

Kimberly Lewis Meidenbauer

Curriculum Vita

CONTACT INFO

Washington State University
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[Research Gate Profile](#) | [OSF Profile](#)
[Google Scholar](#) | [LinkedIn](#)

ACADEMIC APPOINTMENTS

- | | |
|-----------------------|--|
| 2023 – present | <i>Assistant Professor</i>
Washington State University, Department of Psychology |
| 2021 – 2022 | <i>Postdoctoral Scholar</i>
University of Chicago, Department of Psychology
Environmental Neuroscience Lab, Director: Marc Berman |
| 2020 – 2021 | <i>Postdoctoral Teaching Fellow in the Social Sciences</i>
University of Chicago, Department of Psychology |

EDUCATION

- | | |
|-------------|--|
| 2020 | The University of Chicago, Department of Psychology
Ph.D. in Psychology (Integrative Neuroscience Program) |
| 2016 | The University of Chicago, Department of Psychology
M.A. in Psychology (Integrative Neuroscience Program) |
| 2012 | University of Wisconsin-Milwaukee
B.A. in Psychology with Honors, <i>summa cum laude</i> |

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 direct the [Social, Cognitive, and Environmental Neuroscience \(SCeNe\) Lab](#) at Washington State University, where we research how ***heat, air pollution, and greenspace can affect our well-being, cognition, physical health and social interactions***. Our lab's work combines behavioral and neuroimaging methods (EEG & 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

Roles:

- A) Provided initial idea
- B) Developed research design & hypotheses
- C) Authorship of grant application
- D) Managed personnel or project activities

Grant Funding & Application Summary (2023-2025)

	External	Internal	Total
Submitted	16 ^a	9 ^b	25
Awarded	2	2	4
Amount	\$164,975	\$15,000	\$179,975

^a 2 pre-proposals (not invited for full)

^b 1 pre-proposal (not invited for full)

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 (**B, C, D**)

Total Award Amount: \$750,000

Subaward Amount: \$54,545

University of Chicago Climate Institute Seed Fund

July 2025-Dec 2026

Project title: The Chicago Center for Environmental and Behavioral Change to Address Psychological Impacts of Heat Exposure

Grant PI: Dr. Marc Berman

Role: Co-PI (**A, B, C, D**)

Total Amount: \$300,000

Subaward Amount: \$110,430

COMPLETED

WSU CAS Research Enhancement Opportunity (REO)

Summer 2025

Award Amount: \$5,000

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 CookAmount: \$25,000UNIVERSITY 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

Fall 2015, Winter 2017, and Spring 2020

Research & Conference Funding, Amount: \$2200

PUBLICATIONS & PRESENTATIONS

* indicates co-first authorship

h-index: 16

^ indicates mentored student

i10-index: 21

PEER-REVIEWED ARTICLES

1. National Academies of Sciences, Engineering, and Medicine. (2026). [Health and Safety Impacts of Aircraft Cabin Temperatures](#). *The National Academies Press*. (Served as an authoring committee member).
2. **Meidenbauer, K. L.**, Luna, C. M., Stilson, P. J. ^, Santiago, I. M. ^, Cook, D., Schmitter-Edgecombe, M. (2026). [Temperature discomfort impairs everyday cognition: A pilot study using smartwatch-based ecological momentary assessment](#). *Environmental Research Communications*.
3. Dorri Sedeh, S.^, Kosonogov, V., Kerimova, N., **Meidenbauer, K. L.**, Klucharev, V. (2026) [How Virtual Urban Green Spaces Influence Stress Recovery and Risk-Taking](#). *Frontiers in Psychology*.
4. Santiago, I. M.^, Freeman, T. R. ^, Lutz, E. T. H. ^, Stilson, P. J. ^, & **Meidenbauer, K. L.** (2025). Does empathy mediate the relationship between personality and nature connectedness? A replication of DiFabio and Kenny (2021) in a representative U.S. sample. *Stage 1 registered replication accepted in principal at Journal of Personality*.
5. Schertz, K. E.*, **Meidenbauer, K. L.***, Freeman, T. R.^, Santiago, I. ^, Janey, E., Gehrke, K., ... Berman, M. G. (2025). [Identifying qualities and amenities associated with subjective cognitive restoration and improved affect in urban parks](#). *Journal of Environmental Psychology*.
6. Stute, K., Gossa, L., ... **Meidenbauer, K. L.**, et al. (2025). [The fNIRS Glossary Project: A Consensus-based Resource for Functional Near-Infrared Spectroscopy Terminology](#). *Neurophotronics*.
7. **Meidenbauer, K. L.**, Schertz, K. E., Janey, E., Stier, A., Samtani, A. L., Gehrke, K., Tucker, R., Hasan, M., & Berman, M. G. (2025). [Evidence for environmental influences on impulsivity and aggression](#). *Urban Forestry and Urban Greening*.
8. 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*.

9. **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*.
10. 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*.
11. 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*, e1252232024
12. 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.
13. **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*.
14. **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](#). (*authors contributed equally) *Journal of Personality*, 91(1), 413-425.
15. Talen, E., Choe, K. W., Akcelik, G. N., Berman, M. G., & **Meidenbauer, K. L.** (2023). [Street design preference: an on-line survey](#). *Journal of Urban Design*, 1-24.
16. 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](#). (*authors contributed equally), *Cortex*, 154, 62-76.
17. **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.
18. 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.
19. **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.
20. **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.
21. **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.
22. **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.
23. Decety, J., **Meidenbauer, K. L.**, & Cowell, J. M. (2018). [The development of cognitive empathy and concern in preschool children: A behavioral neuroscience investigation](#). *Developmental Science*, e12570.

24. **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.
25. 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.
26. **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.
27. 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

28. Shin, W., Choe, K. W., Ahn, J., Sul, S., & **Meidenbauer, K. L.** (2024) The rich get richer: How economic affluence influences challenge-seeking behavior. https://osf.io/preprints/psyarxiv/sugeq_v1
29. Michael, A., Chen, C., ..., **Meidenbauer, K. L.**, et al. (2024, November 14). Climate Change and Brain Health: Current Insights and Emerging Evidence. *Submitted to Nature Mental Health*
30. Galliard, E. P., Rim, N., **Meidenbauer, K. L.**, Fan, S., Choe, K. W., & Berman, M.G. (2025). Valid and Reliable Rating Data in Less Time with the Fast Image Rating Experiment. https://osf.io/preprints/psyarxiv/v3n5a_v1
31. **Meidenbauer, K. L.***, Pourkhalili, S.*^, Schertz, K., Janey, E.A., Berman, M.G., & (2025). Sensitive to what? Environmental sensitivity primarily amplifies affective responses to features of the social rather than physical environment . https://osf.io/preprints/psyarxiv/7zdak_v1
32. **Meidenbauer, K. L.***, Seccia, A., Hocker, K., Duffy-Greslo, K., Freeman, T. R. ^, Dorri Sedeh, S. ^, De la Torre, K., Ippel, S. E., Berman, M.G., & Fyfe-Johnson, A (2025). Nature is nurture: a pilot study of neural correlates of healthy cognition and environmental predictors in children attending a nature-based public school. https://doi.org/10.31234/osf.io/txewf_v1
33. **Meidenbauer, K. L.**, Freeman, T. R. ^, Stilson, P. J. ^, Hubbard, K. M. ^, Choe, K. W., & Berman, M. G.. (2026). Boiling Points: Evaluating State and Trait Predictors of Heat-induced Reactive Aggression https://osf.io/preprints/psyarxiv/a2jzf_v1
34. **Meidenbauer, K. L.**, Burrows, K., Stier, A. J., Sharma, A., & Berman, M. G. (2026). Environmental Change, Human Behavior, and the Need for Multi-Scale Integration: Lessons from Heat-Related Violence. *Submitted.*

BOOK CHAPTERS

1. 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 [*Authors contributed equally]
2. 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. *Burning up: The Hidden mental toll of rising temperatures*. Invited Distinguished Speaker Talk given at the Western Psychological Association (WPA) Annual Convention, May 1, 2026.
2. *Hot and Bothered: The Negative Psychological Impacts of Thermal Discomfort*. Talk given at the WSU Experimental Psychology Seminar Series, November 20, 2024.
3. *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.
4. *Diversifying environmental psychology research and methods*. Panelist for APA Division 34 (Society for Environment, Population, and Conservation Psychology) Webinar, July 23, 2024.
5. *The effects of heat on emotion, cognition, and more*. Talk given at the June meeting of the NeuroClimate Working Group, June, 24, 2024.
6. *Evaluating the neurocognitive benefits of attending a nature-based Chicago school*. Talk given at the UChicago fNIRS User Group Meeting, April 18, 2024
7. *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.
8. *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.
9. *Mapping Environmental Disparities in Chicago: Implications for Crime and Psychological Well-being*. Talk given at DePaul University, October 28, 2022.
10. *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.
11. *Is nature only good for us because we like it?* Elmhurst College Psychology Club Research Talk, Feb 27, 2020, Elmhurst, IL.
12. *Children's environmental preferences*. 3rd annual Wolf Lake Watershed Advisory Committee Meeting, Nov 1, 2019, Whiting, IN.

POSTERS & PRESENTATIONS

1. Quinn, K., **Meidenbauer, K. L.**, Stuhlmacher, M. & Trawalter, S. (2026). *Can design features mitigate the negative impact of the built environment?* Association for Psychological Science (APS), Barcelona, Spain, May 2026.
2. Freeman, T. R.[^], Schertz, K. E., & **Meidenbauer, K.L.** (2026). *Weathering the Heat*. Association for Psychological Science (APS), Barcelona, Spain, May 2026.
3. **Meidenbauer, K. L.**, Stuhlmacher, M., Trawalter, S., & Quinn, K. (2026) *The Benefits of Nature are Constrained by Belonging*. Association for Psychological Science (APS), Barcelona, Spain, May 2026.

4. Freeman, T. R., Stilson, P. J., Hubbard, K. M., & **Meidenbauer, K. L.** (2026) *When It Gets Hot, Feeling Good Fades—Especially for High Neuroticism*, Washington State University Academic Showcase, Pullman, WA, March 2026.
5. Stilson, P. J. ^, Lutz, E.T.H., Freeman, T. R., **Meidenbauer, K. L.**, Cuttler, C. (2026) *Musing about Personality: An Examination of Conscientiousness and Use of Music as an Emotional Regulation Strategy*. Academic Showcase, March 2026 & Western Psychological Association (WPA), Tacoma, WA, May 2026
6. Hughes, Z. M. ^, Lutz, E. T. H, Freeman, T. R., **Meidenbauer, K. M.**, Cuttler, C. (2026), *Feeling Awe-Fully Better: Does Cannabis Use Impact the Effects of Awe on Changes in Affect?*. Western Psychological Association (WPA), Tacoma, WA, May 2026
7. Dorri, S. S., Fife-Johnson, A., Duffy-Greslo, K., Freeman, T.R., **Meidenbauer, K. L.** (2026, March 26th). *Assessing the neurocognitive benefits of attending a nature-based school: An fNIRS pilot study*. Washington State University Academic Showcase, Pullman, WA, March 2026 & Western Psychological Association (WPA), Tacoma, WA, May 2026
8. Allen, L.N. ^, Hughes, Z. M. ^, Freeman, T.R.^, Stilson, P. J. ^, Hubbard, K. M. ^, **Meidenbauer, K. L.** (2026), *Hot and Hasty: a Deep Dive into Impulsivity, Comfort, and Affect*. Showcase for Undergraduate Research and Creative Activities (SURCA), Washington State University, Pullman, WA, March 2026; Western Psychological Association (WPA), Tacoma, WA, May 2026
9. Hatipolgu, D.^, Freeman, T. R. ^Stilson, P. J. ^, Hubbard, K. M. ^, **Meidenbauer, K. L.** (2026). *Does Personality Make Some People More Aggressive in the Heat?* Showcase for Undergraduate Research and Creative Activities (SURCA), Washington State University, Pullman, WA, March 2026; Western Psychological Association (WPA), Tacoma, WA, May 2026
10. McKim, E.^, Stilson, P. J. ^, Schmitter-Edgecomb, M., Cook, Freeman, T.R. ^, **Meidenbauer, K. L.** (2026), *Beyond Rural-to-Urban: Examining Effects of Neighborhood Greenspace on Healthy Aging*. Showcase for Undergraduate Research and Creative Activities (SURCA), Washington State University, Pullman, WA, March 2026; Western Psychological Association (WPA), Tacoma, WA, May 2026
11. Gautney, R.^, Freeman, T. R. ^, Stilson, P. J. ^, Hubbard, K. M. ^, **Meidenbauer, K. L.** (2026). *How to Handle the Heat: Exploring Regulation Strategies in Heat Stress*". Showcase for Undergraduate Research and Creative Activities (SURCA), Washington State University, Pullman, WA, March 2026; Western Psychological Association (WPA), Tacoma, WA, May 2026
12. **Meidenbauer, K. L.**, Freeman, T.R. ^, Stilson, P.J. ^, Hubbard, K.M. ^, Berman, M. G., & Choe, K. W. (2026) *In the heat of the moment: Trait impulsivity increases reactive aggression during an experimental stress induction*. Society for Personality and Social Psychology, Chicago, IL, February 2026.
13. Freeman, T.R. ^, Stilson, P.J. ^, Hubbard, K.M. ^, & **Meidenbauer, K. L.** (2026). *Some don't like it hot: An experiment examining personality as a predictor of worsening affect when undergoing heat stress*. Society for Personality and Social Psychology, Chicago, IL, February 2026.
14. Dorri Sedeh, S. ^, Schertz, K. E., Stier, A. J., Berman, M. G., & **Meidenbauer, K. L.** (2026) *Socioeconomic and Environmental Predictors of Delay Discounting*. Society for Personality and Social Psychology, Chicago, IL, February 2026.
15. Hughes, Z. M. ^, Freeman, T. R. ^, & **Meidenbauer, K. L.** (2026) *Under the Influence: Emotion and Impulsivity in Alcohol and Cannabis Users Across Baseline and Heat Conditions*", Society for Personality and Social Psychology, Chicago, IL, February 2026.
16. Allen, L. ^, Freeman, T.R. ^, Stilson, P.J. ^, Hubbard, K.M. ^, & **Meidenbauer, K. L.** (2026). *Hot and Hasty: Linking Impulsivity and Comfort*. Society for Personality and Social Psychology, Chicago, IL, February 2026.

17. Hubbard, K. M. ^, Freeman, T. R.^, Stilson, P. J. ^, **Meidenbauer, K. L.** (2025) *Exploring the impact of temperature, personal preferences, and BMI on heat stress perception and comfort.*, Washington State Psychology Undergraduate Research Symposium, Pullman, WA, April 2025
18. Stilson., P. J. ^, Freeman, T. R. ^, Schmitter-Edgecomb, M. ^, Cook. D. J. ^, Minor, B. D. ^, **Meidenbauer, K. L.** (2025), *Feeling the Heat: Cognition, Aging, and Thermal Comfort.* WSU Psychology Undergraduate Research Symposium, Washington State University, Pullman, WA, April 2025
19. Santiago, I. M. ^, Freeman, T. R. ^, Lutz, E. T. H. ^, Stilson, P. J.^, **Meidenbauer, K. L.,** (2025) *Does empathy mediate the relationship between personality and nature connectedness? A replication of Di Fabio and Kenny (2018) in a US representative sample.* Psychology Undergraduate Research Symposium, Washington State University, Pullman, WA, April 2025
20. Wilkinson, A. G. ^, Freeman, T. R. ^, Stilson, P. J. ^, Hubbard, K. M. ^, **Meidenbauer, K. L.** (2025) *Coping or Compounding? Alcohol Use in Evaluating Response to Heat-Induced Stress.* WSU Psychology Undergraduate Research Symposium, Washington State University, Pullman, WA, April 2025
21. Doyle, A. D.^, Freeman, T. R.^, Stilson, P. J. ^, Hubbard, K. M. ^, **Meidenbauer, K. L.** (2025) *It's too hot, don't you agree? Agreeableness as a predictor of comfort and affect in heat stress.* WSU Psychology Undergraduate Research Symposium, Washington State University, Pullman, WA, April 2025
22. Hughes, Z. M. ^, Lutz, E. T. H.^, Freeman, T. R. ^, Hamilton, C. J. ^, Hubbard, K. M. ^, Stilson, P. J. ^, **Meidenbauer, K. L.** (2025, April 23rd) *Hot and Bothered: Exploring the Link Between Cannabis Consumption and Heat-Related Coping Mechanisms,* WSU Psychology Undergraduate Research Symposium, Washington State University, Pullman, WA, April 2025
23. Janey, E. A.^, Schertz, K. E., **Meidenbauer, K. L.,** & Berman, M. G. (2025) *Why who and where you are matter: how ethnic identity effects affect and belonging in the outdoors.* [Talk] Midwestern Psychological Association (MPA), Chicago, March 2025
24. Stilson, P. J.^, Freeman, T. R.^, Hubbard., K. M.^, **Meidenbauer, K. L.** (2025) *Examining the Effects of Elevated Ambient Temperature on Motivation, Cognitive Effort, and Performance.* Showcase for Undergraduate Research and Creative Activities (SURCA), Washington State University, Pullman, WA, March 2025
25. Hubbard, K. M. ^, Freeman, T. R. ^, Stilson, P. J. ^, **Meidenbauer, K. L.** (2025). *Exploring the Influence of Temperature Preferences and Acclimatization on Thermal Comfort and Perceptions in Controlled Heat Exposure.* Showcase for Undergraduate Research and Creative Activities (SURCA), Washington State University, Pullman, WA, March 2025
26. Hughes, Z. M.^, Freeman, T.R.^, **Meidenbauer, K. L.** (2025) *Exploring Nature's Influence on Impulsivity: How Greenspaces and Park Features Affect Impulsive Behaviors and Emotional Responses.* [Poster presentation], Showcase for Undergraduate Research and Creative Activities (SURCA), Washington State University, Pullman, WA, March 2025
27. Hamilton, C. J.^, Freeman, T.R.^, Stilson, P. J.^, Hubbard, K. M.^, **Meidenbauer, K. L.** (2025) *Is it hot in here? I had not noticed: Exploring psychological coping mechanisms in heat stress.* Showcase for Undergraduate Research and Creative Activities (SURCA), Washington State University, Pullman, WA, March 2025 and WSU Psychology Undergraduate Research Symposium, April 2025
28. Freeman, T.R. ^ & **Meidenbauer, K. L.** (2025). *Some can't take the heat: Exploring personality as a psychological vulnerability for negative emotional states due to heat stress.* [Talk] Graduate English Conference at the University of Idaho, March 2025
29. Freeman, T.R. ^, Schertz, K. E., Janey, E. A., Berman, M. G., **Meidenbauer, K. L.** (2025). *To standardize or not standardize? Exploring desirable park amenities and demographic factors.* Society of Personality and Social Psychology, Denver, CO, February 2025.

30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. **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.
36. **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.
37. 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.
38. 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.
39. 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.
40. **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.
41. 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.
42. 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.

43. 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.
44. 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.
45. 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.
46. 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.
47. **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.
48. **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.
49. **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.
50. **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.
51. **Meidenbauer, K. L.** (2018) *The Gradual Development of Nature Preferences*. Talk given at the University of Chicago Cognition Workshop, November 2018.
52. 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.
53. **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.
54. **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.
55. **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.
56. **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.
57. 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.

58. 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.
59. **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.
60. 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.
61. 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.
62. **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, University of Chicago</i>	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

Assistant Professor at Washington State University Psychology of Happiness (Psych 223) Cognition & Affective Bases of Behavior (Psych 592)	Fall 2024, Fall 2025, Spring 2026 Spring 2023, Spring 2024, Spring 2025
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Environmental Psychology (Psych 466)

Fall 2023, Spring 2024, Spring 2025, Spring 2026

Teaching Fellow at University of Chicago

Social Psychology

Fall 2020

Mind-I (Social Sciences Core class)

Fall 2020

Mind-II

Winter 2021

Mind-III

Spring 2021

Graduate Student Instructor at University of Chicago

Summer 2019

Cognitive Psychology

Graduate Teaching Assistant at University of Chicago

Cognitive Psychology

Spring 2018, Spring 2019

Intro to Developmental Psychology

Spring 2017

Violence in the Early Years (Public Policy Course)

Winter 2017, Winter 2018

Social Psychology

Fall 2016, Fall 2017

Teaching Intern at UW-Milwaukee

Introduction to Psychology

Fall 2010

WORKSHOPS & PROFESSIONAL DEVELOPMENT

Virtual Interdisciplinary Workshop on (Mega)Cities

June 11, 2026

Army Research Lab Funded workshop

Hosted by Utah State University & University of Central Florida

ADVANCE at WSU Workshop 2024

April 25, 2024

*Avoiding Faculty Burnout****ELEVATE Teaching Workshop***

August 16, 2023

Washington State University

ADVANCE at WSU Workshop 2023

April 26, 2023

*How to Build Communities of Inclusion, Support, and Accountability****WSU New Faculty Grant Workshop***

AY 2022-2023

Attended monthly meeting and received \$500 for completing all workshop activities

NSF Smart & Connected Communities PI Meeting

October 10-12, 2022

Arlington, VA

Advances in fNIRS Methods and Analysis Workshop

April 24-27, 2022

University of Nebraska-Omaha & Boystown Hospital

Longitudinal Structural Equation and Latent Growth Modeling

January 19-21, 2022

Virtual course through Univ Maryland, led by Greg Hancock, PhD

Structural Equation Modeling: From Beginner to Intermediate

January 3-5, 2022

Virtual course through Univ Maryland, led by Greg Hancock, PhD

RepliCATS (Collaborative Assessment for Trustworthy Science)

Facilitator, pre-AIMOS repliCATS workshop

Nov 18 – 23, 2021

Discussant, pre-SIPS repliCATS workshop

June 22 – 25, 2021

Array of Things Workshop

Argonne National Laboratory, Chicago

August 29 – 30, 2018

Advanced fNIRS Data Analysis Workshop

University of Pittsburgh, Course led by Ted Huppert, PhD

May 24 – 25, 2018

SERVICE

SERVICE TO THE PUBLIC & OUTREACH**Science Pub Talk Presenter**

October 7, 2025

- Shared research on heat's psychological effects in a community-facing talk titled "When Temperatures Rise and Tempers Flare" at Paradise Creek Brewery

High School Research Outreach

May 18, 2023

- 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

MAPSCorps Research Advisor

June – August 2022

- 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

MAPSCorps 14th Scientific Symposium Panelist

August 12, 2022

- Provided feedback on High School and College MAPSCorps student researchers' projects about social and environmental inequities in Chicago neighborhoods

Psychology Today [Verified contributor](#): Creator of [Environ-Mentality Blog](#)SERVICE TO SCIENTIFIC COMMUNITY**Federal & Private Foundation Grant Review**Reviewer for *Austrian Science Fund* Erwin Schrödinger Fellowship

January 2026

Reviewer for *Wellcome Funding: Climate & Mental Health Awards*

April 2025

Ad hoc Reviewer for *Wellcome Grant*

August 2025

Reviewer for *NIEHS Exploratory Grants for Climate Change and Health Research Center Development*

Aug 1-3, 2023

Advisory Panel Service[National Academies Committee on Aircraft Cabin Temperatures](#)

June 2025 – Feb 2026

- Member of an ad hoc committee tasked with assessing the health and safety impacts of temperatures in the passenger cabins of airlines operating under FAA
- Primary deliverable is the creation of final report on the topic which is shared with FAA, US Congress, and the general public

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*
- *Behavioral Sciences*
- *Annals of Behavioral Medicine*
- *Risk Analysis*
- *Journal of Geriatric Psychiatry & Neurology*
- *Peer Community In: Registered Reports*
- *Journal of Research in Personality*
- *JAMA Network Open*
- *Nature Health*
- *International Journal of Comparative and Applied Criminal Justice*
- *Journal of Cognitive Psychology*
- *Nature Climate Change*
- *JMIR Formative Research*

UNIVERSITY SERVICE, WSU

- Judge, 2026 SURCA (Showcase for Undergraduate Research and Creative Activities) March 23, 2026
 ADVANCE at WSU, Psychology Department Liaison (2025-present)
 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
 Qualtrics Committee (2024-present)

DEPARTMENTAL SERVICE, WSU PSYCHOLOGY

- SONA System Coordinator (2025-present)
 SONA Committee (2025-present)
 Committee in Psychology for Inclusion and Equity (CPIE) (2023 – present)
 CPIE Book club (2023 – present)
 Graduate Student Travel Awards Committee (2024- present)
 Search Committee, Career Track Faculty Hire (Undergraduate Research) 2023-2024 AY

2024 Other Service Activities:

- Created “Best practices for interviewing faculty” document based on CPIE Book Club
- Contributed to database of Minority Serving Institutions for graduate student recruitment
- Held “Daily Writing Hour” for Experimental Psychology PhD students (Weekdays 830-930 am)

UNIVERSITY OF CHICAGO SERVICE ACTIVITIES**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 STUDENT & TRAINEE AWARDS

PhD Students:

- Tiara Freeman: Marchionne Full Year Research Fellowship, 2026-2027
- Tiara Freeman: Boeing Environmental Graduate Fellowship, 2025-2026
- Erika Lutz: CAS Foundry10 Bridge Fellowship Award, Summer 2025
- Tiara Freeman: CAS Foundry10 Bridge Fellowship Award, Summer 2025
- Tiara Freeman: WSU GSPA Expo 3rd Place Poster for the Social and Physical Sciences, March 2024
- Tiara Freeman: 2023 Graduate Diversity Advancement Pathways Program (GDAPP)

Undergraduate RAs:

- Duru Hagitoplu: CAS Undergraduate Research Award, 2026-2027
- Duru Hagitoplu: Psychology Undergraduate Research Symposium 3rd Place Poster, Spring 2026
- Duru Hagitoplu: SURCA Early Career Poster Award, Spring 2026
- Lizzie McKim: SURCA Crimson Poster Award, Spring 2026
- Duru Hagitoplu: Auvil Scholars Fellowship, 2026-2027
- Zaza Hughes (Undergrad RA): College of Arts and Sciences Outstanding Senior, Psychology, Spring 2025
- Amanda Doyle (Undergrad RA): Psychology Undergraduate Research Symposium 2nd Place Poster, Spring 2025
- Camdyn Hamilton (Undergrad RA): SURCA Crimson Poster Award, Spring 2025
- Isabella Santiago (Undergrad RA): Psychology Department Research Grant, Spring 2025
- Isabella Santiago (Undergraduate RA): James A. Weir Undergraduate Research Fellowship, 2024-2025

MENTORED STUDENTS AND COMMITTEES

PhD students, Washington State University Experimental Psychology Program

- Tiara Rose Freeman (2023-present)
- Erika Lutz (co-advised with Carrie Cuttler; 2024-2025)
- Sanaz (Sunny) Dorri Sedeh (2025-present)
- Vincent Bottom (2026-present)

Thesis Committees

- Tiara Freeman (Experimental Psychology, Chair)
 - Defended T2 April 17, 2025
- Robin Rubey (Experimental Psychology, Committee member)
 - Defended T2 April 18, 2025

- Skylar Nicholson (Experimental Psychology, Committee member)
 - Defended Nov 2024
- Nicole Michol (Agriculture/Agricultural Education, Committee member)

Preliminary Exam Committees

- Erika Lutz (Experimental Psychology, Committee member)
- Jamie-Lee Rajit (Human Development, Committee member)
 - Defended April 21, 2026
- Skylar Nicholson (Experimental Psychology, Committee member)
- Nicole Whitely (Clinical Psychology, Committee member)
 - Defended P2 March 25, 2025
- Josh Stanz (Experimental Psychology, Committee member)
 - Defended P2 April 16, 2025
- Sarah Elder (Experimental Psychology, Committee member)
 - Defended P2 April 10, 2025
- Aria Petrucci (Experimental Psychology, Committee member)

Dissertation Committees

- Nicole Whitely (Clinical Psychology, Committee member)
- Josh Stanz (Experimental Psychology, Committee member)
- Sarah Elder (Experimental Psychology, Committee member)

Undergraduate Honors Theses

- Emery Yates (Evaluator)
 - Defended 11/5/2025
- Emma Reger (Evaluator)

Mentored Undergraduate RAs, SCENe Lab

- | | |
|---|---|
| • Isabella Santiago (<i>GSUR 2024</i>) [2023-present] | • Sophia Roemmich [2025-present] |
| • PJ Stilson (<i>GSUR 2024</i>) [2024-present] | • Emily Eddy [2025-present] |
| • Maddie Sherwood [2024-present] | • Anjalina Cordova-Pearson [2025-present] |
| • Kathrine Hubbard [2024-present] | • Fatima Sanchez [2025-present] |
| • Lizzie McKim (<i>GSUR 2025</i>) [2024-present] | • Duru Hatipoglu [2025-present] |
| • Reagan Gautney [2024-present] | • Fatima Valencia [2025-present] |
| • Camdyn Hamilton (<i>GSUR 2025</i>) [2024-present] | • Yanin Duarte-Acosta [2024-2025] |
| • Zaza Hughes [2024-present] | • Amanda Doyle [2024-2025] |
| • Larissa Allen [2025-present] | • Kaylee Gibbs [2023-2025] |
| • Blake Turman [2025-present] | • Abigail Wilkinson [2023-2025] |
| • Mak Lilley [2025-present] | • Jack Hermanson [2023-2024] |
| • Mason Master [2025-present] | • Darren Caruso [2023-2024] |

*GSUR- *Gerontechnology-Focused Student Undergraduate Research Experience*

Mentored Undergraduate TAs

- Psych 466: Isabella Santiago, Jetlynn Hau, Brenna Nieme, Joape Tavuki, Katie Sciarotta, Siena Vetto, Cale Fitzgerald, Sam Demianiw, Reagan Gautney, Lizzie McKim
- Psych 223: Isabella Santiago, Rebecca Macpherson, Georgia Presley, Alexa Murphy, Fatima Valencia-Alvarado

External Student Committees

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

UNIVERSITY OF CHICAGO

Mentored M.A. students and Undergraduate RAs

- 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

Podcast, TV, & 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)
- [Speaking 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)
- [CNA News Singapore](#): Mental Health Day special -Heat and Mental Health (October 7, 2024)
- [LAist Air Talk](#) (April 22, 2025) [Do April Showers Make You Feel Dour?](#)

- [*Forged and Unbroken*](#) (Oct 6, 2025; Episode 56 – Dr. Kim Meidenbauer on Heat Stress & Decision Making)

Interviews on Heat Stress and the Brain

- *The Guardian*: [Why does hot weather put me in such a bad mood?](#)
- *Science News*: [Just like humans, many animals get more aggressive in the heat](#)
- *The Atlantic*: [American Summers Are Starting to Feel Like Winter](#)
- *The Observer*: [How to stay cool: 100 ways to beat the heat](#)
- *The Guardian*: [‘Mother Nature thinks we should shut down’: Why we’re so unmotivated in the winter](#)
- *New York Times*: [Mental Health Advice for 2025](#)
- *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

- *Expiwell Researcher in Focus*: [Urban Park Quality & EMA Method](#)
- *WSU Insider*: [Older adults appear less emotionally affected by the heat](#)
- *WSU Insider*: [Feeling hot triggers impulsive behavior and irritability](#)
- *WSU Insider*: [Doctoral student Tiarå 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