

## Kimberly Lewis Meidenbauer

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[Research Gate Profile](#) | [ENL website profile](#) | [OSF Profile](#) | [Twitter](#) | [Google Scholar](#)

### ACADEMIC APPOINTMENTS

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- 2021 – present**      ***Postdoctoral Fellow***  
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  
Environmental Neuroscience Lab, Director: Marc Berman

### EDUCATION

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- 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 INTERESTS

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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 cognition, emotion, and social behaviors. I ***combine behavioral and neuroimaging methods*** (fNIRS, EEG, and fMRI) to study psychological processes at multiple levels. I'm also very interested in ***task development***, adapting existing methods for use in online experiments, and using ***multivariate approaches*** in statistical analysis.

## PUBLICATIONS (CONTRIBUTIONS LISTED ACCORDING TO CREDIT)

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### PEER-REVIEWED ARTICLES

1. **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.

<https://doi.org/10.1016/j.neuroimage.2021.117795>

*Contributions: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Administration, Software, Supervision, Visualization, Writing - original draft, Writing - review & editing*

2. **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.

<https://doi.org/10.1016/j.jenvp.2020.101498>

*Contributions: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Resources, Software, Visualization, Writing - original draft, Writing - review & editing*

3. **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. <https://doi.org/10.1016/j.mex.2019.08.002>

*Contributions: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Admin, Resources, Software, Supervision, Visualization, Writing - original draft, Writing - review & editing*

4. **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.

<https://doi.org/10.1016/j.jenvp.2019.101328>

*Contributions: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Admin, Resources, Software, Supervision, Visualization, Writing - original draft, Writing - review & editing*

5. **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. <https://doi.org/10.1111/desc.12676>

*Contributions: Conceptualization, Formal Analysis, Investigation, Methodology, Project Admin, Resources, Software, Supervision, Visualization, Writing - original draft, Writing - review & editing*

6. 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. <https://doi.org/10.1111/desc.12570>

*Contributions: Formal Analysis, Methodology, Software, Visualization, Writing - original draft, Writing - review & editing*

7. **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. <https://doi.org/10.1111/cdev.12698>

*Contributions: Conceptualization, Formal Analysis, Investigation, Methodology, Project Admin, Resources, Software, Supervision, Visualization, Writing - original draft, Writing - review & editing*

8. 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. <https://doi.org/10.1152/jn.00253.2015>

*Contributions: Formal Analysis, Investigation, Methodology, Project Admin, Resources, Software, Supervision, Visualization, Writing - original draft, Writing - review & editing*

9. **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. <https://doi.org/10.1037/emo0000095>

*Contributions: Formal Analysis, Investigation, Methodology, Software, Visualization, Writing - original draft, Writing - review & editing*

10. Humphries, C., Sabri, M., **Lewis, K.** & Liebenthal, E. (2014). Hierarchical organization of auditory cortex in speech perception. *Frontiers in Neuroscience*, 8:406. <https://doi.org/10.3389/fnins.2014.00406>

*Contributions: Investigation, Methodology, Project Admin, Resources, Writing - review & editing*

### MANUSCRIPTS UNDER REVIEW

11. **Meidenbauer, K. L.**, Choe, K., Bakkour, A., Inzlicht, M., & Berman, M. G. (2021, March 22). Characterizing the role of impulsivity in costly, reactive aggression using a novel paradigm. <https://psyarxiv.com/kw3by/>

*Contributions: Conceptualization, Data Curation, Formal Analysis, Funding Acquisition, Investigation, Methodology, Project Administration, Software, Supervision, Visualization, Writing - original draft, Writing - review & editing*

12. **Meidenbauer, K. L.\***, Niu, T.\*, Choe, K. W., Stier, A. J., & Berman, M. G. (2021, August 30). Mouse movements reflect personality traits and task attentiveness in online experiments. (\*authors contributed equally) <https://psyarxiv.com/eqhdw/>

*Contributions: Data Curation, Formal Analysis, Investigation, Software, Visualization, Writing - original draft, Writing - review & editing*

13. Zhuang, C.\*, **Meidenbauer, K. L.\***, Kardan, O., Stier, A. J., Choe, K. W., Cardenas-Iniguez, C., Huppert, T. J., & Berman, M. G. (2021, September 1). Scale Invariance in fNIRS as a Measurement of Cognitive Load. (\*authors contributed equally) <https://www.biorxiv.org/content/10.1101/2021.08.31.458427v1>

*Contributions: Conceptualization, Data Curation, Formal Analysis, Investigation, Methodology, Project Administration, Software, Supervision, Visualization, Writing - original draft, Writing - review & editing*

### BOOK CHAPTERS

14. 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]

15. 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](https://link.springer.com/chapter/10.1007%2F978-3-030-69020-5_4)

## GRANTS & FELLOWSHIPS

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### UNIVERSITY OF CHICAGO

**Center for Health Administration Studies (CHAS) Seed Grant** July 2020 – 2022

Project title: “Prioritizing Urban Green Infrastructure (UGI) to Reduce Heat, Improve Human Self-control and Reduce Crime.”

Grant PI: Dr. Marc Berman

Amount Awarded: \$10,000

Role: Co-Investigator

**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

## PRESENTATIONS

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### INVITED TALKS

1. *Is nature only good for us because we like it?* Elmhurst College Psychology Club Research Talk, Feb 27, 2020, Elmhurst, IL.
2. *Children’s environmental preferences*. 3<sup>rd</sup> annual Wolf Lake Watershed Advisory Committee Meeting, Nov 1, 2019, Whiting, IN.

### POSTERS & PRESENTATIONS

1. 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 80<sup>th</sup> Scientific Session*, June 2020.
2. **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.

3. **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.
4. **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.
5. **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.
6. **Meidenbauer, K. L.** (2018) *The Gradual Development of Nature Preferences*. Talk given at the University of Chicago Cognition Workshop, November 2018.
7. 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.
8. **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.
9. **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.
10. **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.
11. **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.
12. 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.
13. 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.
14. **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.

15. 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.
16. 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.
17. **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, Midwestern Psychological Association Conference, Chicago, May 2011, and the UW-Milwaukee Undergraduate Research Symposium, Milwaukee, April 2011.

## COMMITMENT TO OPEN SCIENCE PRACTICES

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- [Open Science Framework \(OSF\) Profile](#)
- Member of University of Chicago chapter of ReproducibiliTea ([OSF site](#)) ([Twitter](#))

### Shared Datasets:

- Reactive aggression and impulsivity experiment data (MTurk) data from Meidenbauer et al. (*psyarxiv*, 2021) <https://osf.io/796rs/>
- Mouse movements & personality data in Meidenbauer, Niu, et al., (*psyarxiv*, 2021): <https://osf.io/fr74q/>
- fNIRS and behavior data (N-back task) in Meidenbauer et al. (*NeuroImage*, 2021): <https://osf.io/sh2bf/> and scale-invariance data in Zhuang, Meidenbauer et al. (*biorxiv*, , 2021): <https://osf.io/kt5cx/>
- Nature exposure, aesthetic preferences, and affect change (MTurk) data from Meidenbauer et al. (*J. Environmental Psychology*, 2020): <https://osf.io/ehk9/>

### Shared Study Materials

- Nature and Urban picture stimuli from Meidenbauer et al. (*J. Environmental Psychology*, 2019) and Meidenbauer et al., (*MethodsX*, 2019): <https://osf.io/xj3pk/>
- Picture stimuli with ratings of preference and naturalness from Meidenbauer et al. (*J. Environmental Psychology*, 2020): <https://osf.io/ehk9/>

### Shared Task Code

- N-back PsychoPy experiment from Meidenbauer et al. (*NeuroImage*, 2021): <https://osf.io/m6brz/>

- Tablet-based image rating task used to evaluate child nature preferences from Meidenbauer et al. (*J Environmental Psychology*, 2019) and Meidenbauer et al. (*MethodsX*, 2019): <https://osf.io/hc2ne/>

### Neuroimaging and Statistical Analysis Code

- Matlab code for fNIRS data Analysis using Brain AnalyzIR toolbox + Running Behavioral PLS in fNIRS and R code for behavior analysis (from Meidenbauer et al., *NeuroImage*, 2021): <https://osf.io/sh2bf/>
- Matlab code for preprocessing and running PLS analysis on fNIRS scale-invariance (Hurst exponent) data: <https://osf.io/kt5cx/>
- R code for statistical analysis of reactive aggression study in Meidenbauer, Choe, et al. (*psyarxiv*, 2021): <https://osf.io/czn43>
- Matlab & R code for running PLS on mousetracking and personality data in Meidenbauer, Niu, et al. (*psyarxiv*, 2021): <https://osf.io/fr74q/>

### Preregistrations

- Preregistration for confirmatory study of reactive aggression and impulsivity study in Meidenbauer, Choe et al. (*psyarxiv*, 2021): <https://osf.io/czn43>
- Preregistrations for effects of nature and preference on affect change in Meidenbauer et al. (*J. Environmental Psychology*, 2020): <https://osf.io/u5r4c>, <https://osf.io/u2e6n>

## RESEARCH POSITIONS

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### Environmental Neuroscience Lab (Dr. Marc G. Berman)

2017 – present

*Graduate Research Assistant & Post-doctoral Fellow*

University of Chicago

- Demonstrated the importance of considering aesthetic preferences for natural environments in the affective and cognitive impacts of nature exposure
- Conducted first empirical investigation on the development of nature preferences
- First researcher at U of C to develop an acquisition and analysis protocol for fNIRS technique & trained other researchers on how to utilize this neuroimaging modality
- Co-developed a novel, lab-based measure of impulsive aggression
- Contributed to grant proposals examining the impact of heat stress on aggressive behaviors

### Social Cognitive Neuroscience Lab & Child Neurosuite (Dr. Jean Decety) 2014 – 2016

*Graduate Research Assistant*

University of Chicago

- Designed, ran, analyzed, and published ERP studies examining children's development of moral decision making, empathy, and intergroup moral evaluation
- Conducted research on specific empathy deficits in psychopathy and how this can be identified using EEG biomarkers



**Affective Neuroscience Lab (Dr. Christine L. Larson)** 2010 – 2014*Undergraduate Researcher & Post-Baccalaureate Research Technician*

University of Wisconsin-Milwaukee

- Conducted independent research study on empathy and attention using eyetracking and behavioral measures
- Assisted on EEG studies of emotion regulation, rumination, and affective processing, analyzed the data, and presented findings at conferences
- Analyzed ERP asymmetry in rumination, and published results in academic journal

**Speech Perception Lab (Dr. Merav Sabri & Dr. Einat Liebenthal)** 2012 – 2014*Lab Manager*

Medical College of Wisconsin

- Collected and analyzed multimodal neuroimaging data (simultaneous and parallel fMRI-EEG, EEG-MEG) examining the neural substrates of speech comprehension in healthy and clinical populations

**Brain Injury Research Lab (Dr. Michael McCrea)** 2012*Research Technician*

Medical College of Wisconsin

- Ran participants through a battery of concussion testing procedures for baseline and post-injury athletes

**Inquiries in Affective Science Lab (Dr. Nakia Gordon)** 2012*Research Technician*

Marquette University

- Helped design studies testing the affective evaluation of violence towards out-groups
- Programmed EEG study on emotion processing in children with autism
- Learned and mentored undergraduates in analysis of heart-rate variability data

**F.E.A.R. Lab (Dr. Shawn Cahill)** 2010*Undergraduate Research Assistant*

University of Wisconsin-Milwaukee

- Assisted with experiments on anxiety-induced changes in social cooperation and trust

**TEACHING EXPERIENCE**

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**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
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**WORKSHOPS & PROFESSIONAL DEVELOPMENT**


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<b><i>RepliCATS (Collaborative Assessment for Trustworthy Science)</i></b>	June 22 – 25, 2021
Society for the Improvement of Psychological Science (SIPS)	
Virtual Pre-Conference Workshop, Hosted through University of Melbourne	

<b><i>Array of Things Workshop</i></b>	August 29 – 30, 2018
Argonne National Laboratory, Chicago	

<b><i>Advanced fNIRS Data Analysis Workshop</i></b>	May 24 – 25, 2018
University of Pittsburgh, Course led by Ted Huppert, PhD	

**SERVICE**


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<b>Ad-Hoc Manuscript Review (<a href="#">Publons Profile</a>)</b>	2017 – present
<i>Scientific Reports</i>	
<i>Child Development</i>	
<i>Biological Psychology</i>	
<i>Journal of Environmental Psychology</i>	
<i>Society &amp; Natural Resources</i>	
<i>Applied Psychology: Health and Well-Being</i>	
<i>Applied Science</i>	
<i>International Journal of Environmental Research and Public Health</i>	
<i>Psychophysiology</i>	

<b>U Chicago fNIRS User Interest Group</b>	2019 – present
<ul style="list-style-type: none"> <li>Co-organized monthly meeting/workshop for University of Chicago labs interested in using fNIRS</li> </ul>	

<b>Psychology Graduate Student Organization (U Chicago PGSO) Service</b>	
<ul style="list-style-type: none"> <li>Health &amp; Wellness Committee Founder and Chair</li> <li>PGSO President</li> <li>Graduate Student Mentorship Coordinator</li> <li>Social Committee Member</li> </ul>	2017 – 2020 2016 – 2017 2015 – 2016 2014 – 2016

## MENTORSHIP

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- Gray Fischer (UChicago Environmental Health Sciences Trainee, Summer 2021) Mentored research project on perceptions of air quality and crime in Chicago cities.
- 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 will be joining the U of 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.
- 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.
- 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

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### 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

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

## **PROFESSIONAL AFFILIATIONS & ACADEMIC MEMBERSHIPS**

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- Association for Psychological Science (APS)
- American Psychological Association of Graduate Students (APAGS)
- American Psychological Association (APA): Student Affiliate
- Society for Psychophysiological Research (SPR): Student Member
- Society for Neuroscience (SfN): Student Member
- Society for Research in Child Development (SRCDD): Student Member
- Psi Chi (National Honor Society in Psychology)
- Golden Key (International Academic Honor Society)
- Phi Beta Kappa (National Academic Honor Society)
- Phi Kappa Phi (National Academic Honor Society)