook, D., Minor, B., Luna, C., Freeman, T. R., & **Meidenbauer, K. L.** (2024). *Measuring the impact of temperature on cognition using ecological momentary assessment.* Advancing Diversity in Aging Research, Seattle, WA, November 2024.
2. Stilson, P.J.^, Freeman, T. R., Schmitter-Edgecombe, M., Cook, D., Minor, B., & **Meidenbauer, K. L.** (2024). *Examining the effects of ambient temperature on cognitive performance in older adults.* Washington State University Summer Undergraduate Research Symposium, Pullman, WA, August 2024.
3. Santiago, I. M.^, Schmitter-Edgecombe, M., Cook, D., Minor, B., Luna, C., Freeman, T. R., & **Meidenbauer, K. L.** (2024). *Measuring the impact of temperature on cognition using ecological momentary assessment.* Washington State University Summer Undergraduate Research Symposium, Pullman, WA, August 2024.
4. Freeman, T. R.^, **Meidenbauer, K. L.**, Schertz, K. E., Janey, E. A., Santiago, I., & Berman, M. G. (2024). *"Where can I launch my boat?" The effects of racialization and SES on access to (and perceptions of) quality urban parks.* Presented at the Community Research In Action in the West (CRA-W) Conference, Tacoma, WA, April 2024.
5. Freeman, T. R.^, **Meidenbauer, K. L.**, Schertz, K. E., Janey, E. A., & Berman, M. G. (2024). *Is it me or just the heat? Examining personality factors and negative emotions due to heat stress.* Presented at the GPSA Expo, Washington State University, March 2024.
6. **Meidenbauer, K. L.**, Freeman, T. R.^, Schertz, K. E., Li, P., Sharma, A., & Berman, M. G. (2024). *"Too hot? Feels fine to me!" Feelings of thermal discomfort but not actual or perceived temperature predict negative emotional states.* Presented at the Emotion Preconference of the Society for Personality and Social Psychology (SPSP) Annual Convention, San Diego, CA, February 2024.
7. Freeman, T. R.^, **Meidenbauer, K. L.**, Schertz, K. E., Janey, E. A., & Berman, M. G. (2024). *Is it me or just the heat? Examining personality factors and negative emotions due to heat stress.* Presented at the GPSA Expo, Washington State University, March 2024.
8. **Meidenbauer, K. L.**, Schertz, K. E., Janey, E. A., & Berman, M. G. (2024). *"Racial and economic disparities in access to emotionally restorative urban greenspaces.* Presented at the Society for Personality and Social Psychology (SPSP) Annual Convention, San Diego, CA, February 2024.
9. Freeman, T. R.^, **Meidenbauer, K. L.**, Schertz, K. E., Janey, E. A., & Berman, M. G. (2024). *Is it me or just the heat? Examining personality factors and negative emotions due to heat stress.* Presented at the Society for Personality and Social Psychology (SPSP) Annual Convention, San Diego, CA, February 2024.

10. Janey, E. A. ^, **Meidenbauer, K. L.**, Schertz, K. E., Oishi, S., & Berman, M. G. (2024). *Predicting experienced affect in public parks cross ethnicities*. Presented at the Society for Personality and Social Psychology (SPSP) Annual Convention, San Diego, CA, February 2024.
11. **Meidenbauer, K. L.** (2022). *Overview and introduction to functional near-infrared spectroscopy (fNIRS)*. Presented at the UChicago Center for Advanced Studies fNIRS Workshop, Chicago, IL, October 2022.
12. Seccia, A., **Meidenbauer, K. L.**, Guo, X., Janey, E. A., Berman, M. G., & Goldin-Meadow, S. (2022). *The neurobiological mechanisms underlying gesture's role in mathematical learning*. Presented at Society for Functional Near-Infrared Spectroscopy (sfNIRS), Boston, MA, October 2022.
13. **Meidenbauer K. L.**, Schertz, K.E., & Berman, M.G. (2022) *Identifying the Psychological Mechanisms Linking Urban Greenspace Use and Reduced Violent Crime*. Presented at the Annual Convention for the Association of Psychological Science, Chicago, IL, June 2022.
14. Stevenson C., **Meidenbauer K. L.**, Choe, K. W., & Berman, M.G. (2022). *The Importance of Social Context in Vengeance: Personal Aggression Against Oneself Prompts People to Rate Retaliation for Strangers More Favorably Than Retaliation for Friends*. Presented at the Annual Convention for the Association of Psychological Science, Chicago, IL, June 2022.
15. Janey, E., McConnell, K., Schertz, K.E., **Meidenbauer K. L.**, & Berman, M.G. (2022) *The Potential Effects of Preference on the Cognitive Benefits of Natural Environments*. Presented at the Annual Convention for the Association of Psychological Science, Chicago, IL, June 2022.
16. McConnell, K., Janey, E., Schertz, K.E., **Meidenbauer K. L.**, & Berman, M.G. (2022) *Attention Restoration Theory: Restoration Potential of Various Cognitive Tasks*. Presented at the Annual Convention for the Association of Psychological Science, Chicago, IL, June 2022.
17. Stevenson, C., **Meidenbauer K. L.**, Choe, K. W., Shaw, A., & Berman M.G. (2022). *Aggression Against Oneself Evokes Greater Evaluations of Praiseworthiness for Retaliation on Behalf of Strangers vs. Friends*. Presented virtually at the 2022 Social Affective Neuroscience Society (SANS) Annual Conference.
18. Stevenson, C., **Meidenbauer K. L.**, Choe, K. W., Shaw, A., & Berman M.G. (2022). *Having Your Friend's Back: Evaluations of Retaliation on Behalf of Self vs. Friends vs. Strangers*. Presented virtually at the 2022 Society for Personality and Social Psychology (SPSP) Annual Convention, San Francisco, CA.
19. Letourneau-Freiberg, L. R., **Meidenbauer, K. L.**, Denson, A. M., Tian, P., Choe, K. W., Berman, M. G., Greely, S. A. W. (2020). *Use of Functional Near-infrared Spectroscopy (fNIRS) To Assess Cognitive Effort In KATP-Related Neonatal Diabetes (KATP-NDM)*. Presented at the American Diabetes Association 80th Scientific Session, June 2020.
20. **Meidenbauer, K. L.**, Choe, K. W., Cardenas-Iniguez, C., Huppert, T.J., & Berman, M. G. (2020). *Frontal fNIRS Activity Predicts Performance Differently Across Levels of Cognitive Load*. Poster presented at the Association for Psychological Science Annual Meeting Virtual Poster Showcase, June 2020.
21. **Meidenbauer, K. L.** (2019) *Task-evoked fNIRS activity during an n-back task*. Talk given at the winter meeting of the University of Chicago fNIRS User Interest Group, Jan 2020.
22. **Meidenbauer, K. L.** (2019) *Using fNIRS activation as a neural index of cognitive effort*. Talk given at the University of Chicago Cognition Workshop, May 2019.
23. **Meidenbauer, K. L.** (2019) *Fundamentals of Functional Near-Infrared Spectroscopy*. Talk given at the first meeting of the University of Chicago fNIRS User Interest Group, February 2019.
24. **Meidenbauer, K. L.** (2018) *The Gradual Development of Nature Preferences*. Talk given at the University of Chicago Cognition Workshop, November 2018.

25. Young, J., **Meidenbauer, K.L.**, Choe, KW., Berman, M.G. (2018). *Functional Near-Infrared Spectroscopy Imaging of Auditory and Visual Cortex*. Presented at the Annual University of Chicago Neuroscience Retreat, New Buffalo, MI, September 2018.
26. **Meidenbauer, K. L.**, Cowell, J. M. & Decety, J. (2017). *Neurophysiological Indices of Conflicting Group Attitudes and Incongruent Moral Behaviors*. Presented at Biennial Meeting of the Society for Research in Child Development, Austin, April 2017.
27. **Meidenbauer, K. L.**, Cowell, J. M., & Decety, J. (2017). *Developmental Changes in the Neural Processing of Equity and Equality in Resource Allocation*. Presented at the Biennial Meeting of the Society for Research in Child Development, Austin, April 2017.
28. **Lewis, K. L.**, Cowell, J. M., & Decety, J. (2015). *Neural Correlates of Contextualized Moral Decision Making in Children and Adolescents*. Presented at Society for Social Neuroscience Annual Meeting, Chicago, October 2015.
29. **Lewis, K. L.**, Cowell, J. M., & Decety, J. (2015). *Electrophysiological Signatures of Distinct Facets of Empathy and Their Relation to Trait Empathy and Psychopathy*. Presented at Society for Neuroscience Annual Meeting, Chicago, October 2015.
30. Sabri, M., **Lewis, K.**, Humphries, C. J., & Liebenthal, E. (2014). *Differential neural adaptation of spectral transition and steady-state features in speech and nonspeech*. Presented at Society for Neuroscience Annual Meeting, Washington D.C., November 2014.
31. Humphries, C., Sabri, M., Heugel, N., **Lewis, K.** & Liebenthal, E. (2013). *Pattern Specific Adaptation to Speech and Nonspeech Sounds in Human Auditory Cortex*. Presented at the Society for Neuroscience Annual Meeting, San Diego, November 2013.
32. **Lewis, K. L.**, Robinson, J.S., & Larson, C. L. (2012). *ERPs during Emotion Regulation Task Affected by Symptoms of Dissociation in PTSD Patients*. Presented at the Society for Psychophysiological Research Conference, New Orleans, September 2012 and the International Neuropsychology Society (INS) Conference, Montreal, Canada, February 2012.
33. Taubitz, L. E., **Lewis, K. L.** & Larson, C. L. (2012). *Emotion Modulation of the P2 ERP Component in Dysphoric and Non-Dysphoric Subjects and its Modification by SSRI Treatment*. Presented at the Society of Biological Psychiatry Annual Scientific Convention & Program, Philadelphia, May 2012.
34. Taubitz, L. E., **Lewis, K. L.**, & Larson, C. L. (2011). *Elaborating the Time Course of Attentional Bias in Dysphoria: Combining Event-Related Potential and Behavioral Measures*. Presented at the Society for Psychophysiological Research Conference, Boston, September 2011.
35. **Lewis, K. L.**, Steuer, E. L., Duke, M. W., Taubitz, L. E., Belleau, E. L., & Larson, C. L. (2011). *Frontal Late Positive Potential Predicts Subsequent Memory for Pleasant Pictures*. Presented at the Society for Psychophysiological Research Conference, Boston, September 2011.

RESEARCH POSITIONS

Environmental Neuroscience Lab (Dr. Marc G. Berman) <i>Graduate Research Assistant & Postdoctoral Scholar</i> University of Chicago	2017 – 2022
Social Cognitive Neuroscience Lab & Child Neurosuite (Dr. Jean Decety) <i>Graduate Research Assistant</i> , University of Chicago	2014 – 2016

Affective Neuroscience Lab (Dr. Christine L. Larson) <i>Undergraduate Researcher & Post-Baccalaureate Research Technician</i> University of Wisconsin-Milwaukee	2010 – 2014
Speech Perception Lab (Dr. Merav Sabri & Dr. Einat Liebenthal) <i>Lab Manager, Medical College of Wisconsin</i>	2012 – 2014
Brain Injury Research Lab (Dr. Michael McCrea) <i>Research Technician, Medical College of Wisconsin</i>	2012
Inquiries in Affective Science Lab (Dr. Nakia Gordon) <i>Research Technician, Marquette University</i>	2012
F.E.A.R. Lab (Dr. Shawn Cahill) <i>Undergraduate Research Assistant, University of Wisconsin-Milwaukee</i>	2010

TEACHING

<i>Assistant Professor at Washington State University</i> Cognition & Affective Bases of Behavior (Psych 592) Environmental Psychology (Psych 466) Psychology of Happiness (Psych 223)	Spring 2023, Spring 2024 Fall 2023, Spring 2024 Fall 2024
<i>Teaching Fellow at University of Chicago</i> Social Psychology Mind-I (Social Sciences Core class) Mind-II Mind-III	Fall 2020 Fall 2020 Winter 2021 Spring 2021
<i>Graduate Student Instructor at University of Chicago</i> Cognitive Psychology	Summer 2019
<i>Graduate Teaching Assistant at University of Chicago</i> Cognitive Psychology Intro to Developmental Psychology Violence in the Early Years (Public Policy Course) Social Psychology	Spring 2018, Spring 2019 Spring 2017 Winter 2017, Winter 2018 Fall 2016, Fall 2017
<i>Teaching Intern at UW-Milwaukee</i> Introduction to Psychology	Fall 2010

WORKSHOPS & PROFESSIONAL DEVELOPMENT

<i>ADVANCE at WSU Workshop 2024</i> <i>Avoiding Faculty Burnout</i>	April 25, 2024
<i>ELEVATE Teaching Workshop</i> Washington State University	August 16, 2023

<i>ADVANCE at WSU Workshop 2023</i> <i>Rethinking Mentoring</i>	April 26, 2023
<i>WSU New Faculty Grant Workshop</i> Attended monthly meeting and received \$500 for completing all workshop activities	AY 2022-2023
<i>NSF Smart & Connected Communities PI Meeting</i> Arlington, VA	October 10-12, 2022
<i>Advances in fNIRS Methods and Analysis Workshop</i> University of Nebraska-Omaha & Boystown Hospital	April 24-27, 2022
<i>Longitudinal Structural Equation and Latent Growth Modeling</i> Virtual course through Univ Maryland, led by Greg Hancock, PhD	January 19-21, 2022
<i>Structural Equation Modeling: From Beginner to Intermediate</i> Virtual course through Univ Maryland, led by Greg Hancock, PhD	January 3-5, 2022
<i>RepliCATS (Collaborative Assessment for Trustworthy Science)</i> Facilitator, pre-AIMOS repliCATS workshop Discussant, pre-SIPS repliCATS workshop	Nov 18 – 23, 2021 June 22 – 25, 2021
<i>Array of Things Workshop</i> Argonne National Laboratory, Chicago	August 29 – 30, 2018
<i>Advanced fNIRS Data Analysis Workshop</i> University of Pittsburgh, Course led by Ted Huppert, PhD	May 24 – 25, 2018

SERVICE

COMMUNITY STEM. OUTREACH

<i>MAPSCorps Research Advisor</i>	June – August 2022
<ul style="list-style-type: none"> Guided student researchers at MAPSCorps Kenwood High School site to develop a research question and analyze data on the park quality disparities between Chicago neighborhoods 	
<i>MAPSCorps 14th Scientific Symposium Panelist</i>	August 12, 2022
<ul style="list-style-type: none"> Provided feedback on High School and College MAPSCorps student researchers' projects about social and environmental inequities in Chicago neighborhoods 	
<i>High School Research Outreach</i>	May 18, 2023
<ul style="list-style-type: none"> Talked to AP Psych students at Washington Park High School in Racine, WI (alma mater) about psychology research as a career and getting involved in research in college and graduate school 	

SERVICE TO SCIENTIFIC COMMUNITY

Federal Grant Review

Reviewer for <i>NIEHS Exploratory Grants for Climate Change and Health Research Center Development</i>	Aug 1-3, 2023
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Ad-Hoc Manuscript Review ([Web of Science Profile](#))

2017 – present

Scientific Reports
Child Development
Biological Psychology
Journal of Environmental Psychology
Society & Natural Resources
Applied Psychology: Health and Well-Being
Applied Science
International Journal of Environmental Research and Public Health
Psychophysiology
Neuropsychologia
Ecopsychology
Landscape & Urban Planning
NeuroImage
JAMA Psychiatry
Developmental Review
PLOS One
Brain Connectivity
American Psychologist

WASHINGTON STATE UNIVERSITY**University Service**

Judge, 2024 SURCA (Showcase for Undergraduate Research and Creative Activities) March 25, 2024
 Judge, 2023 SURCA (Showcase for Undergraduate Research and Creative Activities) March 27, 2023
 Reviewer, Spring 2023 ADARP Grants April 2023

Departmental Service

Committee in Psychology for Inclusion and Equity (CPIE) AY 2023-2024
 Graduate Student Travel Awards Committee AY 2023-2024
 Search Committee, Career Track Faculty Member AY 2023-2024

UNIVERSITY OF CHICAGO**Center for Advanced Studies fNIRS Workshop**

Autumn 2022

- Co-organized CAS-sponsored fNIRS workshop pilot quarter
- Recruited and developed speaker schedules

U Chicago fNIRS User Interest Group

2019 – 2022

- Co-organized monthly meeting/workshop for University of Chicago labs interested in using fNIRS
- Provided overviews and demos on general principles of fNIRS, data acquisition, experimental design, and analysis

Psychology Graduate Student Organization (U Chicago PGSO) Service

- Health & Wellness Committee Founder and Chair 2017 – 2020
- PGSO President 2016 – 2017
- Graduate Student Mentorship Coordinator 2015 – 2016
- Social Committee Member 2014 – 2016

MENTORSHIP

WSU Experimental Psychology PhD students

- Tiara Rose Freeman (2023-present)
- Erika Lutz (co-advised with Carrie Cuttler; 2024-present)
- Sanaz Dorri Sedeh (incoming student 2025)

WSU Student Committees

- Tiara Freeman (Psychology, Thesis; Committee Chair)
- Josh Stanz (Psychology, Preliminary Exam)
- Sarah Elder (Psychology, Preliminary Exam)
- Nicole Michol (Agriculture/Agricultural Education, M.S. Committee)
- Skylar Nicholson (Psychology, Thesis)
- Robin Rubey (Psychology, Thesis)
- Aria Petrucci (Psychology, Preliminary Exam)

External Student Committees

- Gaby Akcelik (University of Chicago, Dissertation Committee Reader) [2024]

WSU Undergraduate Research Assistants

- Isabella Santiago (*Gerontechnology-Focused Student Undergraduate Research Experience; GSUR Student Spring 2024-Summer 2024*) [2023-present]
- PJ Stilson (*GSUR Student Summer 2024-Fall 2024*) [2024-present]
- Jack Hermanson [2023-present]
- Kaylee Gibbs [2023-present]
- Abigail Wilkinson [2023-present]
- Yanin Duarte-Acosta [2024-present]
- Amanda Doyle [2024-present]
- Kathrine Hubbard [2024-present]
- Lizzie McKim [2024-present]
- Reagan Gautney [2024-present]
- Camdyn Hamilton [2024-present]
- Darren Caruso [2023-2024]

University of Chicago

- Anya Samtani (UChicago Undergrad RA, 2022-2023) Mentored research project on transportation and easy of accessibility in predicting park assessments.
- Elizabeth Janey (UChicago Post-bac RA, 2021-2023) Mentored research projects on belongingness in public spaces, biodiversity, and well-being. Elizabeth joined the University of Chicago Psychology PhD program in 2023.
- Gracie Fischer (UChicago Environmental Health Sciences Trainee, Summer 2021) Mentored research project on perceptions of air quality and crime in Chicago cities. Gracie was accepted into a PhD program in 2023.
- Annie Li (MAPSS Student, 2020-2021). Mentored M.A. thesis on development of online, bonus-based Stop Signal Task.
- Selina Liu (MACSS Student, 2019-2021). Co-mentored M.A. thesis on Mouse Movement and Personality and assisted with turning thesis into a manuscript.

- [Nak Won Rim](#) (MACSS Student, 2019-2021). Co-mentored M.A. thesis on Eyetracking Point of Interest Analysis and assisted with PhD program applications. Nak Won joined the U Chicago Psychology PhD program in Sept 2021.
- [Siyi Fan](#) (MACSS Student, 2018-2020). Co-mentored M.A. thesis on Reliable Preference Rating Through Multiple Image Presentation.
- [Chu Zhuang](#) (MAPSS Student, 2019-2020). Mentored M.A. Thesis on Scale Invariance in fNIRS as a Measurement of Cognitive Effort. Supervised and co-wrote Chu's first-author manuscript based on her thesis. Chu was accepted into a PhD program in 2023.
- [Jillian Bowman](#) (Undergraduate RA, 2017-2020). Provided mentorship and data analysis assistance on B.A. thesis project, assisted with professional development. Jillian was accepted to medical school in 2020.
- [Tanvi Lahktakia](#) (Undergraduate RA, 2017-2020). Provided mentorship and data analysis assistance on B.A. thesis project, mentored on research job and PhD application process. Tanvi was accepted to a PhD program in Clinical Psychology in 2024.
- [Jaime Young](#) (Post-MA Research Assistant, 2017-2019). Mentored on research projects and PhD program applications. Jaime was accepted into a PhD program in psychology in 2019.

MEDIA COVERAGE

General:

- **Psychology Today** [Verified contributor](#): Creator of [Environ-Mentality Blog](#)
 - 2024 posts:
 - [What Can We Do to Protect Our Brains From Heat?](#)
 - [What Does Body Temperature Have to Do with Depression?](#)
 - 2023 posts:
 - [How Much Nature Exposure is Enough?](#)
 - [The Promise of Studying Human Aggression in the Wild](#)
 - [Visiting Parks Makes Us Happier, so Why Don't We Do It More?](#)
 - [Feeling Disconnected from Others? Time in Nature Can Help](#)
 - [How Concerned Should We Be About Heat Waves?](#)
 - [Should Changing your Environment Be Your New Years Resolution?](#)

Podcast & Radio Interviews

- [Nature & Nurture Podcast](#) (Episode 68) and [Psychology Today](#)
- [Something Offbeat Podcast](#) (Ukuleles on a plane: How surroundings control our mood)
- [Doing Well: The Wellbeing Science Insights Podcast](#) (Episode 19: Barriers to Connecting with Nature)
- [Speak of Psychology Podcast](#) (Episode 291: Mental Health in a Warming World)
- [NPR Los Angeles Air Talk](#) With a weekend heat wave rolling in, how does heat affect our brain?
- [Doctor Radio: The Psychiatry Show](#) (Sirius XM radio; July 9, 2024)

Interviews on Heat Stress and the Brain

- [WA State Department of Health Blog](#): [Keeping Your Cool When You're Feeling The Heat](#)
- [Bloomberg](#) [Extreme Heat Is Making Our Mental Health Worse](#)
- [Scientific American](#) [Summertime Sadness Could Be a Type of Seasonal Affective Disorder](#)
- [New York Times](#) [How heat affects the brain](#)
- [CNN](#) [Why some scientists think extreme heat could be the reason people keep disappearing in Greece](#)
- [APA Monitor](#) June 2024 Cover Story: [How heat affects the mind](#)
- [The Seattle Times](#): [New count of WA's past heat wave deaths gives a 'warning to the PNW'](#)

SCENE Lab Research

- *WSU Insider*: [Feeling hot triggers impulsive behavior and irritability](#)
- *WSU Insider*: [Doctoral student Tiarã Freeman connects the environment to mental health](#)
- *Real Simple Magazine* (April 2024 issue): A natural connection

NSF Grant on Healthy and Equitable Public Spaces

- [Mapping Emotions: Researchers to Track Psychology, Equity of Public Spaces](#)
- [Chicago Tribune: How do public spaces make you feel? DePaul University measuring equity by tracking how people respond to urban design](#)

The RC-RAGE reactive aggression task:

- [Psychonomic society featured content: *Feel my rage! Studying reactive aggression*](#)

Children's environmental preferences:

- UChicago News: *Children don't like nature as much as adults—but preferences change with age.* <https://news.uchicago.edu/story/children-dont-nature-much-adults-preferences-change-age>
- Research also covered by the Times, London and Talk Radio London.

TECHNICAL SKILLS

- **Statistical Analysis** using R (Frequentist & Bayesian statistics) and Matlab (multivariate analysis)
- **Neuroimaging** expertise in multiple modalities (EEG, fNIRS, fMRI), designing, collecting, and analyzing data
- **Experimental design** and programming (E-prime, Qualtrics, JavaScript, PsychoPy)

COMMITMENT TO OPEN SCIENCE PRACTICES

- All of my pre-registrations, shared data, shared analysis code, experiment code, and other study materials can be found on my [Open Science Framework \(OSF\) Profile](#)
- [Templates for collaborative pre-registrations on OSF](#)
- Member of University of Chicago chapter of ReproducibiliTea 2019-2022 ([OSF site](#)) ([Twitter](#))
- “How to Conduct a Preregistration” Demo presented at UChicago ReproducibiliTea meeting, March 3, 2022