

VT Visual Neuroscience Lab Publications

2016


[Physical Size and Spatiotopic Cues Modulate Inverted Face Representation](#) 

Brown, J. M., Cate, A. (2016). Physical Size and Spatiotopic Cues Modulate Inverted Face Representation . Presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY, USA.

2015

[Functional and anatomical properties of human visual cortical fields.](#) 

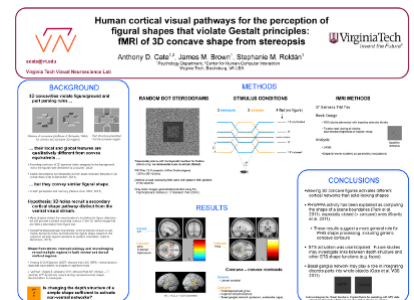
Zhang, S., Cate, A. D., Herron, T. J., Kang, X., Yund, E. W., Bao, S., & Woods, D. L. (2015). Functional and anatomical properties of human visual cortical fields. *Vision Research*, 109, Part A, 107–121. <http://doi.org/10.1016/j.visres.2015.01.015>

[Concurrent fMRI analysis of part-whole structure and subjective object norms for items from the BOSS \(Bank of Standardized Stimuli\) data set.](#) 

Cate, A., & Roldán, S. M. (2015). Concurrent fMRI analysis of part-whole structure and subjective object norms for items from the BOSS (Bank of Standardized Stimuli) data set. Presented at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL.

2014

[Human cortical visual pathways for the perception of figural shapes that violate Gestalt principles: fMRI of 3D concave shape from stereopsis.](#)



Cate, A. D., Brown, J. M., & Roldán, S. M. (2014). Human cortical visual pathways for the perception of figural shapes that violate Gestalt principles: fMRI of 3D concave shape from stereopsis. Presented at the Society for Neuroscience Annual Meeting, Washington, DC, USA.

[Neural correlates of holistic and configural visual object processing.](#)



Roldán, S. M., & Cate, A. D. (2014). Neural correlates of holistic and configural visual object processing. Presented at the Society for Neuroscience Annual Meeting, Washington, DC, USA.

[Effects of physical size on visual contour integration and global-local judgments of hierarchical forms.](#)



Brown, J. M., & Cate, A. D. (2014). Effects of physical size on visual contour integration and global-local judgments of hierarchical forms. Presented at the Society for Neuroscience Annual Meeting, Washington, DC, USA.

[Mathematical Ways of Operating: an fMRI Study with 12-year-old participants.](#)



Cate, A. D., Rosen, A., Bell, M. A., Ulrich, C., Roldán, S. M., & Norton, A. (2014). Mathematical Ways of Operating: an fMRI Study with 12-year-old participants. Presented at the Organization for Human Brain Mapping Annual Meeting, Hamburg, Germany.

2013

[Identifying Parts and Wholes in Real-World Objects: An Application of Critical Spacing](#) 

Roldán, S. M., Liu, M., De Roma, J., & Cate, A. D. (2013). Identifying Parts and Wholes in Real-World Objects: An Application of Critical Spacing. Presented at the Object Perception, Attention and Memory, Toronto, ON, Canada.

[Spatial grouping and visual enumeration performance: signal detection analysis.](#) 

Cate, A. D., & Tzur, L. (2013). Spatial grouping and visual enumeration performance: signal detection analysis. Presented at the Psychonomics Society Annual Meeting, Toronto, ON., Canada.

[Spatial and semantic memory for kinesthetic learning in large-scale visual displays.](#) 

Smith, D., Chung, H., Ragan, E., Self, J., North, C., & Cate, A. D. (2013). Spatial and semantic memory for kinesthetic learning in large-scale visual displays. Presented at the Society for Neuroscience, San Diego, CA.

2012



Cate, Herron et al. 2012

[Intermodal attention modulates visual processing in dorsal and ventral streams.](#)

Cate, A. D., Herron, T. J., Kang, X., Yund, E. W., & Woods, D. L. (2012). Intermodal attention modulates visual processing in dorsal and ventral streams. *NeuroImage*, 63(3), 1295–1304.

<http://doi.org/10.1016/j.neuroimage.2012.08.026>



O'Neil, Protzner et al. 2012

[Distinct patterns of functional and effective connectivity between perirhinal cortex and other cortical regions in recognition memory and perceptual discrimination.](#)

O'Neil, E. B., Protzner, A. B., McCormick, C., McLean, D. A., Poppenk, J., Cate, A. D., & Köhler, S. (2012). Distinct patterns of functional and effective connectivity between perirhinal cortex and other cortical regions in recognition memory and perceptual discrimination. *Cerebral Cortex (New York, N.Y.: 1991)*, 22(1), 74–85. <http://doi.org/10.1093/cercor/bhr075>



Kang, Herron et al. 2012

[Hemispherically-Unified Surface Maps of Human Cerebral Cortex: Reliability and Hemispheric Asymmetries.](#)

Kang, X., Herron, T. J., Cate, A. D., Yund, E. W., & Woods, D. L. (2012). Hemispherically-Unified Surface Maps of Human Cerebral Cortex: Reliability and Hemispheric Asymmetries. *PLoS ONE*, 7(9), e45582.

<http://doi.org/10.1371/journal.pone.0045582>



[Cortical surface-based meta-analysis of human visuotopic regions from published stereotaxic coordinates.](#)

Cate, A., Herron, T., Kang, X., & Woods, D. (2012). Cortical surface-based meta-analysis of human visuotopic regions from published stereotaxic coordinates. Presented at the Vision Sciences Society Annual Meeting, Naples, FL. In *Journal of Vision* (Vol. 12, pp. 523–523). Naples, FL.
<http://doi.org/10.1167/12.9.523>

2011



Cate, Goodale & Köhler 2011

[The role of apparent size in building- and object-specific regions of ventral visual cortex.](#)

Cate, A. D., Goodale, M. A., & Köhler, S. (2011). The role of apparent size in building- and object-specific regions of ventral visual cortex. *Brain Research*, 1388, 109–122.
<http://doi.org/10.1016/j.brainres.2011.02.022>



Woods, Herron et al. 2011

[Phonological processing in human auditory cortical fields.](#)

Woods, D. L., Herron, T. J., Cate, A. D., Kang, X., & Yund, E. W. (2011). Phonological processing in human auditory cortical fields. *Frontiers in Human Neuroscience*, 5, 42.
<http://doi.org/10.3389/fnhum.2011.00042>



[Part-whole integration of 2D shapes in the hippocampus and the basal ganglia.](#)

Cate, A., Kang, X., Herron, T., & Woods, D. (2011). Part-whole integration of 2D shapes in the hippocampus and the basal ganglia. Presented at the Vision Sciences Society Annual Meeting, Naples, FL. In *Journal of Vision* (Vol. 11, pp. 1094–1094). Naples, FL. <http://doi.org/10.1167/11.11.1094>



[VAMCA: A toolbox for the visualization and metaanalysis of functional organization of the cortex using an anatomical database.](#)

Herron, T. J., Cate, A. D., Kang, X., & Woods, D. L. (2011). VAMCA: A toolbox for the visualization and metaanalysis of functional organization of the cortex using an anatomical database. Presented at the 4th INCF Congress of Neuroinformatics, Boston, MA. In *Frontiers in Neuroinformatics*. Boston, MA. <http://doi.org/10.3389/conf.fninf.2011.08.00107>

2010



Cate & Behrmann 2010

[Perceiving parts and shapes from concave surfaces.](#)

Cate, A. D., & Behrmann, M. (2010). Perceiving parts and shapes from concave surfaces. *Attention, Perception & Psychophysics*, 72(1), 153–167. <http://doi.org/10.3758/72.1.153>



Woods, Herron et al. 2010

[Functional properties of human auditory cortical fields.](#)

Woods, D. L., Herron, T. J., Cate, A. D., Yund, E. W., Stecker, G. C., Rinne, T., & Kang, X. (2010). Functional properties of human auditory cortical fields. *Frontiers in Systems Neuroscience*, 4, 155. <http://doi.org/10.3389/fnsys.2010.00155>



[Divergence modeling: Analyzing perceptual representations via stimulus similarity and information theory.](#)

Cate, A. D., Herron, T. J., & Woods, D. L. (2010). Divergence modeling: Analyzing perceptual representations via stimulus similarity and information theory. Presented at the Society for Neuroscience, San Diego, CA.



[Shape dimensions, perceptual organization and intermodal selective attention: anterior extrastriate fMRI.](#)

Cate, A., Kang, X., Herron, T., Yund, E. W., & Woods, D. (2010). Shape dimensions, perceptual organization and intermodal selective attention: anterior extrastriate fMRI. Presented at the Vision Sciences Society Annual Meeting, Naples, FL. In *Journal of Vision* (Vol. 10, pp. 1205–1205). Naples, FL. <http://doi.org/10.1167/10.7.1205>

2009



Cate, Herron et al. 2009

[Auditory Attention Activates Peripheral Visual Cortex.](#)

Cate, A. D., Herron, T. J., Yund, E. W., Stecker, G. C., Rinne, T., Kang, X., ... Woods, D. L. (2009). Auditory Attention Activates Peripheral Visual Cortex. *PLoS ONE*, 4(2), e4645. <http://doi.org/10.1371/journal.pone.0004645>



O'Neil, Cate & Köhler 2009

[Perirhinal Cortex Contributes to Accuracy in Recognition Memory and Perceptual Discriminations.](#)

O'Neil, E. B., Cate, A. D., & Kohler, S. (2009). Perirhinal Cortex Contributes to Accuracy in Recognition Memory and Perceptual Discriminations. *J. Neurosci.*, 29(26), 8329–8334. <http://doi.org/10.1523/JNEUROSCI.0374-09.2009>



Woods, Stecker et al. 2009

[Functional maps of human auditory cortex: effects of acoustic features and attention.](#)

Woods, D. L., Stecker, G. C., Rinne, T., Herron, T. J., Cate, A. D., Yund, E. W., ... Kang, X. (2009). Functional maps of human auditory cortex: effects of acoustic features and attention. *PloS One*, 4(4), e5183. <http://doi.org/10.1371/journal.pone.0005183>

Earlier





Cate & Köhler 2006

[The missing whole in perceptual models of perirhinal cortex.](#)

Cate, A. D., & Köhler, S. (2006). The missing whole in perceptual models of perirhinal cortex. Trends in Cognitive Sciences, 10(9), 396–397. <http://doi.org/10.1016/j.tics.2006.07.004>



Cate & Behrmann 2002

[Spatial and temporal influences on extinction.](#)

Cate, A., & Behrmann, M. (2002). Spatial and temporal influences on extinction. Neuropsychologia, 40(13), 2206–2225.

From:

<http://visneuro.psyc.vt.edu/> - **Visual Neuroscience**

Permanent link:

<http://visneuro.psyc.vt.edu/doku.php?id=publications:publications>



Last update: **2019/05/22 16:08**