

KATHRYN E. SCHERTZ

Chicago, IL

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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 - present

EDUCATION

University of Pennsylvania

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

Philadelphia, PA
May 2008

University of Chicago

M.A. in Social Science
- Concentration in Psychology, Integrative Neuroscience

Chicago, IL
June 2019

RESEARCH EXPERIENCE

Environmental Neuroscience Lab, University of Chicago

Graduate Research Assistant
Lab Manager/Research Assistant
Marc G. Berman, PhD, Director

Chicago, IL
Sept 2017 - present
Dec 2015 – Aug 2017

Center for Cognitive Neuroscience, University of Pennsylvania

Undergraduate Student Researcher
Sharon L. Thompson-Schill, PhD, Director

Philadelphia, PA
Jan 2007- Jan 2008

AWARDS & HONORS

Norman H. Anderson Travel Grant, \$600	Apr 2019
Norman H. Anderson Travel Grant, \$700	Jan 2019
National Science Foundation Graduate Research Fellowship	Sep 2018-Aug 2021
University of Chicago App Challenge First Place, \$7,000	May 2018
Naval Reserve Officer Training Corps National Scholarship, ~\$150,000	Sep 2004-May 2008

PUBLICATIONS

Schertz, K.E. & Berman, M.G. (2019). Understanding nature and its cognitive benefits. *Current Directions in Psychological Science*. <https://doi.org/10.1177/0963721419854100>

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

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

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: <https://doi.org/10.1016/j.neuroimage.2019.03.064>.

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

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.

PUBLISHED CONFERENCE PROCEEDINGS (peer reviewed)

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.

PRESENTATIONS

Schertz, K.E. (2019, April). *The Benefits of Urban Greenspace for Cognition and Behavior*. Talk presented at the University of Chicago-Tel Aviv University Workshop on Cities and Urbanism, Tel Aviv, Israel.

Schertz, K.E. (2019, March). *Environmental and Social Engagement Contribute Uniquely to Predicting Crime*. Talk presented at the University of Chicago, Cognition Workshop, Chicago, IL.

Schertz, K.E. (2018, March). *ReTUNE: Restoring Through Urban Nature Experience*. Talk presented at University of Chicago, Cognition Workshop, Chicago, IL.

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

POSTERS

Schertz, K.E., Kardan, O., & Berman, M.G. (2019, November). Visual features influence expressed thoughts in the absence of overt semantic content. Poster to be 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.

PRE-PRINTS/UNDER REVIEW

Layden, E.A., **Schertz, K.E.**, Berman, M.G., & London, S.E. (2019). Functional connectivity strength within the auditory forebrain is altered by song learning and predicts song stereotypy in developing male zebra finches. BioRxiv. doi: <https://doi.org/10.1101/657825>

Schertz, K.E., Kardan, O., & Berman, M.G. (2019). Visual features influence expressed thoughts in the absence of overt semantic content. PsyArXiv. doi: [10.31234/osf.io/ptxdr](https://doi.org/10.31234/osf.io/ptxdr)

EMPLOYMENT HISTORY

U.S. Pacific Fleet Headquarters, U.S. Navy	Pearl Harbor, HI
<i>Surface Warfare, Current Operations</i>	Oct 2012 – Oct 2014
Navy & Marine Corps Commendation Medal	Jun 2014

USS VELLA GULF, U.S. Navy	Norfolk, VA
<i>Fire Control Officer</i>	Jan 2011 – Sep 2012
Navy & Marine Corps Commendation Medal	Sep 2012

USS NITZE, U.S. Navy	Norfolk, VA
<i>Navigator/Anti-Submarine Warfare Officer</i>	Jun 2008 – Dec 2010
Navy & Marine Corps Achievement Medal (2)	May 2010 & Jun 2010

SKILLS

Statistics: Proficient with R and Excel. Familiar with SAS

Programming: Familiar with MATLAB, Python, and JS

Methods: Behavioral and eye tracking studies of non-clinical adult subjects; Qualtrics-based Amazon Mechanical Turk studies; GIS analysis (ArcGIS); certified to conduct TMS

PROFESSIONAL DEVELOPMENT

Exploratory Data Analysis – Coursera (Johns Hopkins Univ)

Feb 2015

R Programming – Coursera (Johns Hopkins Univ)	Jan 2015
Statistical Analysis of fMRI Data – Coursera (Johns Hopkins Univ)	Feb 2014

SERVICE

University of Chicago Psychology Graduate Student Organization	
Mentorship Program Coordinator	2018-2019
Travel & Research Committee Head	2018-present
Travel & Research Committee Member	2017-2018
Chicago Area Undergraduate Research Symposium	
Judge for posters	Apr 2018

PEER REVIEW ACTIVITIES

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

ORGANIZATIONS

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