

KATHRYN E. SCHERTZ

Curriculum Vitae

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ACADEMIC APPOINTMENTS

2022 Postdoctoral Research Fellow

University of Michigan, Department of Psychology
Emotion & Self Control Lab, Director: Ethan Kross

EDUCATION

2022 University of Chicago

Ph.D., Psychology (Integrative Neuroscience concentration)
Certificate in Urban Science & Sustainable Development

2019 University of Chicago

M.A., Psychology

2008 University of Pennsylvania

B.A., Cognitive Science (Cognitive Neuroscience concentration)
Magna cum laude

PUBLICATIONS

Journal Articles (contributions in accordance with CRediT)

Schertz, K.E., Bowman, J.E., Kotabe, H.P., Layden, E.A., Zhen, J., Lakhtakia, T., Lyu, M., Paraschos, O., Van Hedger, S.C., Vohs, K.D., Berman, M.G. (In press).

Environmental influences on affect and cognition: A study of natural and commercial semi-public spaces. *Journal of Environmental Psychology*.

(Contributions: conceptualization; data curation; formal analysis; investigation; methodology; visualization; writing – original draft preparation)

Schertz, K.E., Saxon, J., Cardenas-Iniguez, C., Bettencourt, L.M.A., Ding, Y., Hoffmann, H., & Berman, M.G. (2021). Neighborhood street activity and greenspace usage uniquely contribute to predicting crime. *npj Urban Sustainability*, 1, 19.

(Contributions: conceptualization; data curation; formal analysis; investigation; methodology; validation; visualization; writing – original draft preparation)

Stier, A.J., **Schertz, K.E.**, Rim, N.W., Cardenas-Iniguez, C., Lahey, B.B., Bettencourt, L.M.A., & Berman, M.G. (2021). Evidence and theory for lower rates of depression in larger US urban areas. *Proceedings of the National Academy of Sciences*, 118 (31). (Contributions: investigation; writing – review & editing)

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. (Contributions: writing – review & editing)

Schertz, K.E., Kardan, O., & Berman, M.G. (2020). Visual features influence expressed thoughts in the absence of overt semantic content. *Attention, Perception, & Psychophysics*. doi: 10.3758/s13414-020-02121-z (Contributions: conceptualization; data curation; formal analysis; investigation; methodology; visualization; writing – original draft preparation)

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, 101498. (Contributions: formal analysis; resources; writing – review & editing)

Layden, E.A., Li, H., **Schertz, K.E.**, Berman, M.G., & London, S.E. (2020). Experience selectively alters functional connectivity within a neural network to predict learned behavior in juvenile songbirds. *NeuroImage*. doi: 10.1016/j.neuroimage.2020.117218 (Contributions: investigation; writing – review & editing)

Schertz, K.E. & Berman, M.G. (2019). Understanding nature and its cognitive benefits. *Current Directions in Psychological Science*. doi: 10.1177/0963721419854100 (Contributions: conceptualization; visualization; writing – original draft preparation)

Stenfors, C.U.D., Van Hedger, S.C., **Schertz, K.E.**, Meyer, F.A., Smith, K.E.L., Norman, G.J., ... & Berman, M.G. (2019). Positive effects of nature on cognitive performance across multiple experiments: Test order but not affect modulates the cognitive effects. *Frontiers in Psychology*. doi: 10.3389/fpsyg.2019.01413 (Contributions: data curation; investigation; writing – review & editing)

Meidenbauer, K.L., Stenfors, C.U.D., 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*. doi: 10.1016/j.jenvp.2019.101328 (Contributions: formal analysis; resources; writing – review & editing)

Layden, E.A., **Schertz, K.E.**, London, S.E., & Berman, M.G. (2019). Interhemispheric functional connectivity in the zebra finch brain, absent the corpus callosum in normal ontogeny. *NeuroImage*, 195, 113-127. doi: 10.1016/j.neuroimage.2019.03.064.

(Contributions: investigation; writing – review & editing)

Van Hedger, K., Keedy, S.K., **Schertz, K.E.**, Berman, M.G., & de Wit, H. (2019). Effects of methamphetamine on neural responses to visual stimuli. *Psychopharmacology*, 1-8. doi: 10.1007/s00213-018-5156-5

(Contributions: resources; writing – review & editing)

Schertz, K.E., Sachdeva, S., Kardan, O., Kotabe, H.P., Wolf, K.L., & Berman, M.G. (2018). A thought in the park: The influence of naturalness and low-level visual features on expressed thoughts. *Cognition*, 174, 82-93. doi: 10.1016/j.cognition.2018.01.011

(Contributions: conceptualization; data curation; formal analysis; investigation; methodology; visualization; writing – original draft preparation)

Submitted Manuscripts/Pre-prints

Schertz, K.E., Kotabe, H.P., Layden, E.A., Bowman, J.E., Zhen, J., Lakhtakia, T., Lyu, M., Paraschos, O., Van Hedger, S.C., Vohs, K.D., Berman, M.G. (2022) Nature's path to thinking about others and the surrounding environment. *PsyArXiv*.

(Contributions: conceptualization; data curation; formal analysis; investigation; methodology; visualization; writing – original draft preparation)

Kardan, O., Stier, A.J., Cardenas-Iniguez, C., Pruijn J.C., **Schertz, K.E.**, Deng, Y., Chamberlain, T., Meredith, W.J., Zhang, X., Bowman, J.E., Lakhtakia, T., Tindel, L., Avery, E.W., Lin, Q., Yoo, K.; Chun, M.M., Berman, M.G., Rosenberg, M.D. (2021) Adult neuromarkers of sustained attention and working memory predict inter- and intra-individual differences in these processes in youth. *bioRxiv*.

(Contributions: investigation; visualization; writing – review & editing)

Manuscripts in Preparation

Lyu, M., **Schertz, K.E.**, Choe, K.W., Chamberlain, B.C., Qin, X., Meitner, M.J., & Berman, M.G. Taking the Scenic Route: Exploring Aesthetic Preference Using GIS-Modeled Highway Environments.

Conference Proceedings

Schertz, K.E., Kardan, O., & Berman, M.G. (2019). Visual features influence expressed thoughts in the absence of overt semantic content. [Abstract]. *Abstracts of the Psychonomic Society*, 24(p. 124). Madison, WI: Psychonomic Society.

Schertz, K.E., Kardan, O., & Berman, M.G. (2018). ReTUNE: Restoring Through Urban Nature Experience. [Abstract]. *Abstracts of the Psychonomic Society*, 23(p. 284). Madison, WI: Psychonomic Society.

Schertz, K.E., Sachdeva, S., Kardan, O., Kotabe, H.P., Wolf, K.L., & Berman, M.G. (2017). A thought in the park: The influence of naturalness and low-level visual features on expressed thoughts. [Abstract]. *Abstracts of the Psychonomic Society*, 22(p. 101). Madison, WI: Psychonomic Society.

Chrysikou, E.G., **Schertz, K.**, & Thompson-Schill, S.L. (2007). Influencing the lingering garden path effect through tasks of executive control. [Abstract]. *Abstracts of the Psychonomics Society*, 12 (p. 129). Austin, TX: Psychonomic Society.

Patents

Schertz, K.E., Kardan, O., Berman, M.G., & Kompare, T.N. Routing in Navigation Applications based on Restorative Score. (2019). *U.S. Patent Accepted No. 16/418,522*. Washington, DC: U.S. Patent and Trademark Office.

Book Chapters

Akcelik, G.N., **Schertz, K.E.**, & Berman, M.G. (2022). The influence of low- and mid-level visual features on the perception of streetscape qualities. In B. Ionescu & W. Bainbridge, *Human perceptions of visual information: Psychological and computational perspectives*. Springer.

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, *Nature and Health: Physical activity in nature*. Rutledge.

GRANTS & AWARDS

2022	Norman H. Anderson Travel Grant, University of Chicago
2020	Norman H. Anderson Travel Grant, University of Chicago
2019	Norman H. Anderson Travel Grant, University of Chicago
2018	National Science Foundation Graduate Research Fellowship
2018	University of Chicago App Challenge First Place

INVITED TALKS

The Benefits of Urban Greenspace for Cognition and Behavior. (2022, April). College of Lake County Sustainability Council Earth Week, Chicago, IL.

The Benefits of Urban Greenspace for Cognition and Behavior. (2019, April). University of Chicago-Tel Aviv University Workshop on Cities and Urbanism, Tel Aviv, Israel.

A thought in the park: The influence of naturalness and low-level visual features on expressed thoughts. (2017, August). University of Chicago Wisdom Research Forum, Chicago, IL.

CONFERENCE PARTICIPATION

Schertz, K.E., Bowman, J.E., Kotabe, H.P., Layden, E.A., Zhen, J., Lakhtakia, T., Lyu, M., Paraschos, O., Van Hedger, S.C., Vohs, K.D., Berman, M.G. (2022, May). Natural public spaces increase social and environmental thought content. Poster presented at the Association for Psychological Science Annual Meeting, Chicago, IL.

Schertz, K.E., Bowman, J.E., Kotabe, H.P., Layden, E.A., Zhen, J., Lakhtakia, T., Lyu, M., Paraschos, O., Van Hedger, S.C., Vohs, K.D., Berman, M.G. (2022, February). Socially and environmentally focused thoughts are influenced by the surrounding physical environment. Poster presented at the Society for Personality and Social Psychology Annual Meeting, San Francisco, CA.

Kardan, O., Stier, A.J., Cardenas-Iniguez, C., Pruin J.C., **Schertz, K.E.**, Deng, Y., Chamberlain, T., Meredith, W.J., Zhang, X., Bowman, J.E., Lakhtakia, T., Tindel, L., Avery, E.W., Lin, Q., Yoo, K.; Chun, M.M., Berman, M.G., Rosenberg, M.D. (2021, November). Adult functional connectivity models differentially predict sustained attention and working memory in youth. Poster presented at the Society for Neuroscience Annual Meeting, Chicago, IL.

Wohlrab, C., Restrepo, A., **Schertz, K.E.**, Berman, M.G., & Norman, G.J. (2020, October). Autonomic correlates relating mental and physical fatigue. Poster presented at the Society for Psychophysiological Research Annual Meeting, Vancouver, BC.

Schertz, K.E., Kardan, O., & Berman, M.G. (2019, November). Visual features influence expressed thoughts in the absence of overt semantic content. Poster presented at the 60th Annual Meeting of the Psychonomic Society, Montreal, QC.

Schertz, K.E., Cardenas-Iniguez, C., Saxon, J., & Berman, M.G. (2019, May). Environmental and Social Engagement Contribute Uniquely to Predicting Crime. Poster presented at the 31st Annual Convention of the Association for Psychological Science, Washington, D.C.

Schertz, K.E., Kardan, O., & Berman, M.G. (2018, November). ReTUNE: Restoring Through Urban Nature Experience. Poster presented at the 59th Annual Meeting of the Psychonomic Society, New Orleans, LA.

Layden, E.A., **Schertz, K.E.**, Berman, M.G., & London, S.E. (2018, November). Functional connectivity signatures accurately distinguish male zebra finches who have

been isolated from song during the sensitive period for vocal learning. Poster presented at the 48th Annual Meeting of the Society for Neuroscience, San Diego, CA.

Lyu, M., **Schertz, K.E.**, Choe, K.W., Chamberlain, B.C., Qin, X, Meitner, M.J., & Berman, M.G. (2018, May). Low-Level and semantic visual features predict preference in virtual environments. Poster presented at the 30th Annual Convention of the Association for Psychological Science, San Francisco, CA.

Schertz, K.E., Sachdeva, S., Kardan, O., Kotabe, H.P., Wolf, K.L., & Berman, M.G. (2017, November). A thought in the park: The influence of naturalness and low-level visual features on expressed thoughts. Poster presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, BC.

Layden, E.A., **Schertz, K.E.**, Berman, M.G., & London, S.E. (2017, November). Telencephalic song nuclei of the anesthetized zebra finch brain exhibit functional homotopy in the absence of known direct white matter projections. Poster presented at the 47th Annual Meeting of the Society for Neuroscience, Washington, DC.

Cardenas-Iniguez, C., **Schertz, K.E.**, & Berman, M.G. (2017, June). The Role of Neighborhood Greenspace on Healthcare Utilization in an Urban US Multiracial Sample. Poster presented at the AHRQ NRSA Annual Conference 2017, New Orleans, LA.

Schertz, K.E., Layden, E.A., London, S.E., & Berman, M.G. (2016, November). Functional connectivity and brain morphometry across development in zebra finches. Poster presented at the 46th Annual Meeting of the Society for Neuroscience, San Diego, CA.

Meyer, F., **Schertz, K.E.**, & Berman, M. G. (2016, May). Does interacting with nature in virtual reality restore directed attention? Poster presented at the 28th Annual Convention of the Association for Psychological Science, Chicago, IL.

Chrysikou, E.G., **Schertz, K.**, & Thompson-Schill, S.L. (2007, November). Influencing the lingering garden path effect through tasks of executive control. Poster presented at the 48th Annual Meeting of the Psychonomic Society, Long Beach, CA.

CAMPUS/DEPARTMENTAL TALKS

Environmental influences on thought content and connectedness. (2020, November). Cognition Workshop, University of Chicago.

Environmental and Social Engagement Contribute Uniquely to Predicting Crime. (2019, March). Cognition Workshop, University of Chicago.

ReTUNE: Restoring Through Urban Nature Experience. (2017, March). Cognition Workshop, University of Chicago.

TEACHING & MENTORSHIP

Behavioral Science & Public Policy (grad) – Teaching Assistant	Spring 2021
Big Data in the Psychological Sciences – Teaching Assistant	Winter 2021
Experimental Design I/II (grad) – Teaching Assistant	Spring & Fall 2020
Psychology and Neurobiology of Stress – Teaching Assistant	Fall 2019
Mentor for Students	
Senling Shu (Master's thesis)	2022
Jillian Bowman (Undergraduate, Honors thesis)	2020
Tanvi Lakhtakia (Undergraduate, Honors thesis)	2020

RESEARCH EXPERIENCE

Environmental Neuroscience Lab, University of Chicago

2017 - 2022	Graduate Research Assistant
2015 – 2017	Lab Manager/Research Assistant

SERVICE

University of Chicago Psychology	Graduate Student Organization
2021-2022	Grad Cross Talks Workshop, Organizer
2018-2019 / 2020-2021	Mentorship Program Coordinator
2018-2021	Travel & Research Committee Head
2017-2022	Travel & Research Committee Member
Chicago Area Undergraduate Research Symposium	
2018	Judge for posters

SKILLS

Languages: Expert in R. Familiar with SAS, Matlab, Python.

Data: Behavioral studies of non-clinical adult subjects; Qualtrics-based Amazon Mechanical Turk; U.S. Census data; Cell phone mobility data

Analytics: Regression (Mixed Effects, CCA), Bayesian methods, Spatial/GIS Analysis (R)

EMPLOYMENT HISTORY

Surface Warfare Officer, U.S. Navy	Pearl Harbor, HI / Norfolk, VA
2008 – 2014	

PEER REVIEW ACTIVITIES

Ad-hoc reviewer for *Scientific Reports*, *Psychological Reports*, *Ecopsychology*, *Journal of Environmental Psychology*

ORGANIZATIONS

Society for Personality & Social Psychology
Association for Psychological Science
Society for Environmental, Population, & Conservation Psychology (APA Div 34)
Psychonomic Society

REFERENCES

Marc G. Berman, PhD
Associate Professor of Psychology
Member, Neuroscience Institute
The University of Chicago
Email: bermanm@uchicago.edu

Wilma A. Bainbridge, PhD
Assistant Professor of Psychology
The University of Chicago
Email: wilma@uchicago.edu

Luis M.A. Bettencourt, PhD
Director, Mansueto Institute for Urban Innovation
Professor of Ecology & Evolution and the College
Associate Faculty, Department of Sociology
The University of Chicago
External Professor, Santa Fe Institute
Email: bettencourt@uchicago.edu