

**KATHRYN E. SCHERTZ**  
**Curriculum Vitae**

Chicago, IL  
kschertz@uchicago.edu

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**CURRENT POSITION**

**Graduate Student, University of Chicago**

Department of Psychology, Integrative Neuroscience Program  
National Science Foundation Graduate Research Fellow (2018-present)  
Advisor: Marc G. Berman, PhD

Chicago, IL  
Sept 2017 -

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**EDUCATION**

**University of Chicago**

M.A. in Psychology  
- Concentration in Integrative Neuroscience

Chicago, IL  
June 2019

**University of Pennsylvania**

B.A. in Cognitive Science  
- Concentration in Cognitive Neuroscience; Magna Cum Laude

Philadelphia, PA  
May 2008

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**PUBLICATIONS**

**Journal Articles** (contributions in accordance with CRediT)

**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)

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)

**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)

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; validation; writing – original draft preparation)

## 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.

### Book Chapters

**Schertz, K.E.**,\* Meidenbauer, K.L.,\* & Berman, M.G. (In Press). Understanding the affective benefits of interacting with nature. In E. Brymer, M. Rogerson, & J. Barton, *Nature and Health: Physical activity in nature*. Rutledge.

Akcelik, G.N., **Schertz, K.E.**, & Berman, M.G. (In Press). 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.

### Submitted Manuscripts

Stier, A.J., **Schertz, K.E.**, Rim, N.W., Cardenas-Iniguez, C., Lahey, B.B., Bettencourt, L.M.A., & Berman, M.G. (2020). Rethinking depression in cities: Evidence and theory for lower rates in larger urban areas. (Under review at *PNAS*)

### 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.

**Schertz, K.E.**, Bowman, J.E., Zhen, J., Kotabe, H.P., Layden, E.A., Vohs, K.D., Berman, M.G.. Environmental Influences on Thought Content and Connectedness.

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### AWARDS & HONORS

Norman H. Anderson Travel Grant, University of Chicago  
 Norman H. Anderson Travel Grant, University of Chicago  
 Norman H. Anderson Travel Grant, University of Chicago

January 2020  
 April 2019  
 January 2019

National Science Foundation Graduate Research Fellowship  
University of Chicago App Challenge First Place

September 2018  
May 2018

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## INVITED TALKS

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.

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## CONFERENCE PARTICIPATION

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 60<sup>th</sup> 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 31<sup>st</sup> 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 59<sup>th</sup> 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 48<sup>th</sup> 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 30<sup>th</sup> 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 58<sup>th</sup> 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 47<sup>th</sup> 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 46<sup>th</sup> 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 28<sup>th</sup> 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 48<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach, CA.

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## **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.

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## **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 Undergraduate Honors Students	
Jillian Bowman	2020
Tanvi Lakhtakia	2020

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## RESEARCH EXPERIENCE

<b>Environmental Neuroscience Lab, University of Chicago</b>	Chicago, IL
Graduate Research Assistant	Sept 2017 - present
Lab Manager/Research Assistant	Dec 2015 – Aug 2017

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## SERVICE

University of Chicago Psychology Graduate Student Organization	
Mentorship Program Coordinator	2018-2019 / 2020-2021
Travel & Research Committee Head	2018-present
Travel & Research Committee Member	2017-2018

Chicago Area Undergraduate Research Symposium	
Judge for posters	April 2018

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## EMPLOYMENT HISTORY

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

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## PEER REVIEW ACTIVITIES

Ad-hoc reviewer for *Scientific Reports*, *Psychological Reports*, *Ecopsychology*

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## ORGANIZATIONS

Psychonomic Society – Student Member  
 Association for Psychological Science – Student Member